

iTeach

www.iteachs.com

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Introduction

Designed to serve members of all types of educational institutions, iTeach is a portable interactive learning device that simplify the process of distance education. The device is controlled by a multitouch display, powered by Windows CE, and managed by a built in application that allows users to manage their classes. The user-friendly interface of iTeach displays the list of classes and options to users with respect to their rules and authority. Because mobility is a major concern for those who are interested in distance education, iTeach is equipped with a 5V rechargeable battery as well as networking technologies such as Ethernet and WiFi in order to be carried anywhere.

After turning the switch, iTeach will run and try to connect to a pre-defined server that has all classes' information. The user will either sign up for a new account or log in using their exciting account. Personal information such as social security number and school identification number are needed in order to sign up for an account. In order to maintain rules, the system divides the users into two groups (students and instructors). It checks the information provided by the users during the registration process against the information stored in the database in order to verify the identity and authority of the users.

Upon signing in, a student will have access to their classes, exams, assignments, class notes, grades and announcements. Students are also given the ability to request joining classes and modify their personal information. Similarly, users ranked as instructors are given the ability to view their classes and course materials. Additionally, instructors have the ability to create classes, add students to their classes, create and grade assignments and exams and post class notes.

Both the satisfaction and academic performance of students that are taking classes online could be improved through the use of interactive learning machine that uses web-based technologies and delivers information instantly. Moreover, interactive learning machine boosts the performance of instructors by giving them the ability to better manage class content and to better communicate with students.

Software

1- User Interface:

iTeach is powered by Microsoft Windows CE that provides common services for efficient execution of our application. Upon loading, Windows launches an application called iTeach browser that was written in C#. The application takes over the screen and disables any attempts to shut it down. Moreover, the application forbids the launch of other applications and forbids any attempts to minimize the window. These limitations are set to restrict the usage of iTeach for non-educational purposes.

While blocking attempts to run other applications, iTeach browser will try to establish a connection to the dedicated server using a secured protocol (HTTPS). The application establishes a connection by attempting to access the landing page through the common domain (<https://server.iteachs.com>). This step requires having access to the Internet. If iTeach is not connected to the Internet through WiFi or Ethernet, the application will display an error message and will keep waiting for a connection to be established.

Once connected, the application will display the landing page, which was written in PHP. Because PHP is a server side language, it uses MySQL statements to receive inputs from the user, such as username and password, and inquire the database. PHP passes inquiries to the database, receives results from the database, and then displays the results on the screen.

The landing page is also enhanced with HTML, CSS and JavaScript. HTML is used to draw the tables and set the text fields while CSS is used to colorize the page and display images. JavaScript, on the other hand, is used to verify the user inputs before sending them to the server. For instance, verifying that the social security number is 10-digit long and verifying that the user's first name does not contain any numbers.

When loaded, the landing page will ask the user to login using existing account, register for a new account or get help.

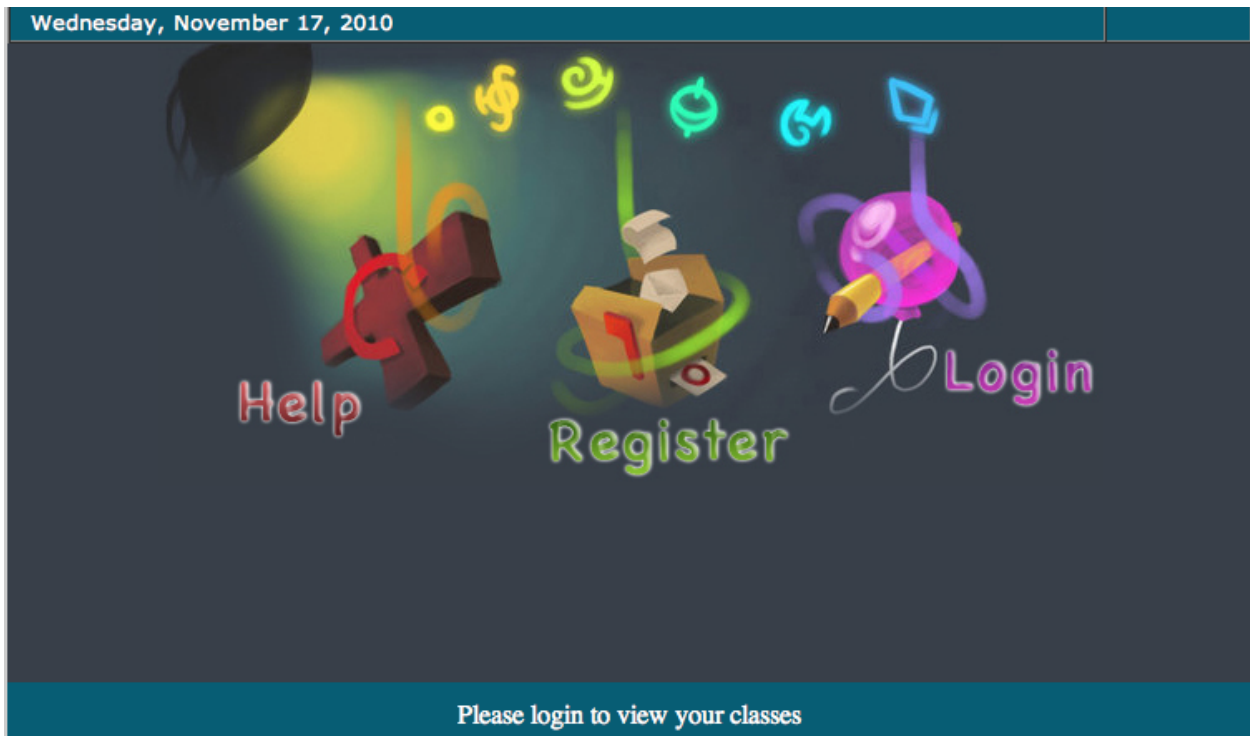


Figure 1: Login Screen

2- Handling Account:

iTeach requires new users to supply their personal information such as the school ID number and the social security number in order to create an account. Assuming that all members of the educational institution are registered in the database, the registration form will compare the information supplied by the user to the information that is stored in the database. If the given information matches the school's record, an account is created and the user is assigned a rank. A user is either ranked as a student or an instructor but not both. Login information and personal data are stored in the database for future reference. Once the registration process is done, the user can use their username and password to sign in.

Wednesday, November 17, 2010

Register

Username: (4-16 characters long)

Password: (4-16 characters long)

ID Number: (e.g. u0123456)

SSN: (numbers only, no dashes)

[NEXT](#) [Main Menu](#)

Setup your account in order to get access to your classes

Figure 2: Registration Form

Wednesday, November 17, 2010

Username

Password:

[LOGIN](#) [Main Menu](#)

Please login to view your classes

Figure 3: Login Form

3- Pages Structure:

As mentioned earlier, the default page asks the user for username and password. Assuming that instructors and students already have their own username and password, the page takes the given information and tries to locate the user in the database.

If not authenticated, the user will be redirected to an error page and then to the default page again in order to re-enter valid username name and password. However, if the username and password are valid and authenticated, the user will be directed to a new page with respect to the user rank. The new page is called a view. Instructors get redirected to the (Instructor View) page and students get redirected to the (Student View) page.

The (Instructor View) page gives instructors the ability to either explore their options or go directly to their classes. While (Options) page allows the instructor to edit preferences and change personal information, the (Classes) view simply lists all classes that belong to the instructor and gives the instructor the ability to edit classes' details. Only one instructor owns each class and the (Classes) table in the database keeps track of classes and their teachers. Database tables will be discussed later.

Like the (instructor View) page, the (Student View) page gives students the ability to either explore their options or list their classes. However the functions of these pages are extremely different. The (options) page allows students to search for classes and request joining the classes they want. The option page also gives students the ability to edit both preferences and personal information. The (Classes) page will only allow students to access the classes that they registered for.

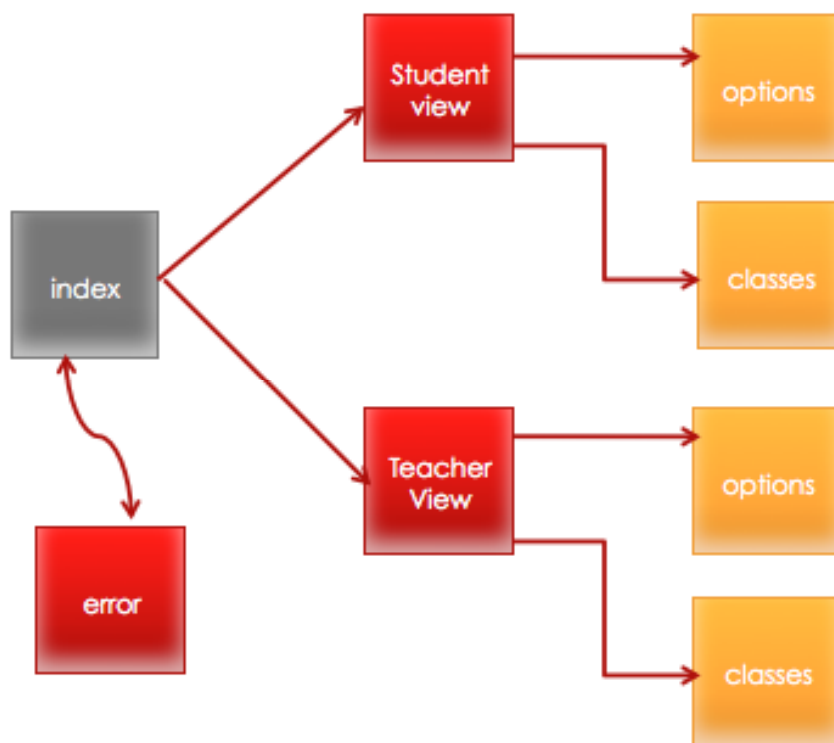


Figure 4 : An overview of the system pages

From the (Classes) page, instructors are given the ability to see classes that they are currently teaching, classes that are inactive or under construction, and classes that have been taught during previous semesters. The (Classes) page in the (Student View) will also give students the ability to access their current classes, see but not access classes that awaiting to be given access to, or access classes from previous semesters. Figure 5 below show the implementations of the (Student View) and the (Instructor View).

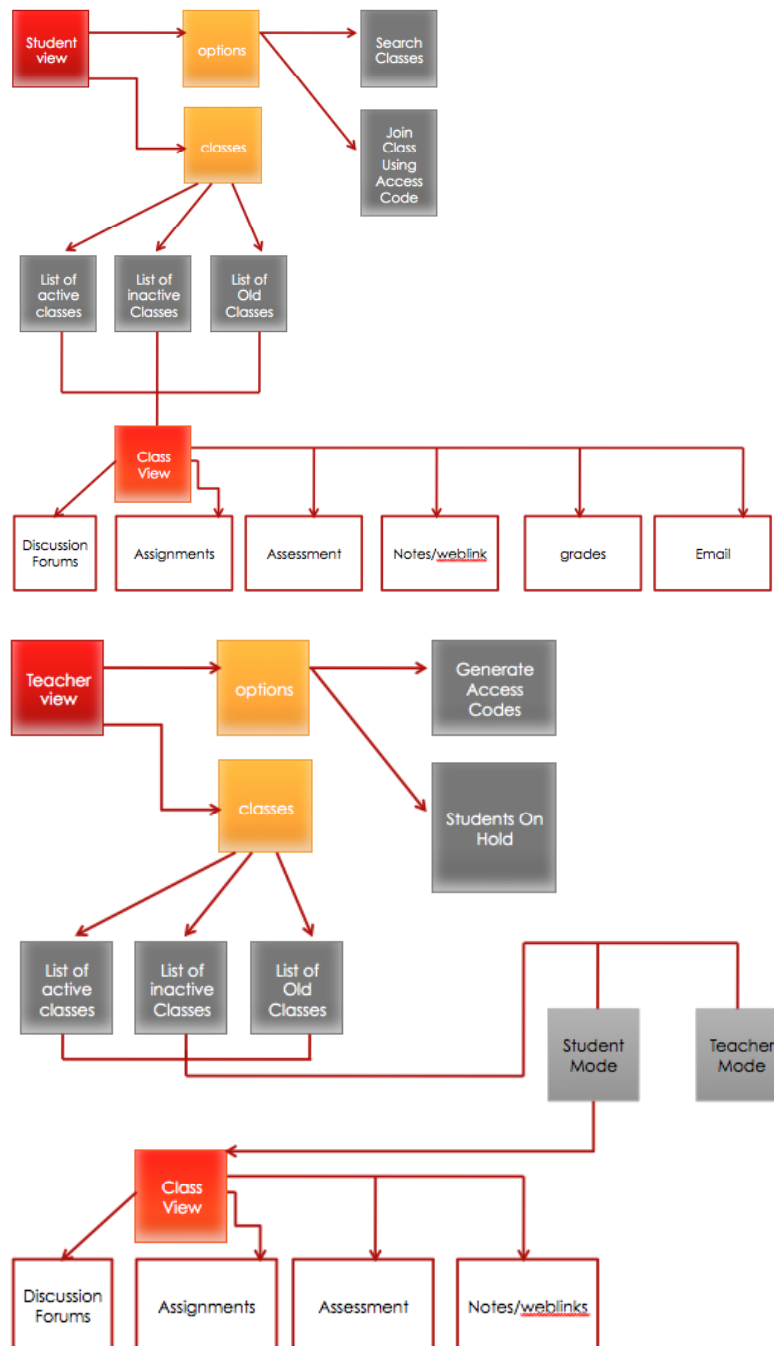


Figure 5: Student View and Instructor View

Through the instructor view, Instructors will be able to add or modify assignments through the (Assignments View), add or modify exams through the (Exams View), add new notes through the (Notes View). Additionally, they can check their email; manage students and grade assignments and assessments. The figure below illustrates the sets of views that will be granted to each instructor.

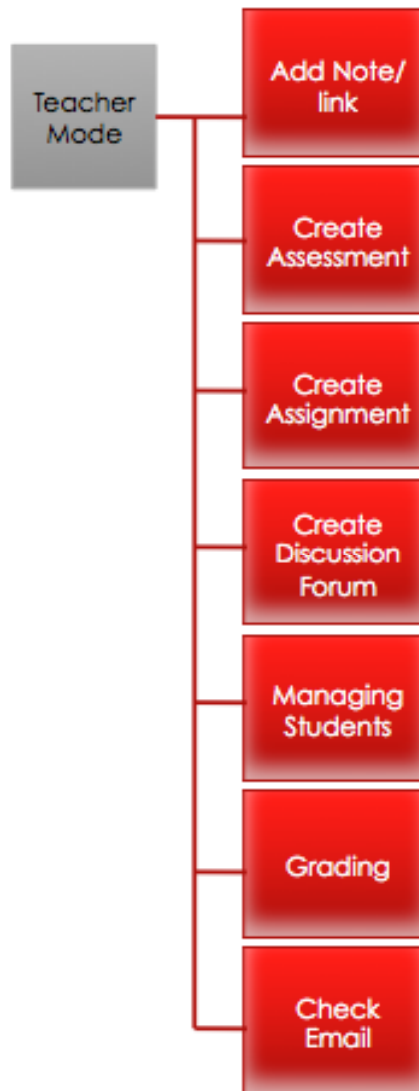


Figure 6: Detailed Instructor View

Through the student view, students will be able to do assignments through the (Assignments View), take exams through the (Exam View) and see class notes through the (Notes View). Additionally, they can check their emails and see their grades.

4- Database Design:

A. Overview

All assignments, assessments, notes, emails and other data are stored in a remote database that is part of the dedicated server. When a view wants to display specific information, it sends an inquiry to the database using a socket. The socket is an endpoint of a bidirectional inter-process communication flow across an Internet Protocol-based computer network. It uses a pre-defined pair of username and password to establish a connection between the PHP file (the View) and the database. The socket also allows the PHP file to send SQL statements and then allows the database to return a specific result based on the given information. For instance, the PHP file sends the instructor ID and the keyword “classes” in order to get a list of classes that are taught by this instructor.

Information in the database is sorted into tables. The job of the PHP file is to gather information from the database and connect them together. For instance, the table called Assignments holds the name of each assignment, starting time, ending time, maximum possible grade, and assignment description. Another table called submissions holds students submissions. When a student submits an assignment, PHP save it in the submissions table and then link it to the original assignment in the Assignments table.

B. Entity-Relationship Model (ERM)

Figure 7 shows an abstract and conceptual representation of the data-path in the database. This modeling method produces a type of conceptual schema or semantic data model of our system.

C. Logical Design:

Figure 8 shows the process of producing a detailed data model of a database. This logical data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a Data Definition Language, which was used to create the actual database.

