

EAST WEST UNIVERSITY

Online Advising and Student Forum

By

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The project has been submitted to the Department of the Computer Science & Engineering at East West University in the partial fulfillment of the requirement for the degree of Bachelor of Science in Computer Science and Engineering.

16 September, 2015

DECLARATION

The project has been submitted to the Department of the Computer Science & Engineering, East West University in the partial fulfillment of the requirement for the degree of Bachelor of Science in CSE performed by me under supervision of Associate Professor Dr. Md. NawabYousuf Ali, Dept of CSE at East West University. This is also needed to certify that, the project work under the course '**Project Work (CSE-499)**'. I, hereby, declare that this project has not been submitted elsewhere for the requirement of any degree or diploma or any other purposes.

Signature of the candidate

(RobiulKabirAshik)

Letter of Acceptance

The Project entitled **Online Advising and student forum** submitted By RobiulKabirAshik, Id :2011-1-60-001 to the department of computer Science and Engineering, East West University, Dhaka Bangladesh is accepted as satisfactory for the partial fulfillment of the of the requirement for the degree of Bachelor of Science in Computer Science and Engineering on September 10, 2015.

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Abstract

In this project, we develop a design of an online advising and student forum. We have to develop this system for the students of East West University. We believe this online management system will definitely help the students of East West University so they can finish their advising at their home or they don't need to come campus and stay in a queue. We have analyzed the included necessary functions in our system.

In my project there is login system for students for advising. A student forum where student can registration and login in to forum. In the forum a student can write post, comment on a post.

ACKNOWLEDGEMENTS

It has been great pleasure for me to develop a Website for **Online Advising and Student Forum**. I have gathered sufficient knowledge and experience during this project.

I would like to thank my honorable teacher and supervisor of this project, Dr. Md. NawabYousuf Ali, Associate Professor, Department of Computer Science and Engineering, East West University who guided me to proper analysis of the system and helped to develop an elegant and efficient system.

It was a great pleasure to study and work with many gifted people who influenced us in many ways. First of all, I would like to thank my project Supervisor Dr. Md. NawabYousuf Ali. He does not only give me the great idea, but also encouraged me to seek out the clearest and deepest description of theoretical ideas as well as experimental findings. I am very grateful to him for his continuous support, advice and guidance.

Finally I would like to convey my special thanks to my parents whom have always given me tremendous support. Without their love and encouragement .I would not had achieve this far.

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Chapter 1

Introduction

This website is developed for only the students of East West University Bangladesh. This website can help the students by providing the system of online advising and student forum. Online advising will help the students to complete his/her advising from anywhere. He/she not need to come the campus. Student forum will help both faculty and the students to share any notice or students can post their thoughts and ask their questions about study.

1.1 Motivation:

For my project I consider the online advising and student forum as my target object. In our university there is advising system but there are some limitations such as:

- Our advising system is not online based, so students face many problems like sometimes we cannot reach in time so we don't find our preferred subject and section.
- Students have to wait in a queue for a long time.
- Faculties also get tired by doing all day advising.

1.2 Purpose of the Project

The system tends to replace the existing system for the advising process which is not efficient, lengthy process and time consuming. This system is more user friendly than existing system that is why students can easily access the system and complete advising through online and ask their query at student forum. Not only the students but also the faculties can easily post any information and notice. The main purpose of the system will be efficient candidate online advising, consume time for both faculties and students, share any information and notice by faculties and students

1.3 Objective

An online advising and student forum system where the students are already in university database so they only have to login for advising. In student forum students have to register in the database and after login they can post anything.

1.4 Scope

This system provides the students to login and complete advising and also shows the other options inside advising system. Following are the scopes of the developed system that are elaborately discussed:

➤ For Student:

- **Insert Detail:** A student can register and can insert details for the student forum system.
- **Submit post:** A student can submit a post and also can give a comment on that post.

1.5 Outline

- Introduction
- Existing System
- Requirement Analysis
- Design Specification
- Conclusion and Future work

Chapter 2

Existing System

2.1 Existing Feature:

The features of the existing systems are listed below:

- View and edit the information from the database
- View and comment on any post.
- Consult on any topic on forum site.
- Online advising per credit system. Those who's credit is higher he/she will get the opportunity to advising first.

2.2 Proposed System:

The proposed system will provide the following activates of the users:

Employee Activities:

- Students can Registration in the forum.
- Students can post anything related to study.
- Students can post comments on any topic.
- Students can complete their advising through online at their fixed time.

Chapter 3

Requirement Analysis

3.1 Requirement Analysis:

This web based system required the following requirements

3.1.1 Data Requirement

During requirement analysis the following data have been identified for a advising and forum system:

- To give a post or to comment on a post a student must login in to website but they also have to be registered user. If not registered then he/she has to register on the website. They can login to the system from the web using their id and password.
- A student can post something after login.
- A student can comment on any post.
- A student can view all the other comments.
- For advising system all the students are inserted in the university database.
- Students has to login before advising, after login advising option will be shown.
- A student can choose subjects that were offered by university and there are multiple sections for some course.
- After advising students can view their subjects that choose by them.

3.1.2 Process Requirement

The following process requirements are identified for the advising system:

- A valid login is required for all process to be performed. A valid login is required for every user who are inserted into the university database. All of them have a valid user id and password. System will authenticate their valid login.

- After valid login students can choose subject and view their advising script.

3.2 Physical Design

The physical design relates to the actual input and output processes of the system. This is laid down in terms of how data is input into a system, how it is verified or authenticated, how it is processed, and how it is displayed as In Physical design; the following requirements about the system are decided.