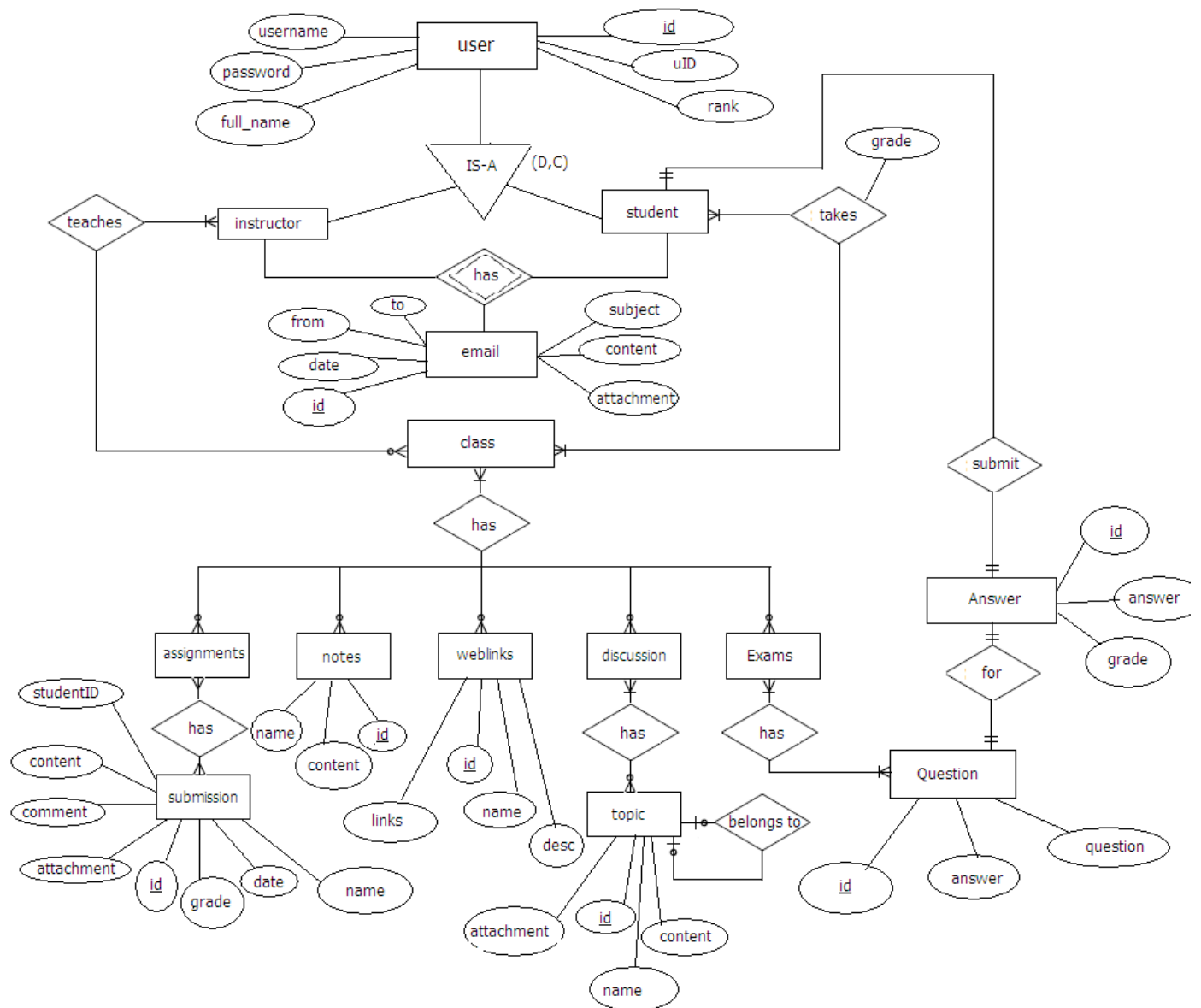


Figure: 7 Entity-Relationship Model

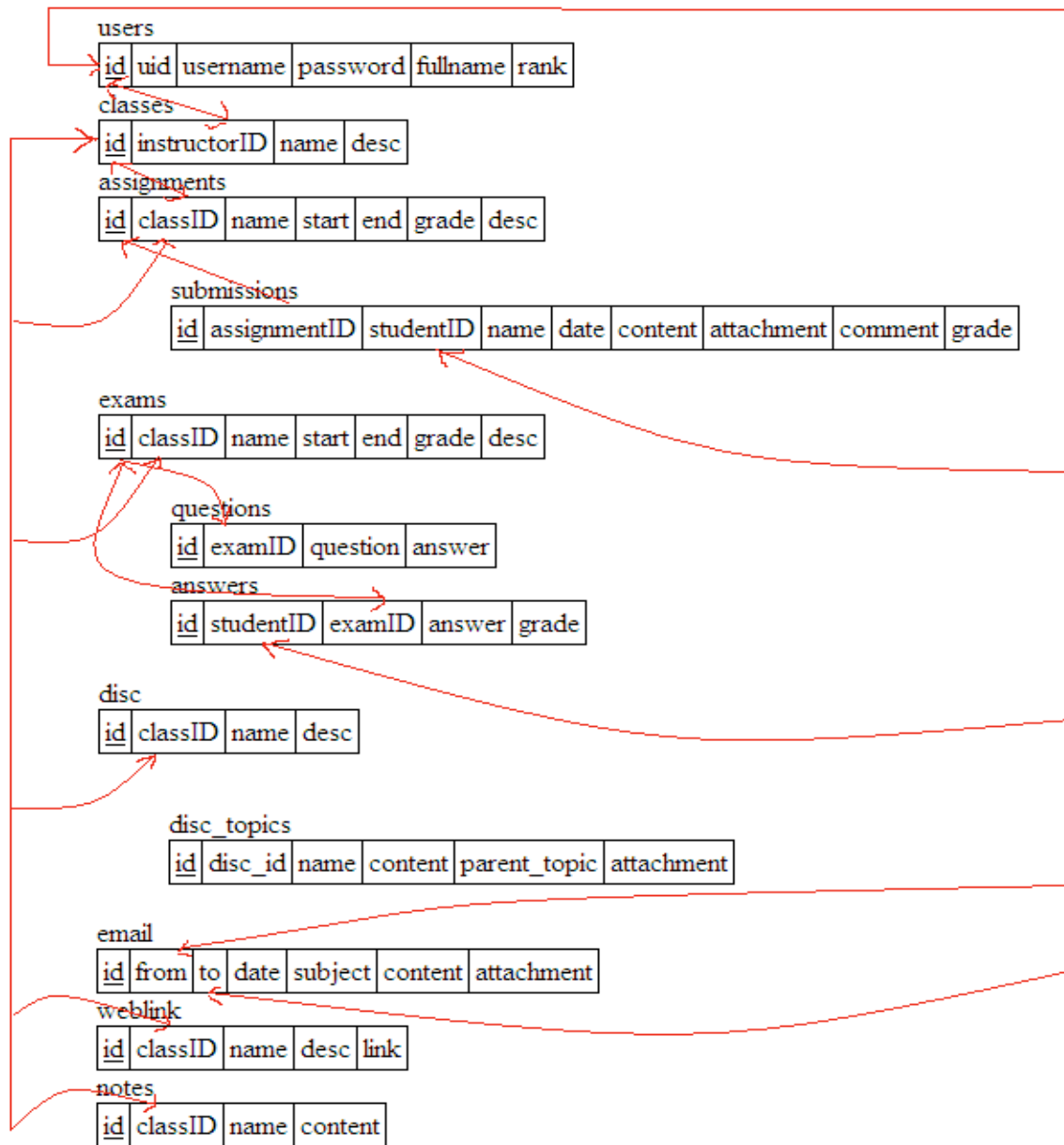


Figure 9: Logical Diagram

D. Data Dictionary:

I. Assignments Table:

	Field	Type	Collation	Attributes	Null	Default	Extra	Action							
<input type="checkbox"/>	id	int(255)			No		auto_increment								
<input type="checkbox"/>	classID	int(255)			No										
<input type="checkbox"/>	name	varchar(500)	latin1_swedish_ci		No										
<input type="checkbox"/>	start	date			No										
<input type="checkbox"/>	end	date			No										
<input type="checkbox"/>	grade	int(255)			No										
<input type="checkbox"/>	desc	varchar(5000)	latin1_swedish_ci		No										

Figure 9: Assignment Table

- id: is the primary key
- classID: is a foreign key of id located in the classes table
- name: name of assignment
- start: when is the assignment going to be available
- end: when is the assignment is due
- grade: maximum grade for this assignment
- desc: short description of the assignment

II. Submission Table (when student submit his/her assignment):

	Field	Type	Collation	Attributes	Null	Default	Extra	Action							
<input type="checkbox"/>	id	int(255)			No		auto_increment								
<input type="checkbox"/>	assignmentID	int(255)			No										
<input type="checkbox"/>	studentID	int(255)			No										
<input type="checkbox"/>	name	varchar(500)	latin1_swedish_ci		No										
<input type="checkbox"/>	date	date			No										
<input type="checkbox"/>	content	text	latin1_swedish_ci		No										
<input type="checkbox"/>	attachment	varchar(500)	latin1_swedish_ci		No										
<input type="checkbox"/>	comment	varchar(500)	latin1_swedish_ci		No										
<input type="checkbox"/>	grade	int(255)			No										

Figure 10: Submission Table

- id: is the primary key
- assignmentID: is a foreign key of id located in the assignments table
- studentID: is a foreign key of id located in the students table
- date: date of submission
- content: students submission
- attachment: URL(s) to the file(s) on server that student upload

- comment: any feedback from the instructor
- grade: grade for this submission

III. Classes Table:

	Field	Type	Collation	Attributes	Null	Default	Extra	Action						
<input type="checkbox"/>	id	int(255)			No		auto_increment							
<input type="checkbox"/>	instructorID	int(255)			No									
<input type="checkbox"/>	name	varchar(500)	latin1_swedish_ci		No									
<input type="checkbox"/>	desc	text	latin1_swedish_ci		No									

Figure 11: Classes Table

- id: is the primary key
- instructorID: is a foreign key of id located in the users table
- name: name of class
- desc: short description of the class (We're assuming that this is an online class and no location or timing needed)

IV. Exams Table:

	Field	Type	Collation	Attributes	Null	Default	Extra	Action						
<input type="checkbox"/>	id	int(255)			No		auto_increment							
<input type="checkbox"/>	classID	int(255)			No									
<input type="checkbox"/>	name	varchar(500)	latin1_swedish_ci		No									
<input type="checkbox"/>	start	date			No									
<input type="checkbox"/>	end	date			No									
<input type="checkbox"/>	grade	varchar(500)	latin1_swedish_ci		No									
<input type="checkbox"/>	desc	varchar(500)	latin1_swedish_ci		No									

Figure 12: Exams Table

- id: is the primary key
- classID: is a foreign key of id located in the classes table
- name: name of exam
- start: when is the exam going to be available
- end: when the exam is due
- grade: maximum grade for the exam
- desc: any instructions of information related to the exam

V. Questions Table:





























	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	id	int(255)			No		auto_increment	      
<input type="checkbox"/>	examID	int(255)			No			      
<input type="checkbox"/>	question	text	utf8_general_ci		No			      
<input type="checkbox"/>	answer	text	utf8_general_ci		No			      

Figure 13: Questions Table

- id: is the primary key
- examID: is a foreign key of id located in the exams table
- question: the content of the question
- answer: the right answer (Not exposed to students)
-

IV. Answers Table:




































	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	id	int(255)			No		auto_increment	      
<input type="checkbox"/>	studentID	int(255)			No			      
<input type="checkbox"/>	examID	int(255)			No			      
<input type="checkbox"/>	answer	text	utf8_general_ci		No			      
<input type="checkbox"/>	grade	int(255)			No			      

Figure 14: Answers Table

- id: is the primary key
- studentID: is a foreign key of id located in the users table
- examID: is a foreign key of id located in the exams table
- answer: student's answer
- grade for this answer

IIV. Notes Table (class notes posted by the instructor):





























	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	id	int(255)			No		auto_increment	      
<input type="checkbox"/>	classID	int(255)			No			      
<input type="checkbox"/>	name	varchar(500)	utf8_general_ci		No			      
<input type="checkbox"/>	content	text	utf8_general_ci		No			      

Figure 15: Notes Table

- id: is the primary key
- classID: is a foreign key of id located in the classes table

- name: name of note
- content: textual content

IV. Users Table (includes instructors and students):











































	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	id	int(255)			No		auto_increment	      
<input type="checkbox"/>	uid	varchar(500)	latin1_swedish_ci		No			      
<input type="checkbox"/>	username	varchar(500)	latin1_swedish_ci		No			      
<input type="checkbox"/>	password	varchar(500)	latin1_swedish_ci		No			      
<input type="checkbox"/>	fullname	varchar(500)	latin1_swedish_ci		No			      
<input type="checkbox"/>	rank	int(2)			No	0		      

Figure 16: Users Table

- id: is the primary key
- uid: campus id (uID)
- username: username needed to login
- password: password needed to login
- fullname: the name that will be displayed in the form (First-name initial last-name)
- rank: is an integer between 0 and 1 (0 = student, 1= instructor). By default, the value will be 0 for security reasons.

X. Weblink (Links to other websites that instructors provide to student):




































	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	id	int(255)			No		auto_increment	      
<input type="checkbox"/>	classID	varchar(255)	latin1_swedish_ci		No			      
<input type="checkbox"/>	name	varchar(5000)	latin1_swedish_ci		No			      
<input type="checkbox"/>	desc	varchar(5000)	latin1_swedish_ci		No			      
<input type="checkbox"/>	link	varchar(5000)	latin1_swedish_ci		No			      

Figure 17: WebLink Table

- id: is the primary key
- classID: is a foreign key of id located in the classes table
- name: name of link
- desc: description of the link
- link: the actual URL to the link

XI. Email Table

	Field	Type	Collation	Attributes	Null	Default	Extra	Action						
<input type="checkbox"/>	id	int(255)			No		auto_increment							
<input type="checkbox"/>	from	int(255)			No									
<input type="checkbox"/>	to	int(255)			No									
<input type="checkbox"/>	date	date			No									
<input type="checkbox"/>	subject	varchar(500)	utf8_general_ci		No									
<input type="checkbox"/>	content	text	utf8_general_ci		No									
<input type="checkbox"/>	attachment	varchar(500)	utf8_general_ci		No									

Figure 18: Email Table

- id: is the primary key
- from: is a foreign key of id located in the users table (sender's ID)
- to: is a foreign key of id located in the users table (receiver's ID)
- date: the sending date
- subject: the title of the email
- content: textual content of the email
- attachment: URL(s) to the file(s) on server that sender upload

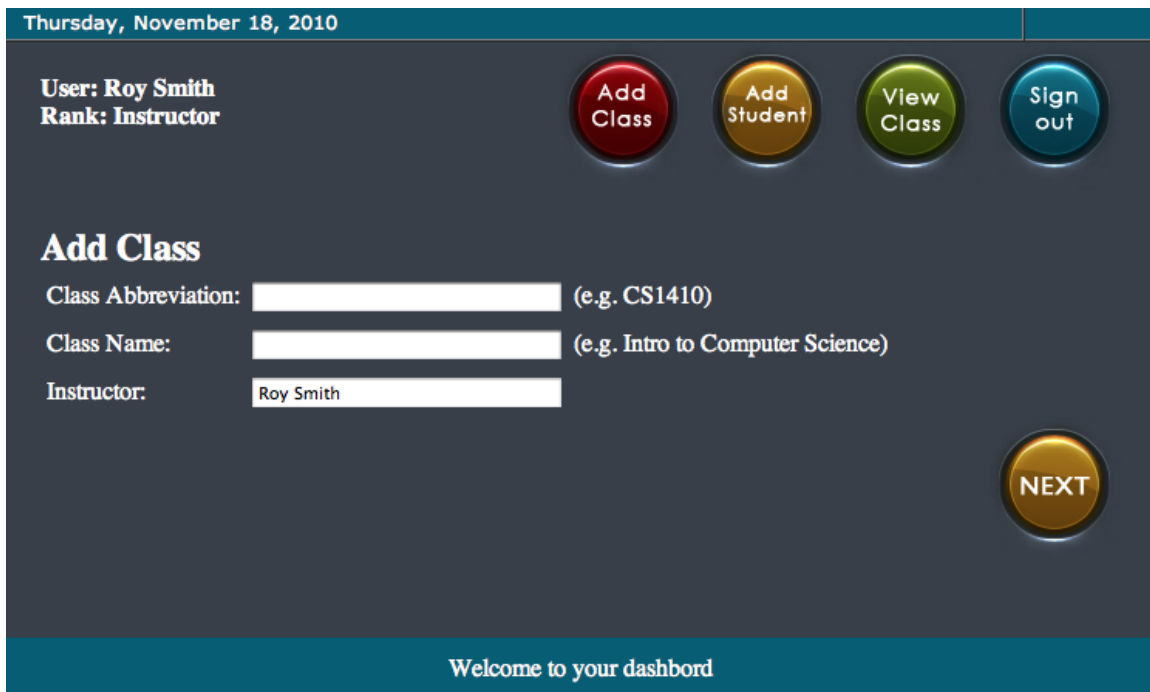
XII. Permission

	Field	Type	Collation	Attributes	Null	Default	Extra	Action						
<input type="checkbox"/>	classID	int(255)			No									
<input type="checkbox"/>	studentID	int(255)			No									

Figure 19: Permissions Table

- classID: is a foreign key of id located in the classes table
- studentID: is a foreign key of id located in the users table

5- Interface Snap-Shoots:



Thursday, November 18, 2010

User: Roy Smith
Rank: Instructor

[Add Class](#) [Add Student](#) [View Class](#) [Sign out](#)

Add Class

Class Abbreviation: (e.g. CS1410)

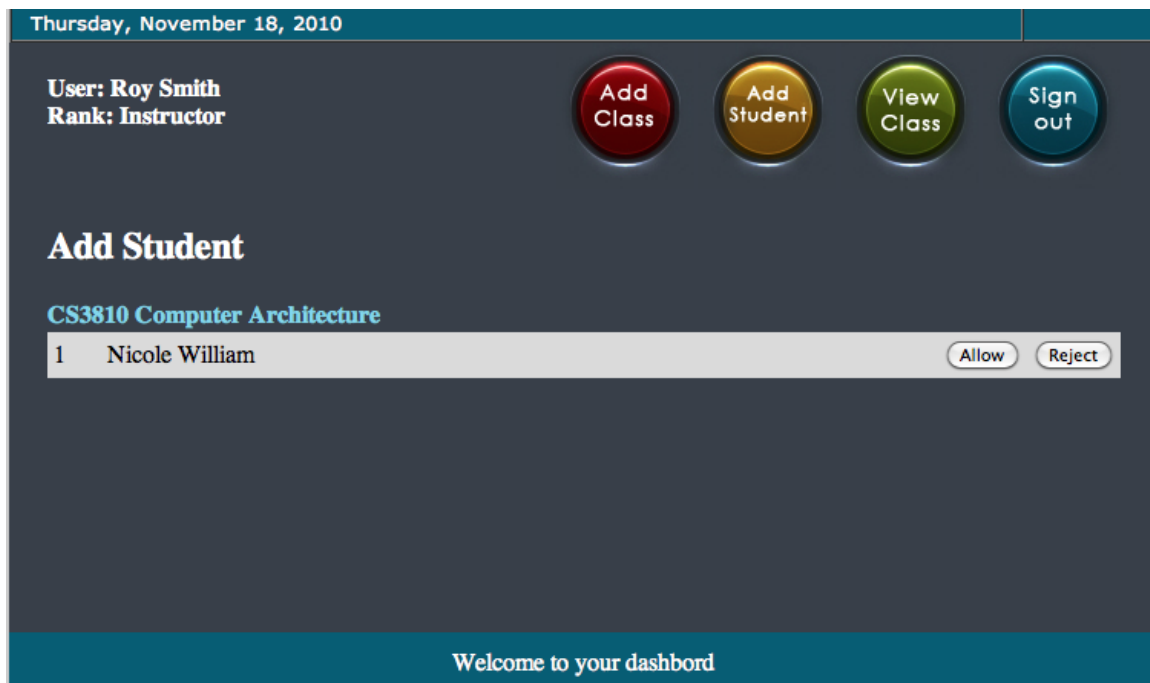
Class Name: (e.g. Intro to Computer Science)

Instructor:

[NEXT](#)

Welcome to your dashboard

Figure 20: Adding a Class (Instructor View)



Thursday, November 18, 2010

User: Roy Smith
Rank: Instructor

[Add Class](#) [Add Student](#) [View Class](#) [Sign out](#)

Add Student

CS3810 Computer Architecture

1	Nicole William	Allow	Reject
---	----------------	-----------------------	------------------------

Welcome to your dashboard

Figure 21: Allowing a Student to Join Class (Instructor View)

Thursday, November 18, 2010

User: Roy Smith
Rank: Instructor

Add Class Add Student View Class Sign out

My Classes

CS3810	Computer Architecture	VIEW	DELETE
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Welcome to your dashboard

Figure 22: List of Classes (Instructor View)

Thursday, November 18, 2010

User: Roy Smith
Rank: Instructor
Class: CS3810

Classes List Sign out

Send New Email

Dave Smith	ngknwkn	02 Sep 2010	READ	DELETE
Navid Sobhani	Hi there	29 July 2010	READ	DELETE
Edward Cole	Hi there	29 July 2010	READ	DELETE
James Sanddomair	Hi there	29 July 2010	READ	DELETE
Mike Norder	Hi there	29 July 2010	READ	DELETE
Dave Smith	Hi there	29 July 2010	READ	DELETE
Eyad Fallatah	Hi there	29 July 2010	READ	DELETE
Eyad Fallatah	Hi there	29 July 2010	READ	DELETE

Information Notes Assignments Exams Communicate Grades

Figure 23: Email & Communication (Instructor View)

Thursday, November 18, 2010

User: Roy Smith
Rank: Instructor
Class: CS3810

Classes List Sign out

B I S U | [List Icons] | [List Icons] | [List Icons] | [List Icons] | H1 H2 H3 X

Term: Fall 2010
Class Times:

Section 1: MWF 09:40 – 10:30 AM in WEB 1248
Section 2: MWF 10:45 – 11:35 AM in WEB 1248

Instructor: Rich Riesenfeld rfr@cs.utah.edu

SAVE CHANGES

Information Notes Assignments Exams Communicate Grades

Figure 24: Editing Class Information & syllabus (Instructor View)

Thursday, November 18, 2010

User: Roy Smith
Rank: Instructor
Class: CS3810

Classes List Sign out

ADD A NEW ASSIGNMENT

navidoo	Start: 01 Jan 2010 Ends: 01 Jan 2010	Grade: 50	Modify Grade Delete
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Information Notes Assignments Exams Communicate Grades

Figure 25: Managing Assignments (Instructor View)

Thursday, November 18, 2010

User: Roy Smith
Rank: Instructor
Class: CS3810

Classes List Sign out

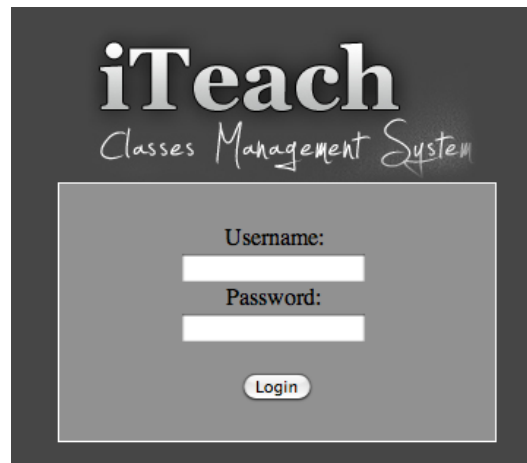
Student Name	Assignment 1	Total	%	Grade
Kim Ho	10	10	20%	E
Anna Banna	3	3	06%	E

Information Notes Assignments Exams Communicate Grades

Figure 26: Grades Sheet (Instructor View)

6- Web-Based Class Manager:

In order to allow instructors to upload their own class notes to their classes, they have to use the web-based management system that can be accessed through the following link <http://www.iteachs.com>. While file uploading is restricted to instructors only, both students and instructors can access the web-based system to update their login information and reset their passwords. Figures 27 and 28 shows the interface of the web-based system.

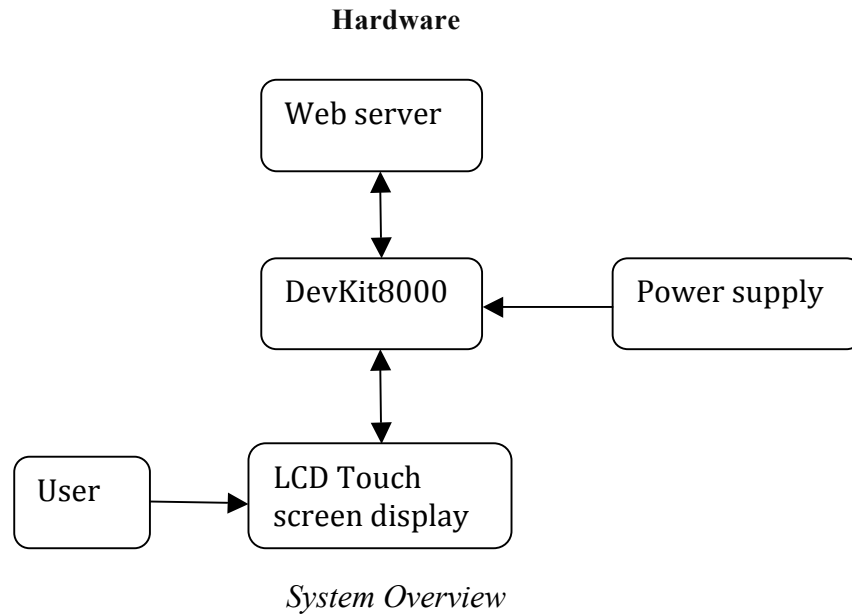


The image shows the login interface for the iTeach Classes Management System. It features a dark grey background with the 'iTeach' logo in a large, white, serif font at the top. Below the logo, the text 'Classes Management System' is written in a smaller, white, cursive font. In the center, there is a white rectangular box containing a login form. The form has two input fields: 'Username:' and 'Password:', each followed by a white rectangular input box. Below these fields is a white oval button labeled 'Login'.

Figure 27



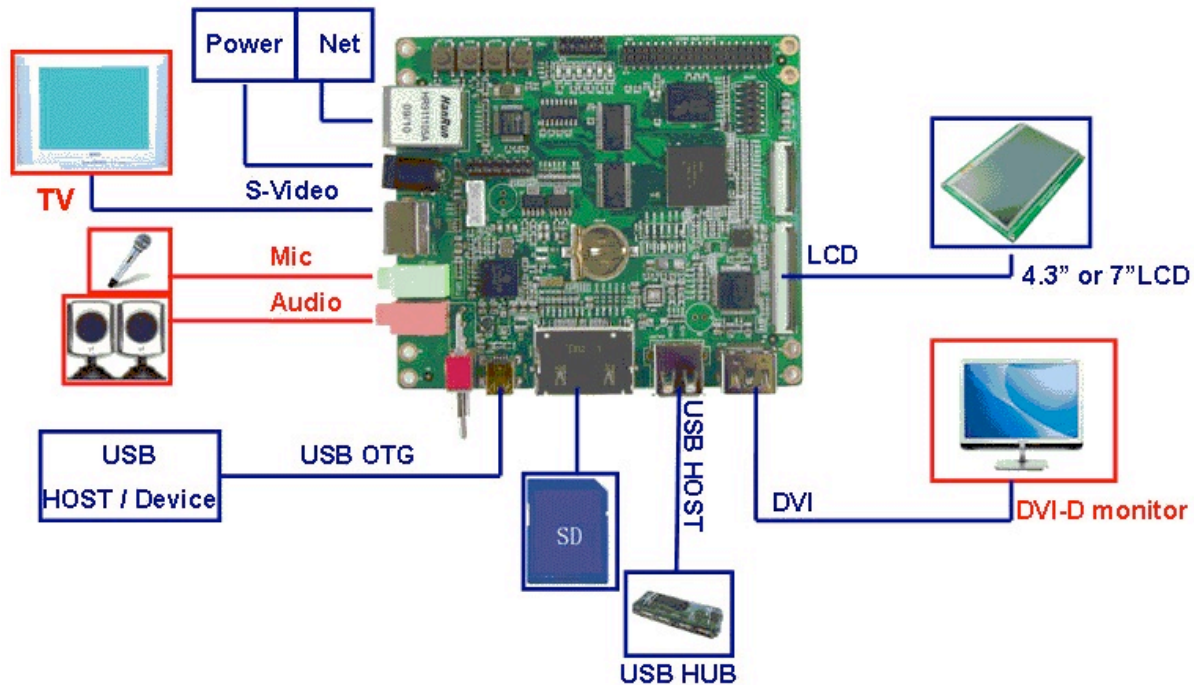
Figure 28



I. Hardware Components

iTeach is built around DevKit8000, a single board computer running Microsoft Windows CE 6.0. Along with the DevKit8000, the following hardware components will shape the gear:

1. Processor: TI OMAP3530 microprocessor with 600MHz ARM Cortex-A8 RISC Core and 412-MHz TMS320C64x+™ DSP Core.
2. Memory: 256MB DDR SDRAM, 166MHz and 256MB NAND Flash.
3. Display: LCD/Touch Screen interface (50-pin FPC connector, support resolution up to 2048*2048).
4. Audio output: One 2-channel audio output interface (3.5mm audio jack).
5. Network: One 10/100M Ethernet interface.
6. Storage: SD/MMC interface (supports 3.3V and 1.8V logic voltage).
7. Power Consumption: 0.5A @ 5V with 4.3" LCD screen.



Devkit 8000

The main reason that we choose DevKit8000 as our platform is its capability to run Windows Embedded CE 6.0 with Internet Explorer in addition to having support for Ethernet, LCD touch screen display and audio output. It is also supplied with board support packages from the manufacturer that allow us to customize the user interface that suits our special needs.

II. Dual Input Power Supply

As specified in the documentations of the DevKit8000, the board draws approximately 500mA at 5V with the use of 4.3" LCD touch screen. However, since our system uses a 7" LCD touch screen instead, we measured an actual power consumption of approximately 1A at 5V. As a result of this increased in power consumption, we had to abandon our initial design that was only capable of supplying 500 mA at 5V.

Our power supply consists of two main components as illustrated by the schematic below:

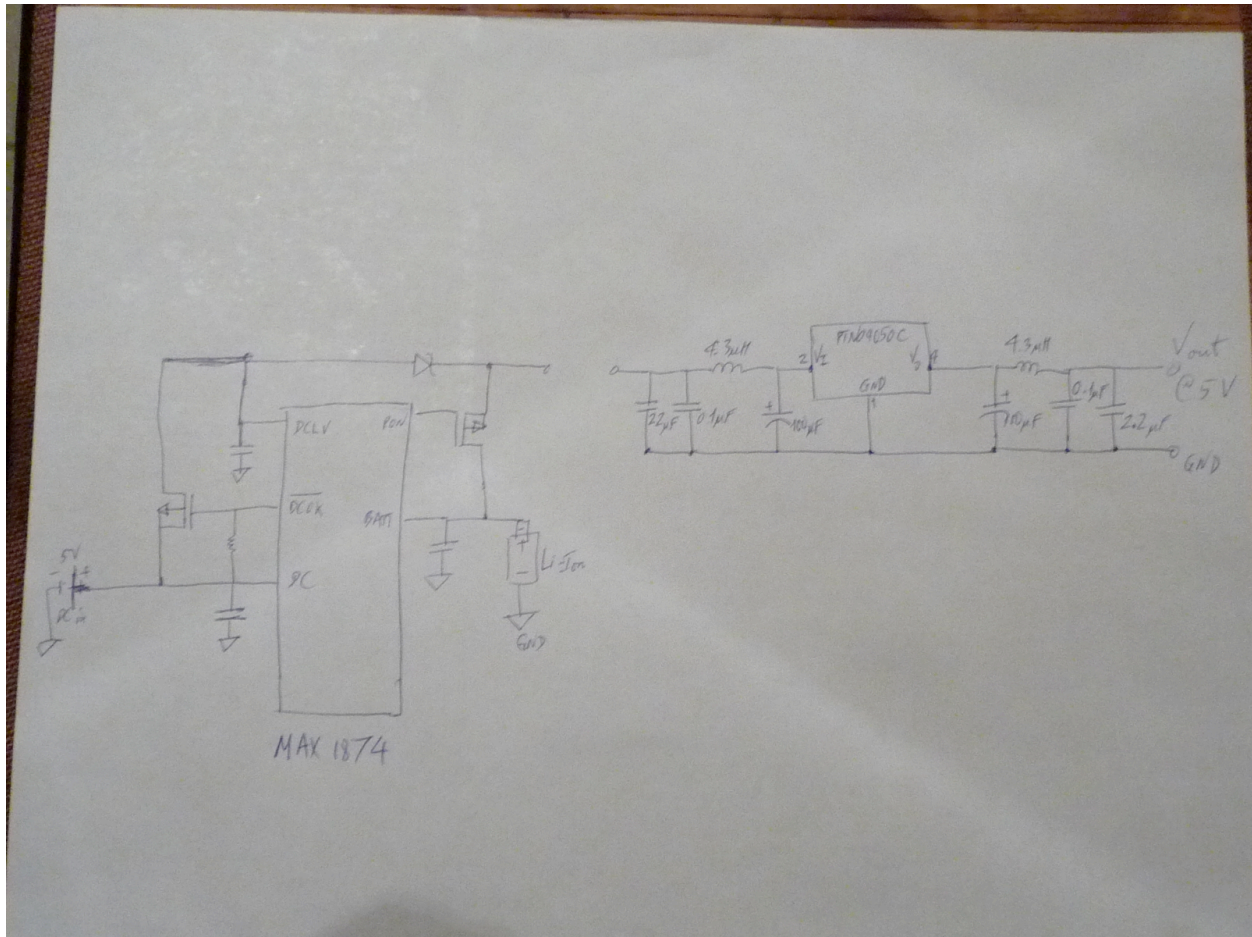


Figure 1. Dual input power supply schematic

a> Dual Input Power Selection Circuit

iTeach accepts two types of power sources: DC power and battery power. When an AC/DC adapter is plugged in, this source will power the main board and the LCD touch screen. At the same time, it will charge the Lithium-Ion battery, which remains temporarily inactive. If there is no external power, the 3.7 Volts Li-Ion battery will act as a power source. Finally, a DC-to-DC booster will supply the board with 5 Volts converted from the 3.7 Volts gained from the battery. Figure 1 below, outlines the circuit design of MAX1874.