- Input requirements
- Output requirements
- Storage requirements
- Processing Requirements

Put another way, the physical portion of systems design can generally be broken down into three subtasks-

- User Interface Design
- Data Design
- Process Design

3.3 Use Case Diagram

3.3.1 Use Case Diagram for Login System

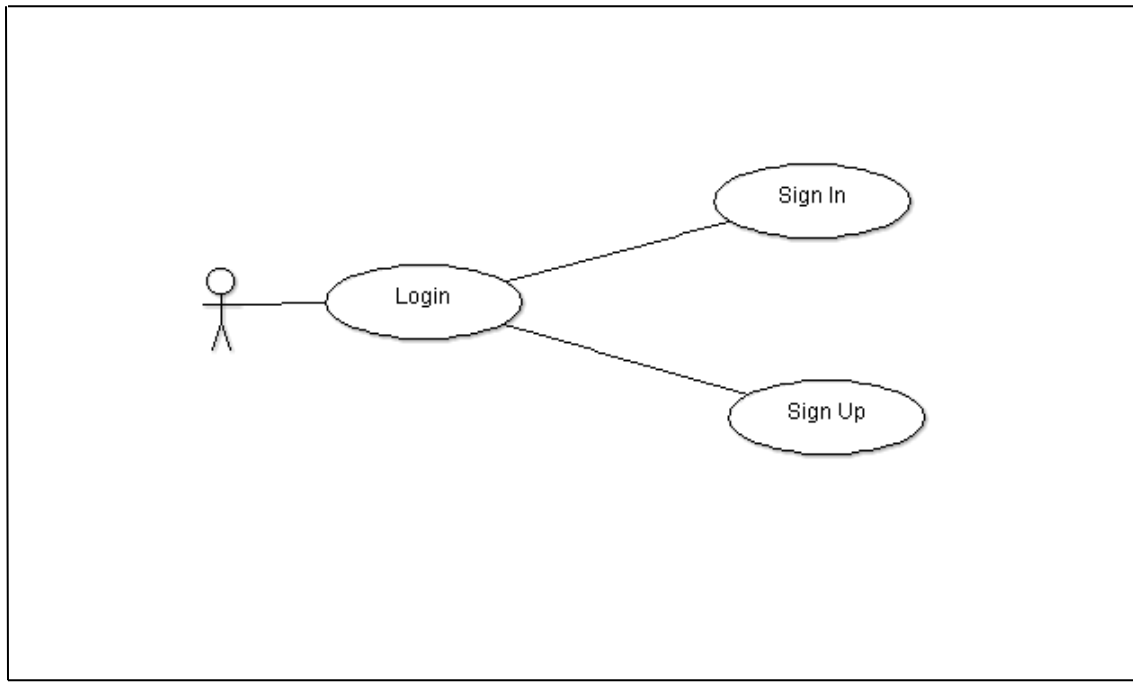


Figure 1: The use case diagram for login system

Description: This is the use case diagram of a student login system for the student forum. This diagram shows which works are done by the login system.

- **Sign up:** To post or give a comment on a post a student must sign up on the web site and have to be a registered member.
- **Sign in:** After sign up a student can sign in the web site and view/post/comment on a post.

3.3.2 Use Case Diagram for Advising Student Login

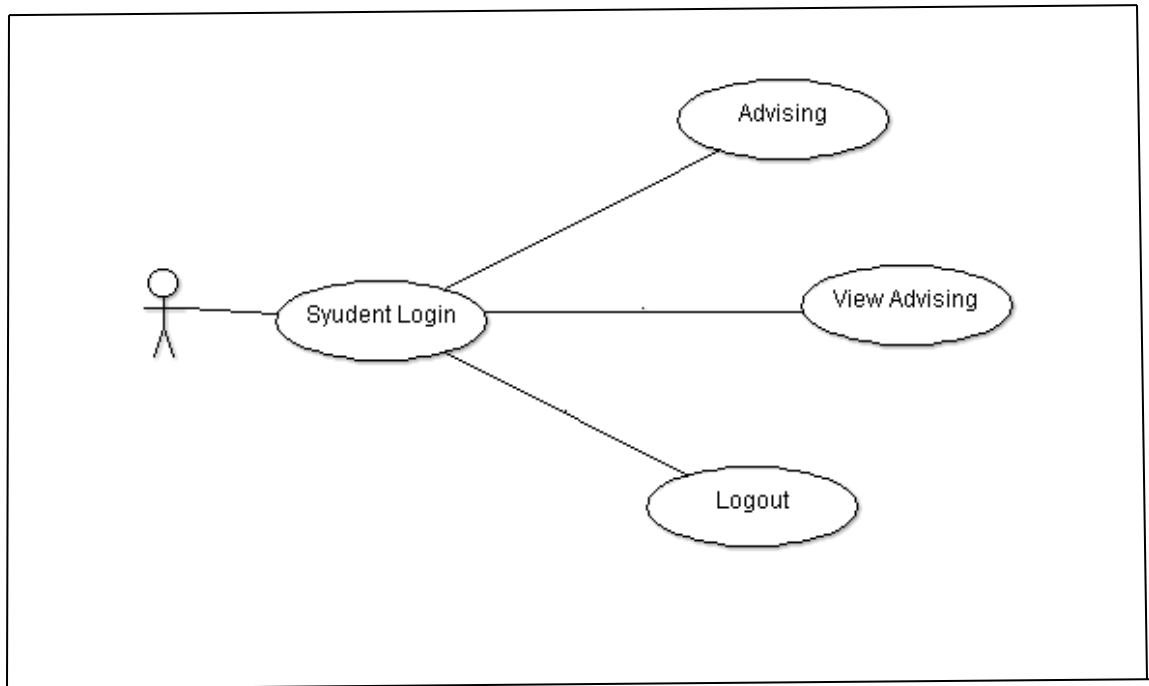


Figure 2: The use case diagram for Advising Student Login

Description: This is the use case diagram for student advising login page. This diagram shows which options are there for the students.

- **Advising:** The advising option offers the student to enter there advising subject choose page. Where they can choose their subject, some subjects have multiple sections.
- **View Advising:** After successful advising a student can view his/her subjects that he/she choose.
- **Logout:** This option turns back to the main page.