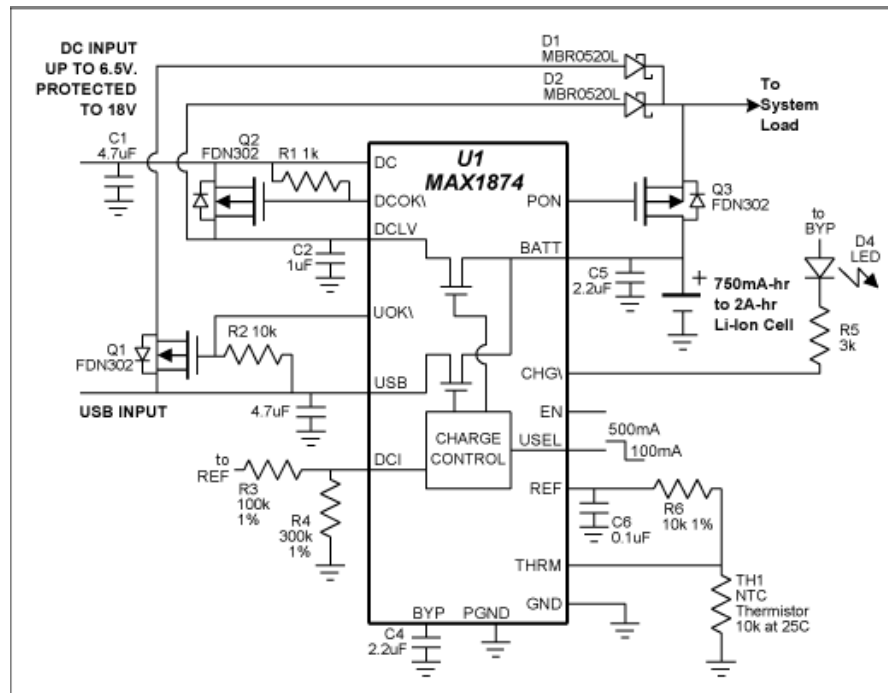
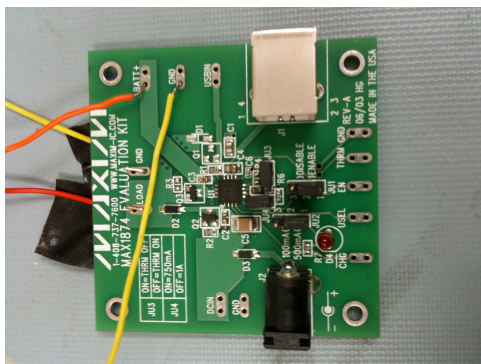


Figure 2. Dual input power selection circuit

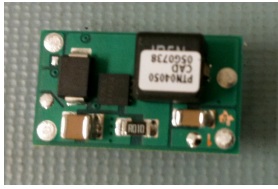


MAX1874 Evaluation kit

The figure above illustrates the inputs coming from either an AC adapter or USB ports on a computer while the outputs are connected to the system load (DevKit8000) and the Lithium Ion battery. The Maxim MAX1874 IC monitors when there is an external power supply available through the DCOK and UOK pins. When a power input is present, either UOK or DCOK goes low to turn on the appropriate MOSFET. MOSFETs Q1 and Q2 as well as diodes D1 and D2 will bypass the battery and connect the power supply to the load. Meanwhile, the battery is effectively disconnected from the load through MOSFET Q3. The Power-on (PON) pin on MAX1874 IC shuts off Q3 if an external power is active. This design allows smooth transition from battery power to external power while the device is operating.

Safety mechanisms included in this design are AC adapter over-voltage protection up to 18V and IC's built-in circuitry prevention from reverse current through battery charging path. In addition, diodes D1 and D2 also prevent reverse current from flowing between inputs via the "System Load" power path. Furthermore, Li-ion batteries that we use have built-in protection circuit that prevents over-charging as well as over-drawn current. We understand that working with Li-Ion batteries is dangerous and ensure that we have maximum protections in place.

b> DC-to-Dc Step-up Converter



PTN04050C

Lastly, a DC-to-DC step-up converter is also required in order to provide a 5V supply to the DevKit8000. The design of this step-up converter based on Texas Instruments(TI) PTN04050C is shown in figure 3.

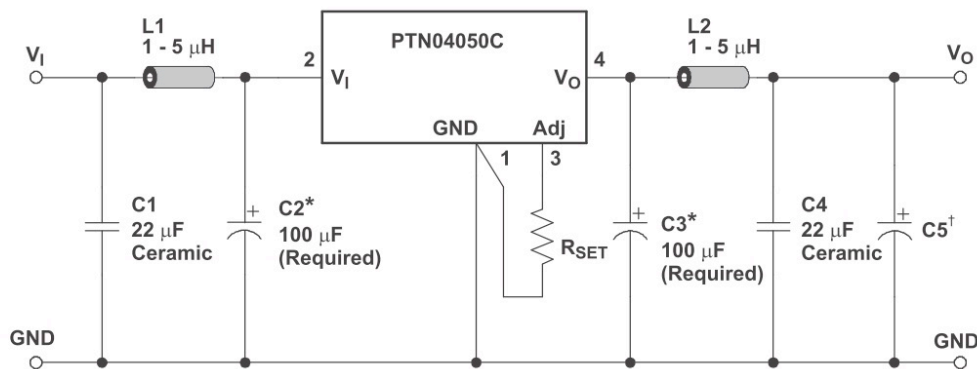


Figure 3. DC-DC Step-up Converter

As specified in its datasheet, the TI PTN04050C operates from a 2.95V to 5.5V input voltage range and the output voltage is pre-set at 5V or can be adjusted from 5V to 15V with an external resistor. One advantage of this IC is that it can provide high efficiency voltage conversion for loads of up to 12W. In contrast, our initial design based on the MAXIM608 could only give out a maximum of 500mA at 5V, which was not nearly enough for the Devkit8000 with a 7" display.

Through our testing with a 3.7V 2400mAh Lithium Ion battery, when fully charged, the battery alone can power the Devkit8000 for approximately one hour under normal operating condition. Also significant is the ability of the dual input power supply system to switch seamlessly between AC and Li-ion battery power source. The moment the adapter is unplugged from the board, the system keeps on running without any interruption and users will not even notice any differences. By measuring the voltage at the load, we were able to verify a constant 5V DC voltage with just minimal amount of ripple as illustrated in the waveform below.

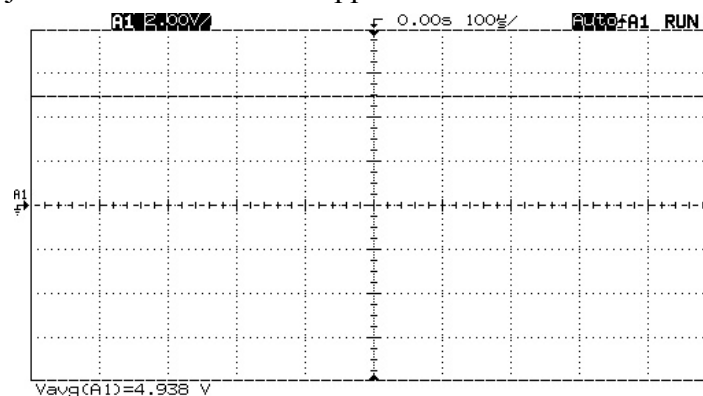


Figure 4. Load voltage waveform

Lesson Learned

One of the most valuable lessons we have learned from designing a dual input power supply is to understand exactly how each individual component operates from the manufacturer datasheets. We made the mistakes of overlooking the correct amount of power that our initial design using the MAX608 IC was able to supply. Although our boost converter was able to provide 5 Volts at output under no load, the actual measurements were drastically below 5V under heavy load. If we had known this, we could have saved a lot of time and money and would be able to finish the hardware sooner.

Another important lesson in building our power supply is to be aware of the specifications from the manufacturers. Although we closely followed their recommended design, we were never able to obtain the desired results. If we were not so lucky in finding a new implementation, we would still stuck at questioning why it did not work as expected.

Conclusion

To be completed in final report.

Acknowledgements

We would like to thank Dr. Al Davis for his tremendous technical help, guidance and patience that are an invisible but integral part of our project.

Bibliography

- 1- DevKit8000 product website
(<http://www.embedinfo.com/english/product/devkit8000.asp>)
- 2- Maxim MAX1874 specifications (http://www.maxim-ic.com/quick_view2.cfm/qv_pk/4005)
- 3- Texas Instruments PTN04050C specifications
(<http://focus.ti.com/docs/prod/folders/print/ptn04050c.html>)
- 4- Maxim MAX608 specifications (http://www.maxim-ic.com/quick_view2.cfm/qv_pk/1252/t/al)

Appendix A
Bill of Materials

Product	Manufacturer	Cost
Devkit8000 (including 7" LCD and Wifi module)	Embest Info & Tech	\$343
PTN04050C	Texas Instruments	Free sample
MAXIM1874 Evaluation Kit	Maxim Integrated Products	\$75
4.3 μ H inductors	Purchased at Digikey.com	\$4 per 2 units
100 μ F OSCON capacitors	Toshiba (purchased on Ebay)	\$9 per 8 units
2.2 μ F and 0.1 μ F ceramic capacitors	Purchased at ECE Stockroom	\$5
Tenergy 3.7 Volts Lithium Ion Batteries	Purchased at BatteryJunction.com	\$26 per set of 2
Center positive connector cable	Purchased at RA-Elco	\$3

Vendor Websites:

Texas Instruments: www.ti.com

Embest: www.embedinfo.com/English/index.asp

Maxim: www.maxim-ic.com

Digikey: www.digikey.com

Appendix B User-Manual:

If you are student, in order for you to be able to use iTeach you need to register but if you are a teacher, accounts get created by school for you. So the following information shows exactly how students can use iTeach.

How to register:

For creating the account, follow the following steps:

- 1) Go to www.iteachs.com
- 2) Click Software Demo
- 3) Click on Register
- 4) Enter the following information and click on Next
 - 1) A username that has length of between 4 and 16
 - 2) A password that has length of between 4 and 16
 - 3) The ID number that your school gave
 - 4) Your Social Security

How to log in: If you already have an account with iTeach, follow these steps:

- 1) Go to www.iteachs.com
- 2) Click Software Demo
- 3) Click on Login
- 4) Enter your username and password
- 5) Click on Login

How to see the list of your classes:

There are two cases that you see the list of your classes.

- 1) Just login in and the first page you see is the list of classes you have joined and have been approved by the teacher
- 2) If you are under a class, just click on Classes List.

How to add a class:

In order to add a class, you want to join the class and you need to get approve by the teacher who is teaching that class, so, do the following steps:

- 1) Do the Login
- 2) One you are logged in, click on Join Class
- 3) Click JOIN for every classes you would like from the list that is available on the page

How to view your classes:

You can only see the classes that you have joined and the teacher has approved you. If you have the all previous conditions, do the followings steps to see your classes:

- 1) Do the Logging
- 2) Once you are logged in, you see your classes.

If you are under other sections of the iTeach, all you have to do is to click View Class and you can see the list of your classes.

How to see the content of your class:

If you are signed in iTeach, you can see the list of the classes you are registered in the first page. Now all you have to do is to click View button the right of the name of the class.

How to see your grades:

One you can see the content of the class; click Grades at the bottom of the page to see your grade.

How to see your assignments:

One you can see the content of the class; click Assignments at the bottom of the page to see the list of the assignment you have.

How to do your assignment:

Once you can see your assignment, click on Do Assignment at the right side of that pacific homework.

How to know if homework is submitted or not:

The assignments that are submitted have a checkmark at their left side and “Do Assignment” button wouldn’t be available to click.

How to email other people:

- 1) Click on Communicate
- 2) Click on Send New Email
- 3) Select the receiver and write a subject
- 4) One you are done with content of your email, just click Send

How to see the list of exams you have taken or need to take:

To see the list, click on Exams

How to take the exam:

One you can see the list of exams you need to take, just click on Take Exam at the right side of the exam you want to take.

How to know if you have taken the exam:

If you have taken the test the will be a checkmark at the left of the exam but if you have not, there will be X at the left of your test. You also can notice that “Take Exam” button will not be available

How to see class notes and lectures:

When you can see the context of the class, just click on Notes and you can see the list of notes that is available for you to look. To see them, click on Show.

How to see the class syllabus:

Once you are logged in, click on View for the class you want to see and you will be forwarded to your class which its first page shows the document of the class syllabus. But if you are under other section of the section, click on Information and you will be forwarded to the syllabus.

Appendix C Software Code

Class.php

```

<?php
include 'includes/session.php';
include 'includes/config.php';
include_once 'includes/template.php';

$conn = mysql_connect($dbhost, $dbuser, $dbpass);
mysql_select_db($dbname);

$id = $_SESSION['id'];
$currentRank = $_SESSION['rank'];
$action = $_GET['action'];

// 1
if(($action == "join")&&($currentRank == 0))
{
    $cid = $_GET['id'];
    mysql_query("INSERT INTO requests VALUES ('$cid', '$id')");
    echo "
    <script>alert('Your request to join the class was sent to the
instructor and is awaiting to be approved');</script>
    <meta http-equiv=\"refresh\" content=\"0;url=view.php\">
    ";
}

// 2
else if(($action == "delete")&&($currentRank > 0))
{
    $cid = $_GET['id'];
    mysql_query("DELETE FROM classes WHERE id=$cid");
    mysql_query("DELETE FROM info WHERE classID=$cid");
    mysql_query("DELETE FROM exams WHERE classID=$cid");
    mysql_query("DELETE FROM assignments WHERE classID=$cid");
    mysql_query("DELETE FROM permissions WHERE classID=$cid");
    mysql_query("DELETE FROM requests WHERE classID=$cid");
    mysql_query("DELETE FROM weblinks WHERE classID=$cid");
    mysql_query("DELETE FROM disc WHERE classID=$cid");
    echo "
    <script>alert('Your class and its content were successfully
deleted');</script>
    <meta http-equiv=\"refresh\" content=\"0;url=view.php\">
    ";
}

```

```

// 3
else if(($action == "allow")&&($currentRank > 0))
{
    $cid = $_GET['classID'];
    $sid = $_GET['studentID'];

    mysql_query("INSERT INTO permissions VALUES ('$cid', '$sid')");
    mysql_query("DELETE FROM requests WHERE classID=$cid AND
studentID=$sid");

    echo "
    <script>alert('You have successfully added this student to your
class');</script>
    <meta http-equiv=\"refresh\" content=\"0;url=view.php\">
    ";
}

// 4
else if(($action == "reject")&&($currentRank > 0))
{
    $cid = $_GET['classID'];
    $sid = $_GET['studentID'];

    mysql_query("DELETE FROM requests WHERE classID=$cid AND
studentID=$sid");

    echo "
    <script>alert('You have successfully rejected this student request
to join your class');</script>
    <meta http-equiv=\"refresh\" content=\"0;url=view.php\">
    ";
}

// 5
else if(($action == "create")&&($currentRank > 0))
{
    $instructorID = $_GET['id'];
    $className = $_POST['name'];
    $classDesc = $_POST['desc'];

    $newID = 0;
    $query = "SELECT id FROM classes ORDER BY id ASC";
    $result = mysql_query($query);
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $newID = $row['id'];
    }
    $newID++;

    $newclassID= $newID;
}

```

```

    mysql_query("INSERT INTO classes VALUES ('$newID',
'$instructorID', '$className', '$classDesc')");

    $newID = 0;
    $query = "SELECT id FROM info ORDER BY id ASC";
    $result = mysql_query($query);
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $newID = $row['id'];
    }
    $newID++;

    mysql_query("INSERT INTO info VALUES ('$newID', '$newclassID',
'')");

    echo "
<script>alert('You have successfully added $className');</script>
<meta http-equiv=\"refresh\" content=\"0;url=view.php\">
";
}

// 7
else
{
    echo "
<script>alert('You do not have enough privileges to access this
page. Please wait while you are being redirected to your list of
classes');</script>
<meta http-equiv=\"refresh\" content=\"0;url=view.php\">
";
}

mysql_close($conn);
?>