3.3.3 Activity Diagram for Post system:

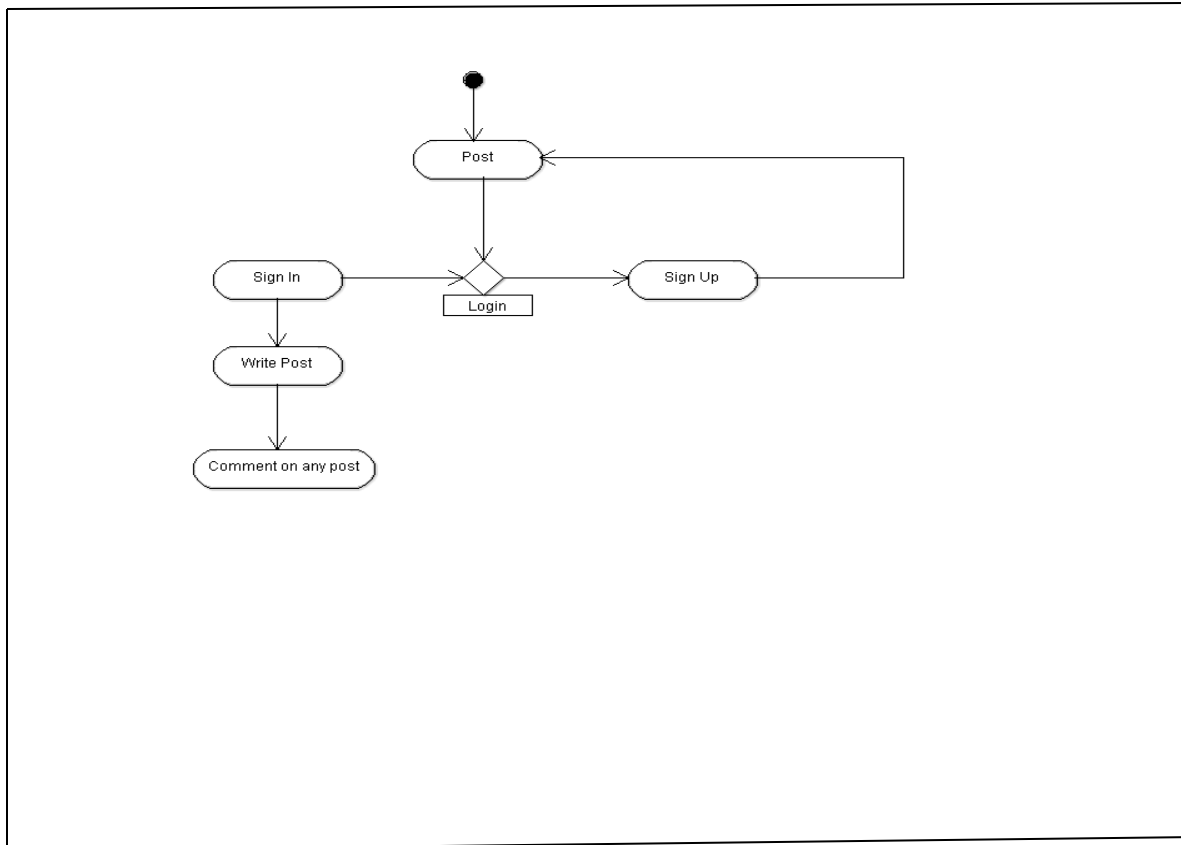


Figure 3: The activity diagram for post system

Description: This is the activity diagram of post system. This diagram shows which options are in the post system. A student first login in to the system to write a post. If he/she is not a registered user then first he/she has to sign up to the web site then a user can write a post and also can give comments on a post.

3.3.4 Activity Diagram for Advising system:

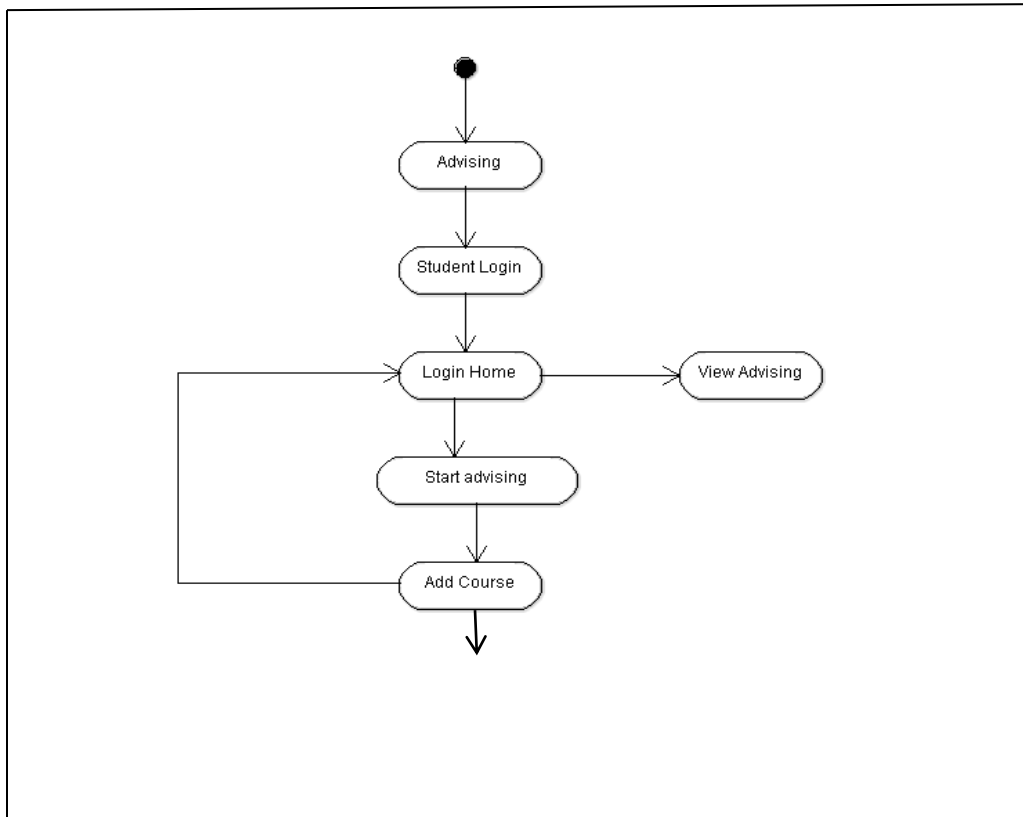


Figure 4:The activity diagram for Advising system

Description: This diagram shown the steps of advising. Which step comes next that is shown by this diagram.