```

Login.php

```

<?php

include 'includes/config.php';
include_once 'includes/template.php';
include 'includes/session.php';

$conn = mysql_connect($dbhost, $dbuser, $dbpass);
mysql_select_db($dbname);

$currentRank = $_SESSION['rank'];
if($currentRank >= 0)
{
    echo "<meta http-equiv=\"refresh\" content=\"0;url=view.php\">";
}

$footer = $footerDisabled;

$action = $_GET['action'];

if($action == "login")
{
    $username = $_POST['username'];
    $password = $_POST['password'];

    if((empty($username)) || (empty($password)))
    {
        $body = "
        <br><br><br><br><br>
        <center>Invalid username or password<br>Please try
again<br>
        <br> <a href='login.php'><img border=\"0\"
src=\"images/back.jpg\"></a>
        &nbsp;
        <a href='index.php'><img border=\"0\"
src=\"images/menu.jpg\"></a>
        <center>
        ";
    }
    else
    {
        $result = mysql_query("SELECT id, fullname, rank FROM
users WHERE username = '$username' AND password = '$password'");
        $row = mysql_fetch_row($result);
        $id = $row[0];
        $fullname = $row[1];
        $rank = $row[2];
    }
}

```

```

        if(empty($fullname)){
            $body = "
            <br><br><br><br><br>
            <center>Invalid username or password<br>Please try
again<br>
            <br> <a href='login.php'><img border=\"0\"
src=\"images/back.jpg\"></a>
            &nbsp;
            <a href='index.php'><img border=\"0\"
src=\"images/menu.jpg\"></a>
            <center>
            ";
        }
        else{
            $_SESSION['rank'] = $rank;
            $_SESSION['id'] = $id;
            $_SESSION['username'] = $username;

            $body = '<center><br><br><br><br><br>Welcome ' .
$fullname . '<br>Please wait while you are being rediredted</center>'
            . "<meta http-equiv=\"refresh\"
content=\"3;url=view.php\">";
        }
    }
}
else
{

    $body = "
    <form method='POST' action='login.php?action=login'>
    <br><br><br>
    <p align='center'>
    Username
    <input type='text' name='username' size='20'
style='border: 1px solid #ffffff'>
    <br><br>
    Password:
    <input type='password' name='password' size='20'
style='border: 1px solid #ffffff'><br><br>
    <input type='image' src='images/login.jpg' name='B1'>
    &nbsp;
    <a href='index.php'><img border=\"0\"
src=\"images/menu.jpg\"></a>
    </p>
    </form>
    ";
}

echo $t01 . $header . $t02 . $body . $t03 . $footer . $t04;

```

```
mysql_close($conn);  
?>
```

index.php

```

<?php

include_once 'includes/template.php';
include 'includes/session.php';

$footer = $footerDisabled;

$currentRank = $_SESSION['rank'];
if($currentRank >= 0)
{
    echo "<meta http-equiv=\"refresh\" content=\"0;url=view.php\">";
}

$body = "

<div align=\"center\">

<table width=\"0%\" cellpadding=\"0\" cellspacing=\"0\" border=\"0\">
<tr>

<td><a href=\"help.php\"><img border=\"0\"
src=\"images/a1.jpg\"></a></td>
<td><a href=\"register.php\"><img border=\"0\"
src=\"images/a2.jpg\"></a></td>
<td><a href=\"login.php\"><img border=\"0\"
src=\"images/a3.jpg\"></a></td>

</tr>
</table>
</div>

";

echo $t01 . $header . $t02 . $body . $t03 . $footer . $t04;

?>

```


Register.php

```

<?php

include 'includes/config.php';
include_once 'includes/template.php';
include 'includes/session.php';

$conn = mysql_connect($dbhost, $dbuser, $dbpass);
mysql_select_db($dbname);

$footer = $footerWaiting;
$step = $_GET['step'];

if(empty($step))
$step = 1;

$currentRank = $_SESSION['rank'];
if($currentRank >= 0)
{
    echo "<meta http-equiv=\"refresh\" content=\"0;url=view.php\">";
}

if($step == 1)
{
    $toShow = "
    <form method=\"post\" action=\"register.php?step=2\"
onSubmit=\"return checkForm(this);\">
    <div style=\"width: 100%; padding:0px; height: 180px; overflow:
auto; line-height:150%;\">
        <table width=\"0\" cellpadding=\"4\" cellspacing=\"0\"
border=\"0\">

            <tr>
            <td>
                Username:
            </td>
            <td>
                <input type=\"text\" name=\"username\" maxlength=\"16\"
style=\"width:200px;\">
            </td>
            <td>
                (4-16 characters long)
            </td>
            </tr>

            <tr>
            <td>

```

```

        Password:
        </td>
        <td>
        <input type=\"password\" name=\"password\"
maxlength=\"16\" style=\"width:200px;\">
        </td>
        <td>
        (4-16 characters long)
        </td>
    </tr>

    <tr>
    <td>
    ID Number:
    </td>
    <td>
    <input type=\"text\" name=\"id\" maxlength=\"10\"
style=\"width:200px;\">
    </td>
    <td>
    (e.g. u0123456)
    </td>
    </tr>

    <tr>
    <td>
    SSN:
    </td>
    <td>
    <input type=\"text\" name=\"ssn\" maxlength=\"10\"
style=\"width:200px;\">
    </td>
    <td>
    (numbers only. no dashes)
    </td>
    </tr>

</table>

</div>
<center>
<input type='image' src='images/next.jpg' name='B1'>
&nbsp;
<a href='index.php'><img border=\"0\" src=\"images/menu.jpg\"></a>
</center>

```

```

    </form>

    ";
}
else if ($step == 2)
{
    $usernameL = $_POST['username'];
    $passwordL = $_POST['password'];
    $idL = $_POST['id'];
    $ssnL = $_POST['ssn'];

    $errorCounter = 0;
    $message = "";

    // check if this user exist
    $result = mysql_query("SELECT id FROM users WHERE username =
'$usernameL'");
    $row = mysql_fetch_row($result);
    $id = $row[0];
    if(!empty($id))
    {
        $message = "This username already exist<br>Choose another
username";
        $errorCounter++;
    }
    else
    {
        // check if this user has an account
        $result = mysql_query("SELECT ssn, id, username, rank FROM
users WHERE uid = '$idL'");
        $row = mysql_fetch_row($result);
        $ssn = $row[0];
        $id = $row[1];
        $username = $row[2];
        $rank = $row[3];

        if(!empty($username))
        {
            $message = "There is another account associated with this
ID";
            $errorCounter++;
        }
        else
        {
            // check if the SSN given equal the ssn in the DB
            if($ssn == $ssnL)
            {
                mysql_query("UPDATE users SET `username` =
'$usernameL' WHERE `id` = '$id'");
            }
        }
    }
}

```

```

        mysql_query("UPDATE users SET `password` =
'$passwordL' WHERE `id` = '$id'");
        $message = "You're account was successfully
created<br>Please login";
        $errorCounter = 0;
        $_SESSION['rank'] = $rank;
        $_SESSION['id'] = $id;
    }
    else
    {
        $message = "Unmatched ID and social security number";
        $errorCounter++;
    }
}

if($errorCounter > 0)
{
    $toShow = "
        <br><br><br><br><br>
        <center>$message<br>
        <br> <a href='register.php'><img border=\"0\"
src=\"images/back.jpg\"></a>
        &nbsp;
        <a href='index.php'><img border=\"0\"
src=\"images/menu.jpg\"></a>
        <center>
    ";
}
else
{
    $toShow = "<br><br><br><br><br><center>$message</center>
<meta http-equiv=\"refresh\" content=\"3;url=login.php\">
";
}

}
else
{
    echo "<meta http-equiv=\"refresh\"
content=\"0;url=register.php\">";
}

```

```

$body = "
<div align=\"center\">
<table width=\"700\" cellpadding=\"0\" cellspacing=\"0\" border=\"0\">
<tr>
<td align=\"left\">
<H1>Register</h1>
<script>
function checkForm(form)
{
    if(form.username.value == \"\")
    {
        alert('You have to enter a username');
        form.username.focus();
        return false;
    }
    if(form.password.value == \"\")
    {
        alert('You have to enter a password');
        form.password.focus();
        return false;
    }
    if(form.id.value == \"\")
    {
        alert('You have to enter your ID number');
        form.id.focus();
        return false;
    }
    if(form.ssn.value == \"\")
    {
        alert('You have to enter your social security
number');
        form.ssn.focus();
        return false;
    }
    return true;
}
</script>

$toShow

</td>

```

```
</tr>  
</table>  
</div>
```

```
";
```

```
echo $t01 . $header . $t02 . $body . $t03 . $footer . $t04;
```

```
mysql_close($conn);
```

```
?>
```

show.php

```

<?php

include 'includes/config.php';
include 'includes/session.php';
include_once 'includes/template.php';

$conn = mysql_connect($dbhost, $dbuser, $dbpass);
mysql_select_db($dbname);

$footer = $footerEnabled;

$currentRank = $_SESSION['rank'];
$myID = $_SESSION['id'];
$classID = $_GET['classID'];
$page = $_GET['page'];

if(empty($page))
$page = "home";

$areaHeight = "230px";

$MonthsArray = array(
    "01" => "Jan",
    "02" => "Feb",
    "03" => "March",
    "04" => "April",
    "05" => "May",
    "06" => "June",
    "07" => "July",
    "08" => "Aug",
    "09" => "Sep",
    "10" => "Oct",
    "11" => "Nov",
    "12" => "Dec"
);

$result = mysql_query("SELECT * FROM classes WHERE id = '$classID'");
$row = mysql_fetch_row($result);
$instructorID = $row[1];
$className = $row[2];
$classDesc = $row[3];

if($currentRank < 0)
{
    echo "<meta http-equiv=\"refresh\" content=\"0;url=index.php\">";
}

if($currentRank > 0)

```

```

$myRule = "Instructor";
else
$myRule = "Student";

$result = mysql_query("SELECT fullname FROM users WHERE id =
'$myID'");
$row = mysql_fetch_row($result);
$fullname = $row[0];

//*****//
//
//      Manin Views
//
//*****//

//1 show class info
if($page == "home")
{
    $showMethod = "auto";
    $result = mysql_query("SELECT info FROM info WHERE classID =
'$classID'");
    $row = mysql_fetch_row($result);

    if($currentRank == 0){
        $pageContent = $row[0];
    }
    else
    {
        $data = $row[0];
        $showMethod = "none";
        $pageContent = "
        <form method=\"post\"
action=\"show.php?page=update&table=info&field=info&classID=$classID\"
>
                <textarea name=\"data\" id=\"wysiwyg\"
style=\"resize: none;\" cols=\"94\" rows=\"12\">$data</textarea>
                <center><input type=\"submit\" value=\"SAVE
CHANGES\"></center>
                </form>
        ";
    }
}

//2 show notes

```



```

else if ($page == "notes")
{
    $showMethod = "auto";

    $query = "SELECT * FROM notes WHERE classID = '$classID' ORDER BY
id ASC";
    $result = mysql_query($query);
    $counter = 0;
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $title = $row['name'];
        $rowID = $row['id'];
        $pageContent = $pageContent . "
<table border=1 width=\"100%\" style=\"border-collapse:
collapse\" cellspacing=\"0\" cellpadding=\"4\">
<tr>
<td bgcolor='#ffffff'>
<table width='100%' border='0' cellpadding='0'
cellspacing='0'>
<tr>
<td width='100%'>
<font color='#000000'>$title</font>
</td>
<td>
<input type='button' value='Show'
onclick=\"window.location =
'show.php?page=showNote&id=$rowID&classID=$classID';\">
</td>
</tr>
</table>
</td>
</tr>
</table>
<br>
";
        $counter++;
    }

    if($counter < 1)
    $pageContent = "There are no notes to display.";
}

// 6
else if ($page == "showNote")
{
    $showMethod = "auto";

```

```

    $uid = $_GET['id'];

    $result = mysql_query("SELECT content FROM notes WHERE id =
'$uid'");
    $row = mysql_fetch_row($result);
    $url = $row[0];
    $pageContent = "<iframe src ='uploads/$url' width='100%'
height='100%'></iframe>";

    // $pageContent = "<div align='center'><img
src='uploads/1.jpg'></div>";
}

//3 show assignments
else if ($page == "assignments")
{
    $showMethod = "auto";
    $areaHeight = "200px;";

    if($currentRank > 0)
    $vvv = "
<div style=\"padding-bottom:10px;\">
<table border=0 width=\"100%\" style=\"border-collapse:
collapse\" cellspacing=\"0\" cellpadding=\"0\">
<tr>
<td>
        <input type='button' value='ADD A NEW ASSIGNMENT'
onclick=\"window.location='show.php?page=add&classID=$classID&table=as
signments'\">
    </td>
</tr>
</table>
</div>
";
    else
    $areaHeight = "230px;";

    $goBackButtons = "";
    $counter = 0;
    $theList = "<table class=\"class1\" bordercolor=\"#727272\"
style=\"border-collapse: collapse\" width=\"97%\" cellSpacing=\"0\"
cellPadding=\"4\" border=\"1\">";
    $query = "SELECT * FROM assignments WHERE classID = '$classID'
ORDER BY id ASC";
    $result = mysql_query($query);
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $assignmentID = $row['id'];

```

```

$assignmentName = $row['name'];
$assignmentSatrt = $row['start'];
$assignmentEnd = $row['end'];
$assignmentGradeOld = $row['grade'];
$assignmentGrade = $row['grade'];
$assignmentDesc = $row['desc'];

$chunks = explode("-", $assignmentSatrt);
$toGet = $chunks[2];
$assignmentSatrt = "Start: " . $chunks[1] . " " .
$MonthsArray[$toGet] . " " . $chunks[0] . "</b>";

$chunks = explode("-", $assignmentEnd);
$toGet = $chunks[2];
$assignmentEnd = "Ends: " . $chunks[1] . " " .
$MonthsArray[$toGet] . " " . $chunks[0] . "</b>";

$reminder = $counter%2; if($reminder == 0) $mycolor
="#ffffff"; else $mycolor = "#cccccc";

if($currentRank == 0){

    $assignmentGrade = '0 out of ' . $row['grade'];

    $result2 = mysql_query("SELECT * FROM submissions WHERE
assignmentID = '$assignmentID' AND studentID = '$myID'");
    $row2 = mysql_fetch_row($result2);
    $mySubmissionID = $row2[0];

    if(empty($mySubmissionID))
    {
        $indicator = "<td width='1%'
bgcolor=\"\$mycolor\"><img border='0' src='images/no.gif' title='You
have not done this assignment yet'></td>";
        $disableME = "";
    }
    else
    {
        $indicator = "<td width='1%'
bgcolor=\"\$mycolor\"><img border='0' src='images/yes.gif' title='You
have already submitted this assignment'></td>";
        $disableME = "disabled";
        $assignmentGrade = $row2[4] . " out of
$assignmentGradeOld";
    }
}

```

```

        $modifyButton = "<input type=\"button\" value=\"Do
Assignment\"
onClick=\"window.location='show.php?page=do&table=assignments&id=$assi
gnmentID&classID=$classID';\" $disableME>
        ";
    }
    else
    {
        $modifyButton = "<input type=\"button\" value=\"Modify\"
onClick=\"window.location='show.php?page=edit&table=assignments&id=$a
signmentID&classID=$classID';\">
        <br>
        <input type=\"button\"
value=\"Grade\"
onClick=\"window.location='show.php?page=grade&table=assignments&id=$a
ssignmentID&classID=$classID';\">
        <br>
        <input type=\"button\"
value=\"Delete\"
onClick=\"window.location='show.php?page=drop&table=assignments&id=$a
signmentID&classID=$classID';\">
        ";
    }

    $theList = $theList . "
    <tr>
    $indicator
    <td bgcolor=\"\$mycolor\" style=\"color:#000000;\">
    $assignmentName
    </td>
    <td bgcolor=\"\$mycolor\" style=\"color:#000000;\">
    $assignmentSatrt <br> $assignmentEnd
    </td>
    <td bgcolor=\"\$mycolor\" style=\"color:#000000;\">
    Grade: $assignmentGrade
    </td>
    <td bgcolor=\"\$mycolor\" style=\"color:#000000;\" width=\"1\"
align='center'>
    $modifyButton
    </td>
    </tr>
    ";
    $counter++;
}
$theList = $theList . "</table>";

if($counter < 1)
$theList = "There are no assignments yet";

```

```

    $pageContent = $theList;
}

//4 show exmas
else if ($page == "exams")
{
    $showMethod = "auto";
    $areaHeight = "200px;";

    if($currentRank > 0)
    $vvv = "
    <div style=\"padding-bottom:10px;\">
    <table border=0 width=\"100%\" style=\"border-collapse:
collapse\" cellspacing=\"0\" cellpadding=\"0\">
    <tr>
    <td>
        <input type='button' value='ADD A NEW EXAM'
onclick=\"window.location='show.php?page=add&classID=$classID&table=ex
ams'\">
    </td>
    </tr>
    </table>
    </div>
    ";
    else
    $areaHeight = "230px;";

    $goBackButtons = "";
    $counter = 0;
    $theList = "<table class=\"class1\" bordercolor=\"#727272\"
style=\"border-collapse: collapse\" width=\"97%\" cellSpacing=\"0\"
cellPadding=\"4\" border=\"1\">";
    $query = "SELECT * FROM exams WHERE classID = '$classID' ORDER BY
id ASC";
    $result = mysql_query($query);
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $assignmentID = $row['id'];
        $assignmentName = $row['name'];
        $assignmentSatrt = $row['start'];
        $assignmentEnd = $row['end'];
        $assignmentGradeOld = $row['grade'];
        $assignmentGrade = $row['grade'];
        $assignmentDesc = $row['desc'];
    }
}