3.4 Software requirements

For installing the system, we mainly required the following software, installed on the hosting system.

3.4.1 Web Server

- Apache (Xampp server v 3.2.1)

3.4.2 Database Language:

- MySQL

3.4.3 Server Side Language

- Php

3.4.4 Visual Design

- Sublime Text

3.5 Software Implementation

To implement this software the tools are used fully open sources. So that there are no costing involves developing this software. For designing this project HTML, CSS, JAVASCRIPT are used which is open source. Apache web server is used as web server. PHP is used for database coding. MySQL is used as database server.

3.5.1 HTML

HTML is short form of **Hyper Text Markup Language** and it is a language that are used to create electronic documents, especially pages on the World Wide Web that contain connections called hyperlinks to other pages. Every web page you see on the Internet, including this one contains HTML code that helps format and show text and images in an easy to read format. Without HTML a browser would not know how to format a page and would only display plain text with no formatting that contained no links. [1]

3.5.2 PHP

PHP is probably the most popular scripting language on the web. It is used to enhance web pages. With PHP, you can do things like create username and password login pages, check details from a form, create forums, picture galleries, surveys, and a whole lot more. If you've come across a web page that ends in PHP, then the author has written some programming code to liven up the plain, old HTML. PHP is known as a server-sided language. That's because the PHP doesn't get executed on your computer. But on the computer you requested the page from. The results are then handed over to you, and displayed in your browser. [2]

3.5.3 PHP CodeIgniter Framework

CodeIgniter is an Application Development Framework - a toolkit - for people who build web sites using PHP. Its goal is to enable to develop projects much faster than you could if you were writing code from scratch, by providing a rich set of libraries for commonly needed tasks, as well as a simple interface and logical structure to access these libraries. Code Igniter lets you creatively focus on your project by minimizing the amount of code needed for a given task. [3]

3.5.5 Apache Server (XAMPP)

The Apache HTTP Server, commonly referred to as Apache is a web server application notable for playing a key role in the initial growth of the World Wide Web. Apache is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation. Most commonly used on a Unix-like system, the software is available for a wide variety of operating systems, including Unix, FreeBSD, Linux, Solaris, Novell NetWare, OS X, Microsoft Windows, OS/2, TPF, OpenVMS and eComStation. Released under the Apache License, Apache is open-source software.

3.5.6 Editor (Sublime Text)

Sublime Text is the web development tool that lets you efficiently design, develop and maintain standards-based websites and applications. **Sublime text** provides a powerful combination of visual layout tools, application development features, and code editing support.

3.6 Database Implementation

After getting the requirement of a logical design and physical design of our database, we can move to the implementation stage. In general, implementing our physical design involves defining the various objects and enforcing the constraints on the data relationships.

3.6.1 Database of sign up and login Information:

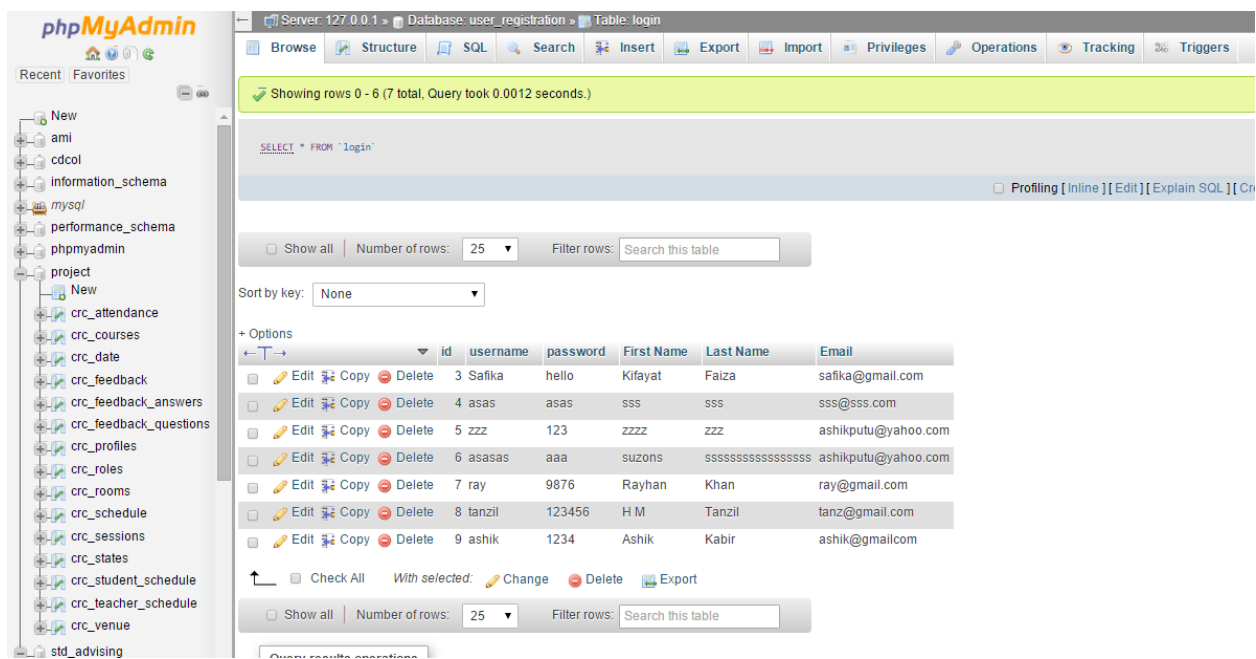


Figure 5: Database of sign up and login Information

Description: This database stores the information of new and existed users.

3.6.2 Database of post title, post id and post description Information:

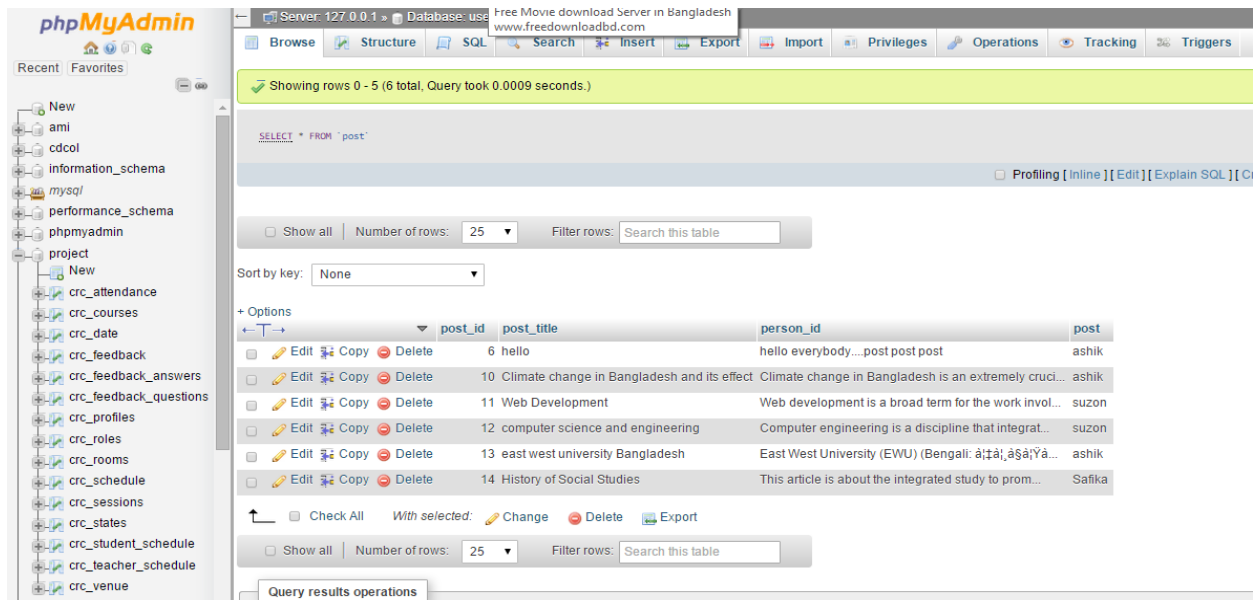
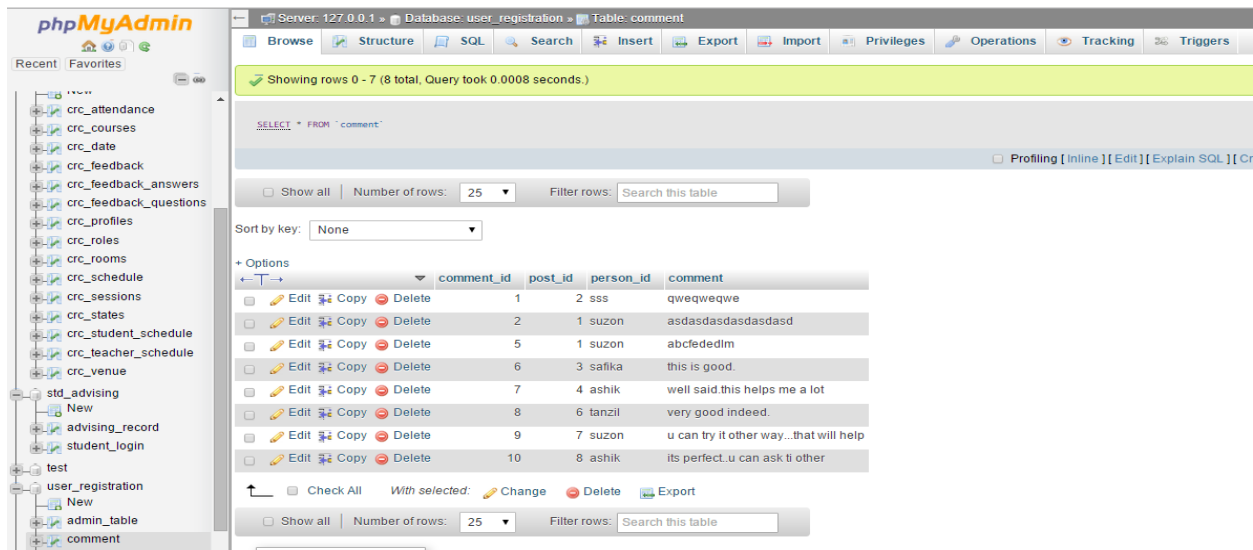


Figure 6: Database of post title, post id and post description Information

Description: This database stores the information of all post given by the users and user name.

3.6.3 Database of comment Information:



The screenshot displays the phpMyAdmin interface for the 'comment' table. The table structure is as follows:

comment_id	post_id	person_id	comment
1	2	sss	qweqweqwe
2	1	suzon	asdasdasdasdasd
5	1	suzon	abcfedfdm
6	3	safika	this is good.
7	4	ashik	well said this helps me a lot
8	6	tanzil	very good indeed.
9	7	suzon	u can try it other way...that will help
10	8	ashik	its perfect. u can ask it other

Figure 7 Database of comment Information

Description: This database stores the information of all the comments given by the user and also the user name of the person who comments on the post.