```

```

    $chunks = explode("-", $assignmentSatrt);
    $toGet = $chunks[2];
    $assignmentSatrt = "Start: " . $chunks[1] . " " .
    $MonthsArray[$toGet] . " " . $chunks[0] . "</b>";

    $chunks = explode("-", $assignmentEnd);
    $toGet = $chunks[2];
    $assignmentEnd = "Ends: " . $chunks[1] . " " .
    $MonthsArray[$toGet] . " " . $chunks[0] . "</b>";

    $remainder = $counter%2; if($remainder == 0) $mycolor
    = "#ffffff"; else $mycolor = "#cccccc";

    if($currentRank == 0){

        $assignmentGrade = '0 out of ' . $row['grade'];

        $result2 = mysql_query("SELECT * FROM answers WHERE
examID = '$assignmentID' AND studentID = '$myID'");
        $row2 = mysql_fetch_row($result2);
        $mySubmissionID = $row2[0];

        if(empty($mySubmissionID))
        {
            $indicator = "<td width='1%'
bgcolor=\"\$mycolor\"><img border='0' src='images/no.gif' title='You
have not taken this exam yet'></td>";
            $disableME = "";
        }
        else
        {
            $indicator = "<td width='1%'
bgcolor=\"\$mycolor\"><img border='0' src='images/yes.gif' title='You
have already taken this exam'></td>";
            $disableME = "disabled";
            $assignmentGrade = $row2[4] . " out of
$assignmentGradeOld";
        }

        $modifyButton = "<input type=\"button\" value=\"Take
Exam\"
onClick=\"window.location='show.php?page=do&table=exams&id=$assignment
ID&classID=$classID';\" $disableME>
";

```

```

    }
    else
    {
        $modifyButton = "<input type=\"button\" value=\"Modify\"
onClick=\"window.location='show.php?page=edit&table=exams&id=$assignmentID&classID=$classID';\">
        <br>
        <input type=\"button\"
value=\"Grade\"
onClick=\"window.location='show.php?page=grade&table=exams&id=$assignmentID&classID=$classID';\">
        <br>
        <input type=\"button\"
value=\"Delete\"
onClick=\"window.location='show.php?page=drop&table=exams&id=$assignmentID&classID=$classID';\">
    ";
    }

    $theList = $theList . "
<tr>
$indicator
<td bgcolor=\"$mycolor\" style=\"color:#000000;\">
$assignmentName
</td>
<td bgcolor=\"$mycolor\" style=\"color:#000000;\">
$assignmentSatrt <br> $assignmentEnd
</td>
<td bgcolor=\"$mycolor\" style=\"color:#000000;\">
Grade: $assignmentGrade
</td>
<td bgcolor=\"$mycolor\" style=\"color:#000000;\" width=\"1\"
align='center'>
$modifyButton
</td>
</tr>
";
    $counter++;
}
$theList = $theList . "</table>";

if($counter < 1)
$theList = "There are no exams yet";

$pageContent = $theList;
}

```

```

//5 communicate
else if ($page == "communicate")
{
    $nav = $_GET['nav'];
    if(empty($nav))
    $nav = 1;

    $showMethod = "auto";

    // Nav 1: show all emails
    if($nav == 1)
    {
        $vvv = "<input type='button' value='Send New Email'
onClick=\"window.location='show.php?classID=$classID&page=communicate&
nav=4'\>\"";

        $collected = "
        <table width='100%' border='0' cellpadding='5'
cellspacing='0'>
        ";

        $counter = 0;
        $query = "SELECT * FROM email WHERE to1 = '$myID' ORDER BY
date DESC";
        $result = mysql_query($query);
        while($row = mysql_fetch_array($result, MYSQL_ASSOC))
        {
            $from = $row['from1'];
            $date = $row['date'];
            $subject = $row['subject'];
            $emailID = $row['id'];

            $chunks = explode("-", $date);
            $toGet = $chunks[1];
            $date = $chunks[2] . " " . $MonthsArray[$toGet] . " " .
$chunks[0];

            $result2 = mysql_query("SELECT fullname FROM users WHERE
id = '$from'");
            $row2 = mysql_fetch_row($result2);
            $senderName = $row2[0];

            $reminder = $counter%2; if($reminder == 0) $mycolor
="#dddddd"; else $mycolor = "#ffffff";

```



```

        $collected = $collected . "
        <tr bgcolor='$mycolor'>
        <td width='30%'>
        <font color='#000000'>$senderName</font>
        </td>
        <td>
        <a href='java:void(0)'\>$subject</a>
        </td>
        <td width='20%'>
        <font color='#000000'>$date</font>
        </td>
        <td width='18%'>
            <input type='button' value='READ'
onClick=\"window.location='show.php?classID=$classID&page=communicate&
nav=2&emailID=$emailID'\>
            <input type='button' value='DELETE'
onClick=\"window.location='show.php?classID=$classID&page=communicate&
nav=3&emailID=$emailID'\>
            </td>
        </tr>
        ";
        $counter++;
    }

    if($counter < 1)
    $collected = $collected . "<tr><td>You don't have any
emails</td></tr>";

    $collected = $collected . "
    </table>
    ";

    $pageContent = $collected;
}

// Nav 2 : read given email
else if($nav == 2)
{
    $emailID = $_GET['emailID'];

    $result = mysql_query("SELECT * FROM email WHERE id =
'$emailID'");
    $row = mysql_fetch_row($result);
    $sender = $row[1];
    $date = $row[3];
    $subject = $row[4];
    $content = $row[5];

    $result2 = mysql_query("SELECT fullname FROM users WHERE id =

```

```

'$sender'");
    $row2 = mysql_fetch_row($result2);
    $senderName = $row2[0];

    $chunks = explode("-", $date);
    $toGet = $chunks[1];
    $date = $chunks[2] . " " . $MonthsArray[$toGet] . " " .
$chunks[0];

    $vvv = "<input type='button' value='Back To Emails List'
onClick=\"window.location='show.php?classID=$classID&page=communicate&
nav=1'\>
        <input type='button' value='Replay'
onClick=\"window.location='show.php?classID=$classID&page=communicate&
nav=4&emailID=$emailID&towhom=$sender'\>
        <input type='button' value='Delete This Email'
onClick=\"window.location='show.php?classID=$classID&page=communicate&
nav=3&emailID=$emailID'\>
    ";

    $pageContent = "
    <table width='100%' border='0' cellpadding='5'
cellspacing='0'>

        <tr><td>
        <font color='#000000'>Sender:</font>
        </td><td width='100%'>
        <input type='text' style='width:300px' value='$senderName'
readonly>
        </td></tr>

        <tr><td>
        <font color='#000000'>Date:</font>
        </td><td width='100%'>
        <input type='text' style='width:300px' value='$date' readonly>
        </td></tr>

        <tr><td>
        <font color='#000000'>Subject:</font>
        </td><td width='100%'>
        <input type='text' style='width:300px' value='$subject'
readonly>
        </td></tr>

        <tr><td>
        &nbsp;
        </td><td width='100%'>
        <textarea style='width:97%; height:100px; resize:none;'
readonly>$content</textarea>
        </td></tr>

```

```

        </table>
        ";
    }

    // Nav 3: delete email and redirect
    else if($nav == 3)
    {
        $emailID = $_GET['emailID'];

        mysql_query("DELETE FROM email WHERE id=$emailID");
        echo "
        <meta http-equiv=\"refresh\"
content=\"0;url=show.php?classID=$classID&page=communicate&nav=1\">
        ";
    }

    // Nav 4: New Email Form
    else if($nav == 4)
    {

        $towhom = $_GET['towhom'];

        $dlist = "";
        $query = "SELECT * FROM users ORDER BY fullname ASC";
        $result = mysql_query($query);
        while($row = mysql_fetch_array($result, MYSQL_ASSOC))
        {
            $userID = $row['id'];
            $userFullname = $row['fullname'];

            if($userID == $towhom)
            $selecteThis = "selected";
            else
            $selecteThis = "";

            if($userID != $myID)
            $dlist = $dlist . "<option value='$userID'
$selecteThis>$userFullname</option>";
        }

        if(!empty($towhom))
        {
            $emailID = $_GET['emailID'];
            $result = mysql_query("SELECT * FROM email WHERE id =
'$emailID'");
            $row = mysql_fetch_row($result);
            $subject = 'RE: '.$row[4];
            $content = $row[5];
        }
    }
}

```

```

    }

    $pageContent = "
    <form method='post'
action='show.php?classID=$classID&page=communicate&nav=5'>
    <table width='100%' border='0' cellpadding='5'
cellspacing='0'>

    <tr><td>
    <font color='#000000'>Receiver:</font>
    </td><td width='100%'>
    <select name='to'>${dlist}</select>
    </td></tr>

    <tr><td>
    <font color='#000000'>Subject:</font>
    </td><td width='100%'>
    <input type='text' name='subject' style='width:300px'
value='$subject'>
    </td></tr>

    <tr><td>
    &nbsp;
    </td><td width='100%'>
    <textarea name=\"data\" style='width:97%; height:100px;
resize:none;'>${content}</textarea>
    </td></tr>

    <tr><td>
    <font color='#000000'>&nbsp;</font>
    </td><td width='100%'3>
    <input type='submit' value='Send'>
    </td></tr>

    </table>
    </form>
    ";
}

// Nav 5: Send New Email
else if($nav == 5)
{
    $to = $_POST['to'];
    $subject = $_POST['subject'];
    $message = $_POST['data'];
    $date = date("Y-m-d");

    $newID = 0;
    $query = "SELECT id FROM email ORDER BY id ASC";

```

```

$result = mysql_query($query);
while($row = mysql_fetch_array($result, MYSQL_ASSOC))
{
    $newID = $row['id'];
}
$newID++;

mysql_query("INSERT INTO email VALUES ('$newID', '$myID',
'$to', '$date', '$subject', '$message', '')");

echo "
<script>alert('Your message has been successfully
sent');</script>
<meta http-equiv=\"refresh\"
content=\"0;url=show.php?classID=$classID&page=communicate&nav=1\">
";
}

// error, handel error
else
{
    echo "
<meta http-equiv=\"refresh\"
content=\"0;url=show.php?classID=$classID&page=communicate&nav=1\">
";
}
}

```

```

//6 show all grades
else if ($page == "grades")
{
    $showMethod = "auto";
    if($currentRank == 0){

        $thieBgColor = "#ffffff";
        $counter = 0;
        $total = 0;
        $myTotal = 0;
        $outcome = "<table width='97%' bordercolor=\"#727272\"
style=\"border-collapse: collapse\" cellspacing=\"0\"
cellpadding=\"4\" border=\"1\">
        <tr><td align='center' bgcolor='$thieBgColor'><font
color='#000000'>Assignment/Exam Name</font></td><td align='center'

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```

bgcolor='$thieBgColor'><font color='#000000'>My Grade</font></td><td
align='center' bgcolor='$thieBgColor'><font color='#000000'>Possible
Grade</font></td></tr>
";
$query = "SELECT * FROM assignments WHERE classID = $classID
ORDER BY id ASC";
$result = mysql_query($query);
while($row = mysql_fetch_array($result, MYSQL_ASSOC))
{
    $thisName = $row['name'];
    $thisGrade = $row['grade'];
    $assignmentID = $row['id'];

    $remainder = $counter%2;

    $result2 = mysql_query("SELECT grade FROM submissions
WHERE assignmentID = '$assignmentID' AND studentID = '$myID'");
    $row2 = mysql_fetch_row($result2);
    $myGrade = $row2[0];

    if(empty($myGrade))
    $myGrade = 0;

    if($remainder == 0)
    $thieBgColor = "#d0d0d0";
    else
    $thieBgColor = "#ffffff";

    $myTotal = $myTotal + $myGrade;
    $total = $total + $thisGrade;

    $outcome = $outcome . "<tr><td
bgcolor='$thieBgColor'><font color='#000000'>$thisName</font></td><td
align='center' bgcolor='$thieBgColor'><font
color='#000000'>$myGrade</font></td><td align='center'
bgcolor='$thieBgColor'><font
color='#000000'>$thisGrade</font></td></tr>";

    $counter++;
}

$query = "SELECT * FROM exams WHERE classID = $classID ORDER
BY id ASC";
$result = mysql_query($query);
while($row = mysql_fetch_array($result, MYSQL_ASSOC))
{
    $thisName = $row['name'];
    $thisGrade = $row['grade'];
    $examID = $row['id'];

```

```

    $remainder = $counter%2;

    $result2 = mysql_query("SELECT grade FROM answers WHERE
examID = '$examID' AND studentID = '$myID'");
    $row2 = mysql_fetch_row($result2);
    $myGrade = $row2[0];

    if(empty($myGrade))
    $myGrade = 0;

    if($remainder == 0)
    $thieBgColor = "#d0d0d0";
    else
    $thieBgColor = "#ffffff";

    $myTotal = $myTotal + $myGrade;
    $total = $total + $thisGrade;

    $outcome = $outcome . "<tr><td
bgcolor='$thieBgColor'><font color='#000000'>$thisName</font></td><td
align='center' bgcolor='$thieBgColor'><font
color='#000000'>$myGrade</font></td><td align='center'
bgcolor='$thieBgColor'><font
color='#000000'>$thisGrade</font></td></tr>";

    $counter++;
}

if($counter < 1)
$outcome = "No grades were found";
else
$outcome = $outcome . "
<tr><td align='center' bgcolor='#CEE4F5'>&nbsp;</td><td
align='center' bgcolor='#CEE4F5'><font
color='#000000'><b>$myTotal</b></font></td><td align='center'
bgcolor='#CEE4F5'><font color='#000000'><b>$total</b></font></td></tr>
</table>";
}
else
{
    $thieBgColor = "#ffffff";
    $counter = 0;
    $g1 = "";
    $g3 = "";
    $g4 = "";

    $totalArray = array();
    $fullArray = array();

```

```

$outcome = "<table width='97%' bordercolor=\"#727272\"
style=\"border-collapse: collapse\" cellspacing=\"0\"
cellpadding=\"0\" border=\"1\">
";
$query = "SELECT * FROM assignments WHERE classID = $classID
ORDER BY id ASC";
$result = mysql_query($query);
while($row = mysql_fetch_array($result, MYSQL_ASSOC))
{
    $thisName = $row['name'];
    $thisGrade = $row['grade'];
    $assignmentID = $row['id'];

    $g1 = $g1 . "<td bgcolor='#CEE4F5' align='center'><font
color='#000000'>$thisName</font></td>";

    $query2 = "SELECT * FROM permissions WHERE classID =
$classID";

    $result2 = mysql_query($query2);
    $g2 = "<table width='100%'>";
    $g4 = "<table width='100%'>";
    $g6 = "<table width='100%'>";
    $g7 = "<table width='100%'>";
    $g8 = "<table width='100%'>";
    $nfactor = 0;
    while($row2 = mysql_fetch_array($result2,
MYSQL_ASSOC))
    {

        $remainder = $nfactor%2;
        if($remainder == 0)
            $thieBgColor = "#d0d0d0";
        else
            $thieBgColor = "#ffffff";

        $thisStudentID = $row2['studentID'];
        $result3 = mysql_query("SELECT grade FROM
submissions WHERE assignmentID = $assignmentID AND
studentID=$thisStudentID");
        $row3 = mysql_fetch_row($result3);
        $thiscGrade = $row3[0];

        if(empty($thiscGrade))
            $thiscGrade = 0;

        $g2 = $g2 . "<tr><td bgcolor='$thieBgColor'
align='center'><font color='#000000'>$thiscGrade</td></tr>";

        $result3 = mysql_query("SELECT fullname FROM
users WHERE id = $thisStudentID");

```



```

        $row3 = mysql_fetch_row($result3);
        $g4 = $g4 . "<tr><td bgcolor='$thieBgColor'><font
color='#000000'>" . $row3[0] . "</td></tr>";

        $totalArray[$thisStudentID] =
$totalArray[$thisStudentID] + $thiscGrade;
        $fullArray[$thisStudentID] =
$totalArray[$thisStudentID] + $thisGrade;

        if($fullArray[$thisStudentID] > 0)
            $perc = ($totalArray[$thisStudentID] /
$totalArray[$thisStudentID])*100;
        else
            $perc = 0;

        $percentage = $perc;

        $bomb = explode(".", $percentage);
        if((!empty($bomb[0]))&&(strlen($bomb[0]) < 2))
            $percentage = '0'.$percentage;

        if(strlen($percentage) > 5)
            $percentage = substr($percentage, 0, 5);

        $g6 = $g6 . "<tr><td bgcolor='$thieBgColor'
align='center'><font color='#000000'>" . $totalArray[$thisStudentID] .
"</td></tr>";

        $g7 = $g7 . "<tr><td bgcolor='$thieBgColor'
align='center'><font color='#000000'>" . $percentage . "%</td></tr>";
        if(($perc > 89.99)&&($perc < 100))
            $lg = "A";
        else if(($perc > 79.99)&&($perc < 90))
            $lg = "B";
        else if(($perc > 69.99)&&($perc < 80))
            $lg = "C";
        else if(($perc > 59.99)&&($perc < 70))
            $lg = "D";
        else
            $lg = "E";

        $g8 = $g8 . "<tr><td bgcolor='$thieBgColor'
align='center'><font color='#000000'>" . $lg . "</td></tr>";

        $nfactor++;

    }
    $g2 = $g2 . "</table>";
    $g4 = $g4 . "</table>";
    $g6 = $g6 . "</table>";