3.6.4 Database of Student login Information:

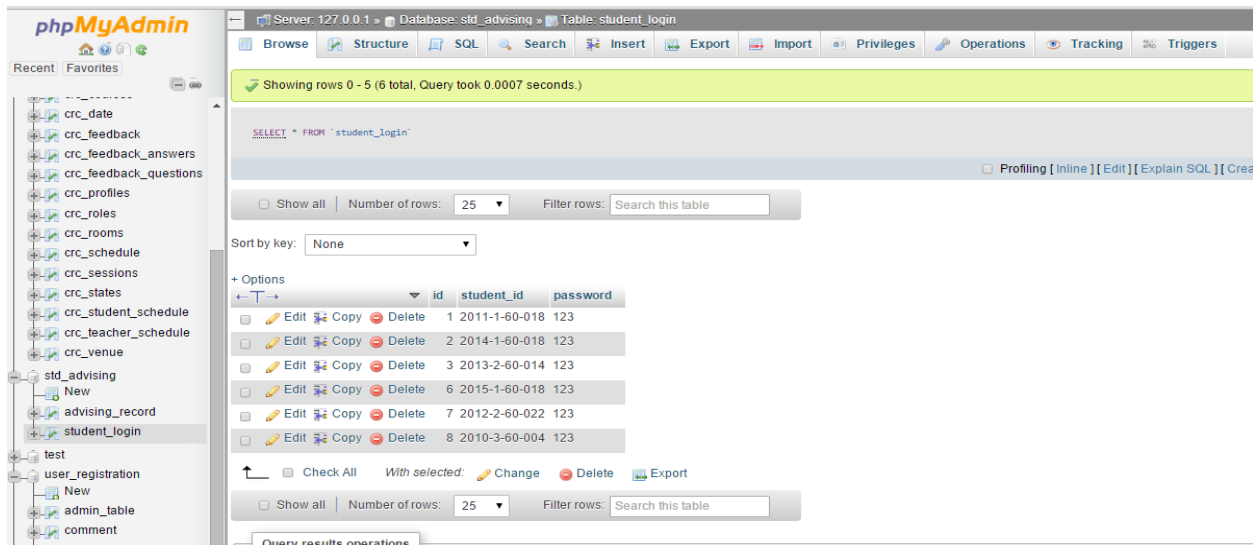
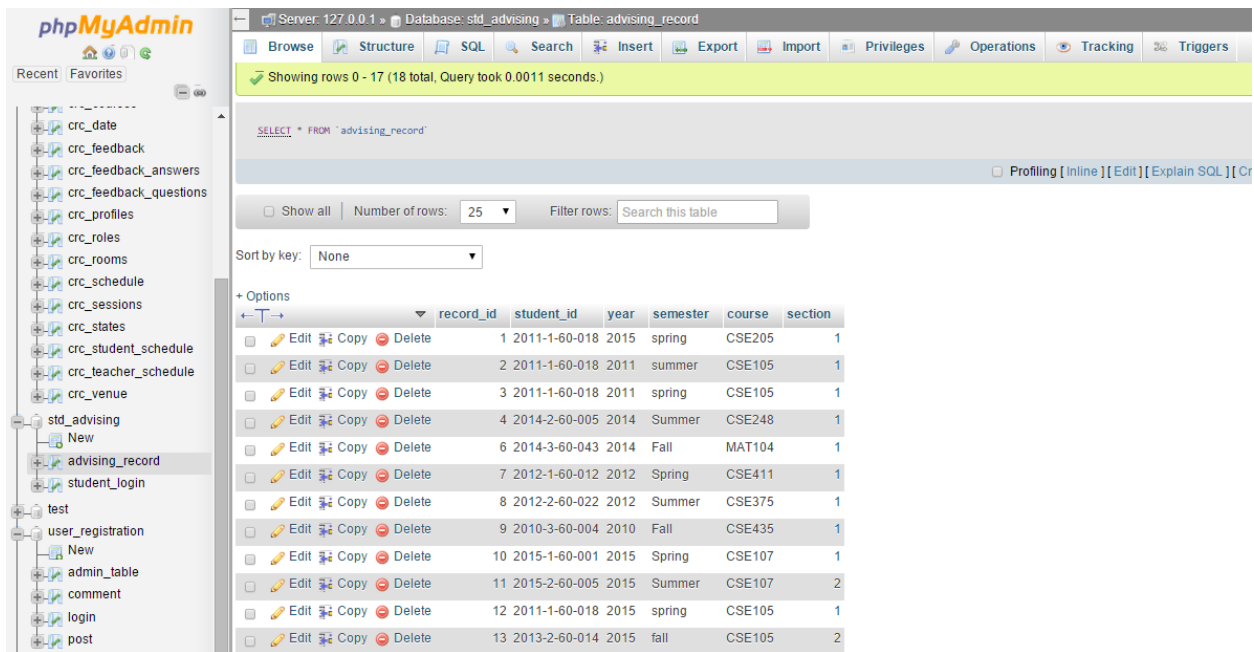


Figure 8: Database of Student login Information

Description: This database stores the student id and password given by the student.

3.6.5 Database of Student Advising record Information:



The screenshot shows the phpMyAdmin interface for the 'std_advising' database. The 'advising_record' table is selected, and its data is displayed in a table format. The table has 13 rows and 6 columns: record_id, student_id, year, semester, course, and section. Each row includes action buttons for Edit, Copy, and Delete.

record_id	student_id	year	semester	course	section
1	2011-1-60-018	2015	spring	CSE205	1
2	2011-1-60-018	2011	summer	CSE105	1
3	2011-1-60-018	2011	spring	CSE105	1
4	2014-2-60-005	2014	Summer	CSE248	1
6	2014-3-60-043	2014	Fall	MAT104	1
7	2012-1-60-012	2012	Spring	CSE411	1
8	2012-2-60-022	2012	Summer	CSE375	1
9	2010-3-60-004	2010	Fall	CSE435	1
10	2015-1-60-001	2015	Spring	CSE107	1
11	2015-2-60-005	2015	Summer	CSE107	2
12	2011-1-60-018	2015	spring	CSE105	1
13	2013-2-60-014	2015	fall	CSE105	2

Figure 9: Database of Student Advising record Information

Description: This database stores all the information of advising of a student. Like the subject, section, course code, semester of the course.