```

```

        $g7 = $g7 . "</table>";
        $g8 = $g8 . "</table>";

        $counter++;
        $g3 = $g3 . "<td>$g2</td>";
    }

    $query = "SELECT * FROM exams WHERE classID = $classID ORDER
BY id ASC";
    $result = mysql_query($query);
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $thisName = $row['name'];
        $thisGrade = $row['grade'];
        $assignmentID = $row['id'];

        $g1 = $g1 . "<td bgcolor='#CEE4F5' align='center'><font
color='#000000'>$thisName</font></td>";

        $query2 = "SELECT * FROM permissions WHERE classID =
$classID";
        $result2 = mysql_query($query2);
        $g2 = "<table width='100%'>";
        $g4 = "<table width='100%'>";
        $g6 = "<table width='100%'>";
        $g7 = "<table width='100%'>";
        $g8 = "<table width='100%'>";
        $nfactor = 0;
        while($row2 = mysql_fetch_array($result2,
MYSQL_ASSOC))
        {

            $remainder = $nfactor%2;
            if($remainder == 0)
                $thieBgColor = "#d0d0d0";
            else
                $thieBgColor = "#ffffff";

            $thisStudentID = $row2['studentID'];
            $result3 = mysql_query("SELECT grade FROM answers
WHERE examID = $assignmentID AND studentID=$thisStudentID");
            $row3 = mysql_fetch_row($result3);
            $thiscGrade = $row3[0];

            if(empty($thiscGrade))
                $thiscGrade = 0;

            $g2 = $g2 . "<tr><td bgcolor='$thieBgColor'
align='center'><font color='#000000'>$thiscGrade</td></tr>";

```

```

        $result3 = mysql_query("SELECT fullname FROM
users WHERE id = $thisStudentID");
        $row3 = mysql_fetch_row($result3);
        $g4 = $g4 . "<tr><td bgcolor='$thieBgColor'><font
color='#000000'>" . $row3[0] . "</td></tr>";

        $totalArray[$thisStudentID] =
$totalArray[$thisStudentID] + $thiscGrade;
        $fullArray[$thisStudentID] =
$totalArray[$thisStudentID] + $thisGrade;

        if($fullArray[$thisStudentID] > 0)
        $perc = ($totalArray[$thisStudentID] /
$totalArray[$thisStudentID])*100;
        else
        $perc = 0;
        $percentage = $perc;

        $bomb = explode(".", $percentage);
        if((!empty($bomb[0]))&&(strlen($bomb[0]) < 2))
        $percentage = '0'.$percentage;

        if(strlen($percentage) > 5)
        $percentage = substr($percentage, 0, 5);

        $g6 = $g6 . "<tr><td bgcolor='$thieBgColor'
align='center'><font color='#000000'>" . $totalArray[$thisStudentID] .
"</td></tr>";
        $g7 = $g7 . "<tr><td bgcolor='$thieBgColor'
align='center'><font color='#000000'>" . $percentage . "%</td></tr>";

        if(($perc > 89.99)&&($perc < 100))
        $lg = "A";
        else if(($perc > 79.99)&&($perc < 90))
        $lg = "B";
        else if(($perc > 69.99)&&($perc < 80))
        $lg = "C";
        else if(($perc > 59.99)&&($perc < 70))
        $lg = "D";
        else
        $lg = "E";

        $g8 = $g8 . "<tr><td bgcolor='$thieBgColor'
align='center'><font color='#000000'>" . $lg . "</td></tr>";

        $nfactor++;

```

```

    }
    $g2 = $g2 . "</table>";
    $g4 = $g4 . "</table>";
    $g6 = $g6 . "</table>";
    $g7 = $g7 . "</table>";
    $g8 = $g8 . "</table>";

    $counter++;
    $g3 = $g3 . "<td>$g2</td>";
}

if($counter < 1)
$outcome = "No grades were found";
else
$outcome = $outcome . "

    <tr><td bgcolor='#CEE4F5' align='center'><font
color='#000000'>Student Name</font></td>
    $g1
    <td bgcolor='#CEE4F5' align='center'><font
color='#000000'>Total</td>
    <td bgcolor='#CEE4F5' align='center'><font
color='#000000'>%</td>
    <td bgcolor='#CEE4F5' align='center'><font
color='#000000'>Grade</td>
    </tr>
    <tr><td><font color='#000000'>$g4</font></td>$g3<td
align='center'>$g6</td><td align='center'>$g7</td><td
align='center'>$g8</td></tr>

    </table>";
}

$pageContent = $outcome;

}

//*****//
//
//    Sub-Views
//
//*****//

//7 Show form to add assignments and exams
else if (($page == "add")&&($currentRank > 0))
{
    $tableName = $_GET['table'];
    $classID = $_GET['classID'];

```

```
$showMethod = "none";

$month1 = "
    <option value='01'>January</option>
    <option value='02'>February</option>
    <option value='03'>March</option>
    <option value='04'>April</option>
    <option value='05'>May</option>
    <option value='06'>June</option>
    <option value='07'>July</option>
    <option value='08'>August</option>
    <option value='09'>September</option>
    <option value='10'>October</option>
    <option value='11'>November</option>
    <option value='12'>December</option>
";

$month2 = "
    <option value='01'>January</option>
    <option value='02'>February</option>
    <option value='03'>March</option>
    <option value='04'>April</option>
    <option value='05'>May</option>
    <option value='06'>June</option>
    <option value='07'>July</option>
    <option value='08'>August</option>
    <option value='09'>September</option>
    <option value='10'>October</option>
    <option value='11'>November</option>
    <option value='12'>December</option>
";

$day1 = "
    <option value='01'>01</option>
    <option value='02'>02</option>
    <option value='03'>03</option>
    <option value='04'>04</option>
    <option value='05'>05</option>
    <option value='06'>06</option>
    <option value='07'>07</option>
    <option value='08'>08</option>
    <option value='09'>09</option>
    <option value='10'>10</option>
    <option value='11'>11</option>
    <option value='12'>12</option>
    <option value='13'>13</option>
    <option value='14'>14</option>
    <option value='15'>15</option>
```

```
<option value='16'>16</option>
<option value='17'>17</option>
<option value='18'>18</option>
<option value='19'>19</option>
<option value='20'>20</option>
<option value='21'>21</option>
<option value='22'>22</option>
<option value='23'>23</option>
<option value='24'>24</option>
<option value='25'>25</option>
<option value='26'>26</option>
<option value='27'>27</option>
<option value='28'>28</option>
<option value='29'>29</option>
<option value='30'>30</option>
<option value='31'>31</option>
";
```

```
$day2 = "
<option value='01'>01</option>
<option value='02'>02</option>
<option value='03'>03</option>
<option value='04'>04</option>
<option value='05'>05</option>
<option value='06'>06</option>
<option value='07'>07</option>
<option value='08'>08</option>
<option value='09'>09</option>
<option value='10'>10</option>
<option value='11'>11</option>
<option value='12'>12</option>
<option value='13'>13</option>
<option value='14'>14</option>
<option value='15'>15</option>
<option value='16'>16</option>
<option value='17'>17</option>
<option value='18'>18</option>
<option value='19'>19</option>
<option value='20'>20</option>
<option value='21'>21</option>
<option value='22'>22</option>
<option value='23'>23</option>
<option value='24'>24</option>
<option value='25'>25</option>
<option value='26'>26</option>
<option value='27'>27</option>
<option value='28'>28</option>
<option value='29'>29</option>
<option value='30'>30</option>
<option value='31'>31</option>
```

```

";

    for($i=date("Y"); $i<=date("Y")+6; $i++)
    {
        $year1 = $year1 . "<option value='$i'>$i</option>";
        $year2 = $year2 . "<option value='$i'>$i</option>";
    }

$pageContent = "
<script>
    function checkForm(form)
    {
        if(form.title.value == '')
        {
            alert('You have to fill the title field');
            form.title.focus();
            return false;
        }
        if(form.data.value == '')
        {
            alert('You have to fill the description field');
            form.data.focus();
            return false;
        }
        if(form.grade.value == '')
        {
            alert('You have to fill the grade field');
            form.grade.focus();
            return false;
        }

        return true;
    }
</script>

<form method="post"
action="show.php?page=inject&table=$tableName&classID=$classID"
onsubmit="return checkForm(this);">
    <table width="100%" cellpadding="0" cellspacing="0"
border="0">
        <tr><td colspan="2">
            <textarea name="data" id="wysiwyg" style="resize:
none; height:105px;" cols="94" rows="9">$data</textarea>
        </td></tr>
        <tr><td>

            <font color="#000000" size="2">Title:</font>
            <input name="title" style="width:500px;">

```



```

    }
    else
    {
        $lable = "Questions";
    }

    $data = $row[6];
    $showMethod = "none";
    $pageContent = "
        <form method=\"post\"
action=\"show.php?page=respond&table=$tableName&element=$id&classID=$c
lassID\">

            <table border=0 width=\"97%\" style=\"border-collapse:
collapse\" cellspacing=\"0\" cellpadding=\"0\">

                <tr>
                    <td width=\"10%\" valign='top'>
                        <font color=\"#000000\">$lable:</font>
                    </td>
                    <td>
                        <div style=\"width: 94%; padding:2px; height:80px;
background-color:#ffffff; border-color:#000000; overflow:auto; color:
#000000; border-width:1px; border-style:solid; margin-left:2px;\">
                            $data</div>
                        </td>
                    </tr>

                    <tr>
                        <td width=\"10%\" valign='top'>
                            <font color=\"#000000\">Student Response:</font>
                        </td>
                        <td>
                            <textarea name=\"data\" style=\"resize: none;
width:95%;\" rows=\"7\"></textarea>
                        </td>
                    </tr>

                    <tr>
                        <td colspan='2' align='center'>
                            <input type=\"submit\" value=\"SUBMIT\">
                        </td>
                    </tr>

                </table>

            </form>
        ";
}

```

```

//9 edit assignments and exams
else if (($page == "edit")&&($currentRank > 0))
{
    $tableName = $_GET['table'];
    $id = $_GET['id'];
    $classID = $_GET['classID'];

    $showMethod = "none";
    $result = mysql_query("SELECT * FROM $tableName WHERE id =
'$id'");
    $row = mysql_fetch_row($result);
    $title = $row[2];
    $start = $row[3];
    $end = $row[4];
    $grade = $row[5];
    $data = $row[6];

    $month1 = "
        <option value='01'>January</option>
        <option value='02'>February</option>
        <option value='03'>March</option>
        <option value='04'>April</option>
        <option value='05'>May</option>
        <option value='06'>June</option>
        <option value='07'>July</option>
        <option value='08'>August</option>
        <option value='09'>September</option>
        <option value='10'>October</option>
        <option value='11'>November</option>
        <option value='12'>December</option>
    ";

    $month2 = "
        <option value='01'>January</option>
        <option value='02'>February</option>
        <option value='03'>March</option>
        <option value='04'>April</option>
        <option value='05'>May</option>
        <option value='06'>June</option>
        <option value='07'>July</option>
        <option value='08'>August</option>
        <option value='09'>September</option>
        <option value='10'>October</option>
        <option value='11'>November</option>
        <option value='12'>December</option>
    ";
}

```

```
";  
$day1 = "  
  <option value='01'>01</option>  
  <option value='02'>02</option>  
  <option value='03'>03</option>  
  <option value='04'>04</option>  
  <option value='05'>05</option>  
  <option value='06'>06</option>  
  <option value='07'>07</option>  
  <option value='08'>08</option>  
  <option value='09'>09</option>  
  <option value='10'>10</option>  
  <option value='11'>11</option>  
  <option value='12'>12</option>  
  <option value='13'>13</option>  
  <option value='14'>14</option>  
  <option value='15'>15</option>  
  <option value='16'>16</option>  
  <option value='17'>17</option>  
  <option value='18'>18</option>  
  <option value='19'>19</option>  
  <option value='20'>20</option>  
  <option value='21'>21</option>  
  <option value='22'>22</option>  
  <option value='23'>23</option>  
  <option value='24'>24</option>  
  <option value='25'>25</option>  
  <option value='26'>26</option>  
  <option value='27'>27</option>  
  <option value='28'>28</option>  
  <option value='29'>29</option>  
  <option value='30'>30</option>  
  <option value='31'>31</option>  
";
```

```
$day2 = "  
  <option value='01'>01</option>  
  <option value='02'>02</option>  
  <option value='03'>03</option>  
  <option value='04'>04</option>  
  <option value='05'>05</option>  
  <option value='06'>06</option>  
  <option value='07'>07</option>  
  <option value='08'>08</option>  
  <option value='09'>09</option>  
  <option value='10'>10</option>  
  <option value='11'>11</option>  
  <option value='12'>12</option>  
  <option value='13'>13</option>
```

```

<option value='14'>14</option>
<option value='15'>15</option>
<option value='16'>16</option>
<option value='17'>17</option>
<option value='18'>18</option>
<option value='19'>19</option>
<option value='20'>20</option>
<option value='21'>21</option>
<option value='22'>22</option>
<option value='23'>23</option>
<option value='24'>24</option>
<option value='25'>25</option>
<option value='26'>26</option>
<option value='27'>27</option>
<option value='28'>28</option>
<option value='29'>29</option>
<option value='30'>30</option>
<option value='31'>31</option>
";

for($i=date("Y"); $i<=date("Y")+6; $i++)
{
    $year1 = $year1 . "<option value='$i'>$i</option>";
    $year2 = $year2 . "<option value='$i'>$i</option>";
}

$chunks1 = explode("-", $start);
$thisDay1 = $chunks1[1];
$thisMonth1 = $chunks1[2];
$thisYear1 = $chunks1[0];
$month1 = str_replace("$thisMonth1'", "$thisMonth1'selected",
$month1);
$day1 = str_replace(">$thisDay1", " selected>$thisDay1",
$day1);
$year1 = str_replace(">$thisYear1", " selected>$thisYear1",
$year1);

$chunks2 = explode("-", $end);
$thisDay2 = $chunks2[1];
$thisMonth2 = $chunks2[2];
$thisYear2 = $chunks2[0];

$month2 = str_replace("$thisMonth2'", "$thisMonth2'selected",
$month2);
$day2 = str_replace(">$thisDay2", " selected>$thisDay2",
$day2);
$year2 = str_replace(">$thisYear2", " selected>$thisYear2",
$year2);

```



```

//10 grade assignments and exams
else if (($page == "grade")&&($currentRank > 0))
{
    $showMethod = "none";
    $id = $_GET['id'];
    $tableName = $_GET['table'];
    $classID = $_GET['classID'];

    $result = mysql_query("SELECT * FROM $tableName WHERE id =
'id'");
    $row = mysql_fetch_row($result);

    $data = $row[6];

    $listOfResponses = "";

    if($tableName == "assignments")
    {
        $newTable = "submissions";
        $fieldName = "assignmentID";
    }
    else
    {
        $newTable = "answers";
        $fieldName = "examID";
    }

    $query = "SELECT * FROM $newTable WHERE $fieldName = $id ORDER BY
id ASC";
    $result = mysql_query($query);
    $innercounter = 0;
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $toShow = $row['content'];
        $grade = $row['grade'];
        $studentID = $row['studentID'];
        $toSendID = $row['id'];
        $result3 = mysql_query("SELECT fullname FROM users WHERE id =
'$studentID'");
        $row3 = mysql_fetch_row($result3);
        $studentName = $row3[0];

        $remainder = $innercounter%2;

        if($remainder == 0)
        $thieBgColor = "#CEE4F5";
        else

```



```

                <div style=\"width: 350px; padding:0px; height:
230px; overflow: auto; color: #000000;\">
                    $listOfResponses
                </div>
            </td>
        </tr>

    </table>

    </form>
";
}

//11 update assignments and exams
else if(($page == "update")&&($currentRank > 0))
{
    $data = $_POST['data'];
    $id = $_GET['id'];
    $classID = $_GET['classID'];
    $tableName = $_GET['table'];
    $fieldName = $_GET['field'];

    if($tableName == "info")
    {
        $m = "classID";
        $n = $classID;
    }
    else
    {
        $m = "id";
        $n = $id;
        $start = $_POST['year1'] . '-' . $_POST['day1'] . '-' .
$_POST['month1'];
        $end = $_POST['year2'] . '-' . $_POST['day2'] . '-' .
$_POST['month2'];
        $grade = $_POST['grade'];
        $title = $_POST['title'];
        mysql_query("UPDATE $tableName SET `name` = '$title' WHERE
`id` = '$n'");
        mysql_query("UPDATE $tableName SET `start` = '$start' WHERE
`id` = '$n'");
        mysql_query("UPDATE $tableName SET `end` = '$end' WHERE `id` =
'$n'");
        mysql_query("UPDATE $tableName SET `grade` = '$grade' WHERE
`id` = '$n'");
    }
}