Chapter 4

Design Specification

4.1 Interface

A critical aspect of systems design is to create the user interface to the new system. Input and output design focuses on the content of that interface – the specific fields that should be included in screens and reports that are viewed by the users. Once the content is determined, the format for human-computer interaction (HCI) is determined. The user interface (UI) is the way the system talks to the users, using screens/forms, reports, and error messages. During interface design developers identify procedures for each system activity and the required inputs for those activities. These required inputs become screens or forms. User involvement is critical during these design activities.

4.2 User Interface

4.2.1 Home Page

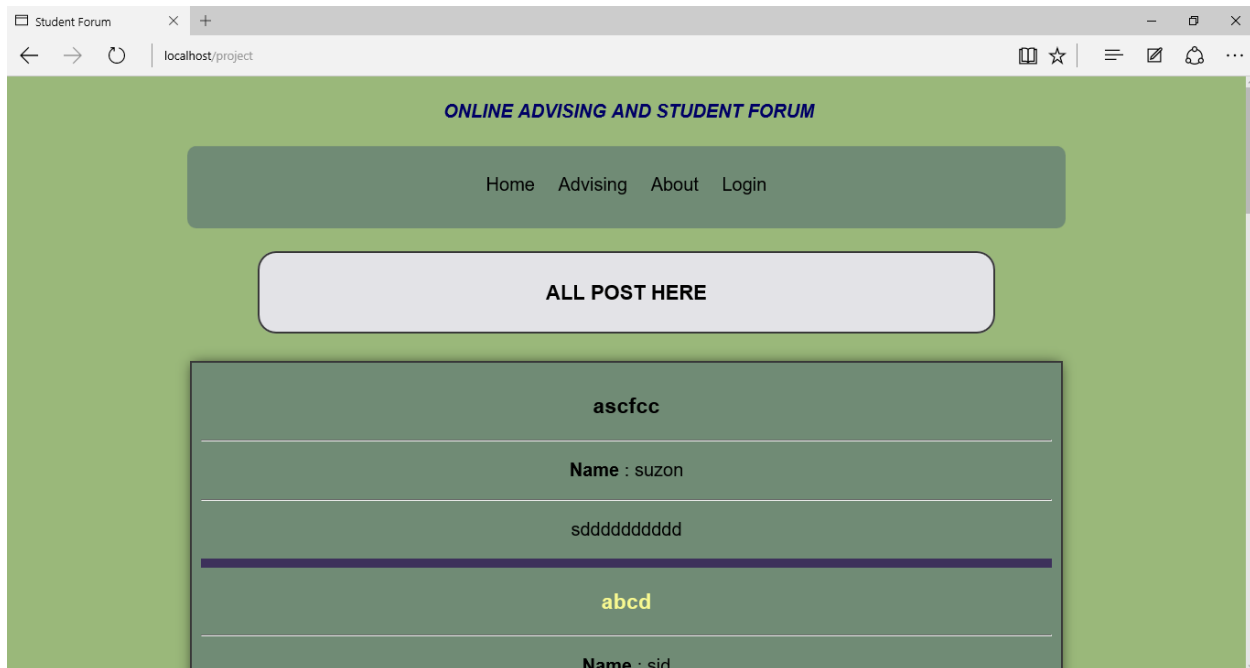


Figure 10: Home page

Description: This is the home page for online advising and student forum. Here students can see all the updated post given by the users. Here is option for advising and login. Advising option will lead students for their online advising. In login option there are two parts sign up and sign in

4.2.2 Student login page

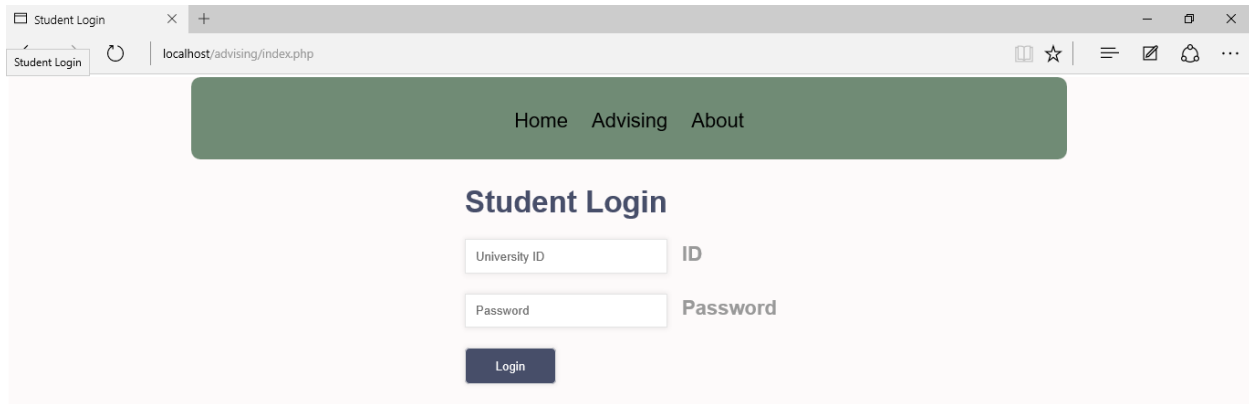


Figure 11: Student login page

Description: This page shows the login option for the students to complete their advising. By login in to system students will find the advising option.