```



```

    }

    mysql_query("UPDATE $tableName SET ` $fieldName ` = '$data' WHERE
` $m ` = '$n'");
    echo "
    <script>alert('Your changes were successfully saved');</script>
    <meta http-equiv=\"refresh\"
content=\"0;url=show.php?classID=$classID&page=$tableName\">
    ";
}

//12 add assignments and exams to the database
else if (($page == "inject")&&($currentRank > 0))
{
    $tableName = $_GET['table'];
    $classID = $_GET['classID'];

    $start = $_POST['year1'] . '-' . $_POST['day1'] . '-' .
$_POST['month1'];
    $end = $_POST['year2'] . '-' . $_POST['day2'] . '-' .
$_POST['month2'];
    $grade = $_POST['grade'];
    $title = $_POST['title'];
    $desc = $_POST['data'];

    $newID = 0;
    $query = "SELECT id FROM $tableName ORDER BY id ASC";
    $result = mysql_query($query);
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $newID = $row['id'];
    }
    $newID++;

    mysql_query("INSERT INTO $tableName VALUES ('$newID', '$classID',
'$title', '$start', '$end', '$grade', '$desc')");

    echo "
    <script>alert('You have successfully added $title');</script>
    <meta http-equiv=\"refresh\"
content=\"0;url=show.php?classID=$classID&page=$tableName\">
    ";
}

```

```
}

```

```
//13 delete assignments and exams from the database
else if (($page == "drop")&&($currentRank > 0))
{
    $tableName = $_GET['table'];
    $id = $_GET['id'];
    $classID = $_GET['classID'];

    mysql_query("DELETE FROM $tableName WHERE id=$id");

    if($tableName == "assignments")
    {
        $newTable = "submissions";
        $fieldName = "assignmentID";
    }
    else
    {
        $newTable = "answers";
        $fieldName = "examID";
    }

    mysql_query("DELETE FROM $newTable WHERE $fieldName=$id");

    echo "<meta http-equiv=\"refresh\"
content=\"0;url=show.php?classID=$classID&page=$tableName\">";
}

```

```
//14 take exams
else if (($page == "respond")&&($currentRank < 1))
{
    $tableName = $_GET['table'];
    $classID = $_GET['classID'];
    $data = $_POST['data'];
    $elementID = $_GET['element'];

    if($tableName == "assignments")
    $newTable = "submissions";
    else

```

```

$newTable = "answers";

$newID = 0;
$query = "SELECT id FROM $newTable ORDER BY id ASC";
$result = mysql_query($query);
while($row = mysql_fetch_array($result, MYSQL_ASSOC))
{
    $newID = $row['id'];
}
$newID++;

mysql_query("INSERT INTO $newTable VALUES ('$newID', '$myID',
'$elementID', '$data', '0')");

echo "
<script>alert('Your response was successfully
submitted');</script>
<meta http-equiv=\"refresh\"
content=\"0;url=show.php?classID=$classID&page=$tableName\">
";
}

//15 save grades
else if (($page == "grader")&&($currentRank > 0))
{
    $tableName = $_GET['table'];
    $classID = $_GET['classID'];
    $elementID = $_GET['element'];
    $total = $_GET['total'];

    if($tableName == "assignments")
    $newTable = "submissions";
    else
    $newTable = "answers";

    $counter = 0;

    while ($counter < $total){
        $thisGrade = $_POST["grade_$counter"];
        $thisID = $_POST["id_$counter"];
        mysql_query("UPDATE $newTable SET `grade` = '$thisGrade' WHERE
`id` = '$thisID'");
        $counter++;
    }

    echo "
<script>alert('Grades were successfully saved');</script>
<meta http-equiv=\"refresh\"

```

```

content="\0;url=show.php?page=grade&table=$tableName&id=$elementID&classID=$classID\">
    ";
}

```

```

//16 unknown page, show error
else
{
    echo "
    <meta http-equiv=\"refresh\"
content="\0;url=show.php?classID=$classID\">
    ";
}

```

```
$body = "
```

```

<link rel=\"stylesheet\" href=\"js/jquery.wysiwyg.css\"
type=\"text/css\" />
<script type=\"text/javascript\" src=\"js/jquery-1.3.2.js\"></script>
<script type=\"text/javascript\"
src=\"js/jquery.wysiwyg.js\"></script>

```

```
<script type=\"text/javascript\">
```

```

if (typeof window.event != 'undefined')
    document.onkeydown = function()
    {
        if (event.srcElement.tagName.toUpperCase() != 'INPUT')
            return (event.keyCode != 8);
    }

```

```

else
    document.onkeypress = function(e)
    {
        if (e.target.nodeName.toUpperCase() != 'INPUT')
            return (e.keyCode != 8);
    }

```

```

</script>
<script type=\"text/javascript\">
$(function()
{
    $('#wysiwyg').wysiwyg();
});
</script>

```

```

<style type=\"text/css\">
.class1 A:link {text-decoration: none; color: #126B70;}
.class1 A:visited {text-decoration: none; color: #126B70;}
.class1 A:active {text-decoration: none; color: #126B70;}
.class1 A:hover {text-decoration: none; color: #126B70;}
</style>

<div align=\"center\">

<table width=\"700\" cellpadding=\"0\" cellspacing=\"0\" border=\"0\">
<tr>

    <td align=\"left\">
        <H4>User: $fullname<br>Rank: $myRule<br>Class: $className</H4>
    </td>
    <td align=\"right\">
        <a href='view.php'><img border=\"0\"
src=\"images/list.jpg\"></a>
        <a href='logout.php'><img border=\"0\"
src=\"images/logout.jpg\"></a>
    </td>

</tr>

<tr>
<td colspan=\"2\">
    $vvv
    <table width=\"100%\" cellpadding=\"0\" cellspacing=\"0\"
border=\"0\">
    <tr>
    <td bgcolor=\"#dadada\">
        <div style=\"width: 100%; padding:9px; height:
$areaHeight; overflow: $showMethod; color: #000000; line-
height:150%;\">
            <div class=\"class1\">
                $pageContent
            </div>
        </div>
    </td>
    </tr>
    </table>

</tr>
</table>
</div>

";

```

```
echo $t01 . $header . $t02 . $body . $t03 . $footer . $t04;  
mysql_close($conn);  
?>
```

email1.php

```

<?php

include 'config.php';
$conn = mysql_connect($dbhost, $dbuser, $dbpass);
mysql_select_db($dbname);

echo "
<table width='100%' border='0' cellpadding='5' cellspacing='0'>
";

$id = $_GET['id'];

    $counter = 0;
    $query = "SELECT * FROM email WHERE to1 = '$id' ORDER BY date
DESC";
    $result = mysql_query($query);
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $from = $row['from1'];
        $date = $row['date'];
        $subject = $row['subject'];
        $emailID = $row['id'];

        $result2 = mysql_query("SELECT fullname FROM users WHERE
id = '$from'");
        $row2 = mysql_fetch_row($result2);
        $senderName = $row2[0];

        $remainder = $counter%2; if($remainder == 0) $mycolor
="#dadada"; else $mycolor = "#f2f2f2";

        echo "
        <tr bgcolor='$mycolor'>
        <td width='30%'>
        $senderName
        </td>
        <td>
        <a href='email3.php?id=$emailID&myID=$id'>$subject</a>
        </td>
        <td width='20%'>
        Date: $date
        </td>
        <td width='5%'>
            <input type='button' value='DELETE'
onClick=\"window.location='email4.php?id=$id&emailID=$emailID'\">
        </td>
        </tr>

```

```
        ";
        $counter++;
    }

    if($counter < 1)
    echo "<tr><td>You don't have any emails</td></tr>";

echo "
</table>
";

mysql_close($conn);
?>
```


email2.php

```

<?php

include 'config.php';
$conn = mysql_connect($dbhost, $dbuser, $dbpass);
mysql_select_db($dbname);

$id = $_GET['id'];

echo "

<form method='POST' action='email5.php?id=$id'>
  <p>Send To: <select name='to'>
";

    $query = "SELECT * FROM users ORDER BY fullname ASC";
    $result = mysql_query($query);
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $userID = $row['id'];
        $userFullname = $row['fullname'];
        echo "<option value='$userID'>$userFullname</option>";
    }

echo "
</select>
</p>
  <p>Subject: <input type='text' name='subject' size='20'></p>
  <p><textarea name='message' style='width:100%;
height:120px;'></textarea></p>
  <p><input type='submit' value='Submit' name='B1'></p>
</form>
";

?>

```

email3.php

```
<?php

include 'config.php';
$conn = mysql_connect($dbhost, $dbuser, $dbpass);
mysql_select_db($dbname);

$id = $_GET['id'];
$myID = $_GET['myID'];

    $result = mysql_query("SELECT content, attachment FROM email WHERE
id = '$id'");
    $row = mysql_fetch_row($result);
    $content = $row[0];
    $attachment = $row[1];

echo "
<center><input type='button' value='DONE'
onClick=\"window.location='email1.php?id=$myID'\"></center>
<br>
$content
<br>
$attachment
";

?>
```

email4.php

```
<?php
```

```
include 'config.php';  
$conn = mysql_connect($dbhost, $dbuser, $dbpass);  
mysql_select_db($dbname);
```

```
$id = $_GET['id'];  
$emailID = $_GET['emailID'];
```

```
mysql_query("DELETE FROM email WHERE id=$emailID");  
echo "<meta http-equiv=\"refresh\"  
content=\"0;url=email1.php?id=$id\">";
```

```
?>
```

email5.php

```
<?php

include 'config.php';
$conn = mysql_connect($dbhost, $dbuser, $dbpass);
mysql_select_db($dbname);

$id = $_GET['id'];
$to = $_POST['to'];
$subject = $_POST['subject'];
$message = $_POST['message'];
$date = date("Y-m-d");

    $newID = 0;
    $query = "SELECT id FROM email ORDER BY id ASC";
    $result = mysql_query($query);
    while($row = mysql_fetch_array($result, MYSQL_ASSOC))
    {
        $newID = $row['id'];
    }
    $newID++;

    mysql_query("INSERT INTO email VALUES ('$newID', '$id', '$to',
'$date', '$subject', '$message', '')");

echo "<meta http-equiv=\"refresh\"
content=\"0;url=email1.php?id=$id\">";

?>
```

help.php

```

<?php

include 'includes/config.php';
include 'includes/session.php';
include_once 'includes/template.php';

$footer = $footerDisabled;

$currentRank = $_SESSION['rank'];
if($currentRank >= 0)
{
    echo "<meta http-equiv=\"refresh\" content=\"0;url=view.php\">";
}

$body = "

<div align=\"center\">

<table width=\"700\" cellpadding=\"0\" cellspacing=\"0\" border=\"0\">
<tr>

<td align=\"left\">
<H1>Help Information</h1>
    <div style=\"width: 100%; padding:9px; height: 180px; overflow:
    auto; line-height:150%;\">

        In order to access your classes, you have to have an account.
        Please follow these steps to setup your account:

        <ul>
        <li>Go to the registration page.</li>
        <li>Enter your desired username and password.</li>
        <li>Enter your ID number.</li>
        <li>Enter your social security number</li>
        <li>Click on the OK button and you will be taken to the
        verification page.</li>
        <li>Confirm your identity by reviewing the displayed
        information.</li>
        <li>Click Ok to be logged in.</li>
        <li>If you are having any difficulties creating with the
        registration process, please contact your instructor.
        </ul>

    </div>
    <div align=\"right\"><a href='index.php'><img border=\"0\"
    src=\"images/menu.jpg\"></a></div>

```

```
</td>
```

```
</tr>
```

```
</table>
```

```
</div>
```

```
";
```

```
echo $t01 . $header . $t02 . $body . $t03 . $footer . $t04;
```

```
?>
```

includes/session.php

<?php

```
// Start Session  
session_start();
```

```
if (!session_is_registered('username')) {  
    session_register('username');  
    session_register('rank');  
    session_register('id');  
    $_SESSION['rank'] = -1;  
}
```

?>

includes/template.php

```

<?php

$thisID = $_GET['classID'];
$dashboard = "
<table width=\"700\" height=\"100%\" border=\"0\" cellpadding=\"4\"
cellspacing=\"0\">
  <tr>
    <td valign=\"bottom\">
      <a href=\"show.php?classID=$thisID&page=home\">
        <img src=\"images/bu1.jpg\" border=\"0\">
      </a>
    </td>
    <td valign=\"bottom\">
      <a href=\"show.php?classID=$thisID&page=notes\">
        <img src=\"images/bu2.jpg\" border=\"0\">
      </a>
    </td>
    <td valign=\"bottom\">
      <a href=\"show.php?classID=$thisID&page=assignments\">
        <img src=\"images/bu3.jpg\" border=\"0\">
      </a>
    </td>
    <td valign=\"bottom\">
      <a href=\"show.php?classID=$thisID&page=exams\">
        <img src=\"images/bu4.jpg\" border=\"0\">
      </a>
    </td>
    <td valign=\"bottom\">
      <a href=\"show.php?classID=$thisID&page=communicate\">
        <img src=\"images/bu5.jpg\" border=\"0\">
      </a>
    </td>
    <td valign=\"bottom\">
      <a href=\"show.php?classID=$thisID&page=grades\">
        <img src=\"images/bu6.jpg\" border=\"0\">
      </a>
    </td>
  </tr>
</table>
";

$footerDisabled = "Please login to view your classes";
$footerWaiting = "Setup your account in order to get access to your
classes";
$footerWelcome = "Welcome to your dashbord";
$footerEnabled = $dashboard;

```



```

$t01 = "
<html>
<title>iTeach</title>

<head>

</head>

<body bgcolor=\ "#383f49\" vlink=\ "#ffffff\" link=\ "#ffffff\"
text=\ "#ffffff\" topmargin=\ "0\" bottommargin=\ "0\" leftmargin=\ "0\"
rightmargin=\ "0\">

<div align=\ "center\">
<table width=\ "100%\" height=\ "100%\" border=\ "0\" cellpadding=\ "0\"
cellspacing=\ "0\">

<tr>
<td valign=\ "top\">;

$t02 = "</td>
</tr>

<tr>
<td valign=\ "top\" height=\ "100%\">;

$t03 = "
</td>
</tr>

<tr>
<td valign=\ "top\">
<table width=\ "100%\" height=\ "40\" border=\ "0\" cellpadding=\ "0\"
cellspacing=\ "0\">
<tr bgcolor=\ "#075d74\">
<td width=\ "100%\" align=\ "center\">
";

$t04 = "
</td>
</tr>
</table>
</td>
</tr>

</table>
</div>
</html>
";

```

```

$header = "
<table width=\"100%\" border=\"1\" cellpadding=\"0\"
cellspacing=\"0\">
<tr bgcolor=\"#075d74\">
<td width=\"100%\" bgcolor=\"#075d74\">
<script>
var mydate=new Date()
var year=mydate.getYear()
if (year < 1000)
year+=1900
var day=mydate.getDay()
var month=mydate.getMonth()
var daym=mydate.getDate()
if (daym<10)
daym=\"0\"+daym
var dayarray=new
Array(\"Sunday\", \"Monday\", \"Tuesday\", \"Wednesday\", \"Thursday\", \"F
riday\", \"Saturday\")
var montharray=new
Array(\"January\", \"February\", \"March\", \"April\", \"May\", \"June\", \"
July\", \"August\", \"September\", \"October\", \"November\", \"December\")
document.write(\"&nbsp;&nbsp;&nbsp;&nbsp;<font color='#ffffff' size='2'
face='Verdana'>\"+dayarray[day]+\", \"+montharray[month]+\
\"+daym+\", \"+year+\</font>\")
</script>
</td>
<td bgcolor=\"#075d74\">

    <input type=\"label\" size=\"11\" name=\"Clock\" style=\"color:
#FFFFFF; font-family: Verdana; font-size: 12px; background-color:
#075d74; border:0px;\>
    <script>
    <!--
    function show(){
    var Digital=new Date()
    var hours=Digital.getHours()
    var minutes=Digital.getMinutes()
    var seconds=Digital.getSeconds()
    var dn=\"AM\"
    if (hours>12){
    dn=\"PM\"
    hours=hours-12
    }
    if (hours==0)
    hours=12
    if (minutes<=9)
    minutes=\"0\"+minutes
    if (seconds<=9)
    seconds=\"0\"+seconds

```

```
document.form[0].Clock.value=hours+"\":"+minutes+"\":"+seconds+"\n \n"+dn
setTimeout("\nshow()\n",1000)
}
show()
//-->
</script>
</td>
</tr>

</table>
";

?>
```