4.2.3 Student advising page

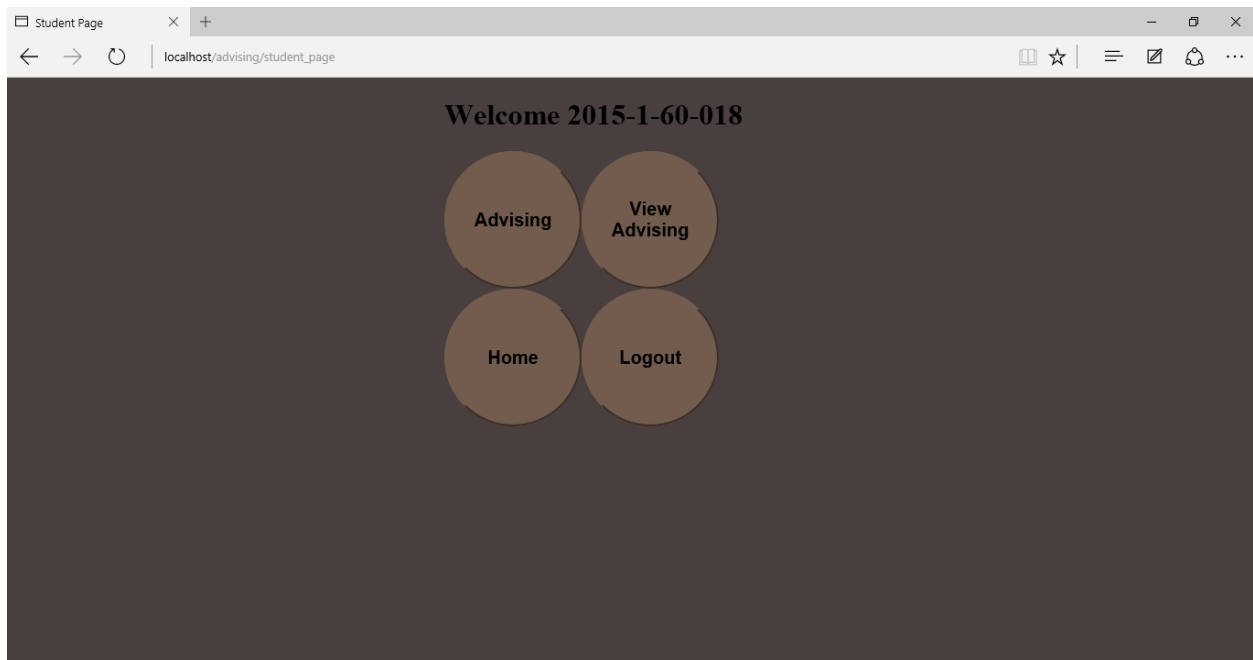


Figure 12: Student advising page

Description: In this web page there are three options for students.

- Advising option leads a student towards subject choose.
- View advising shows a student to view the subject list that he/she selected.
- Logout gets back to the login page.

4.2.4 Student subject choose page

2015 Thursday

Add Course

Year Year

Semester

Courses

Section

Figure 13 Student subject choose page

Description: This page is for choose the subjects by a student. Here are some input like year, semester and subjects offered by the university and there are multiple sections for some courses. Submit option confirms that the subject is chosen.

4.2.5 Student subject view page

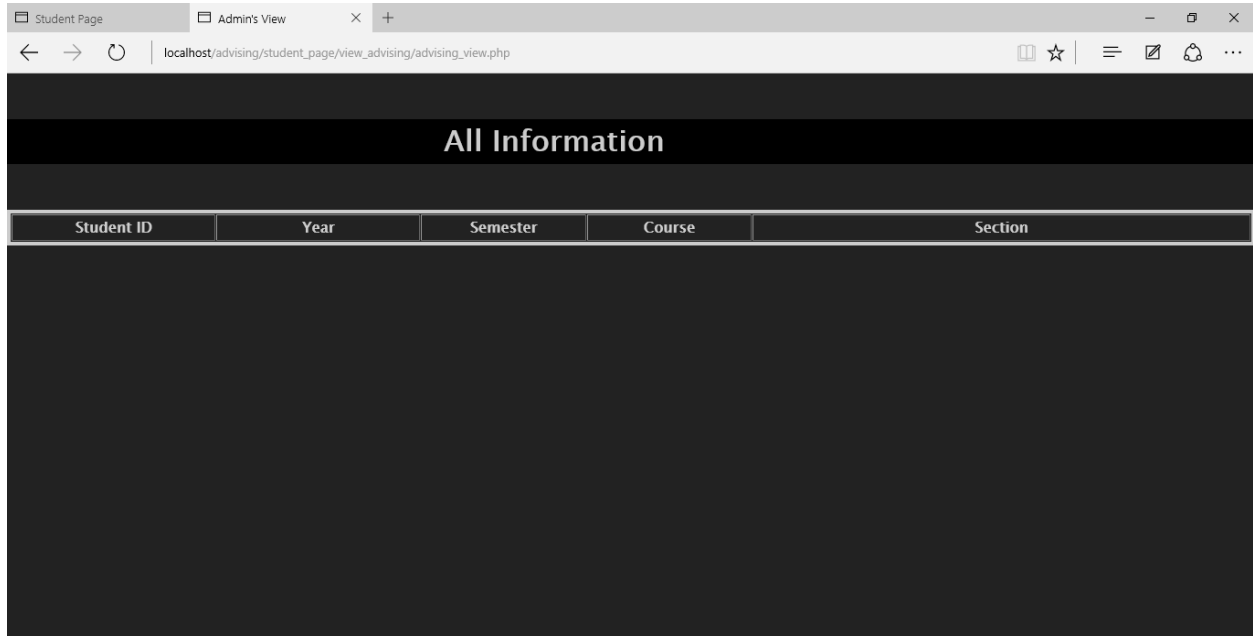
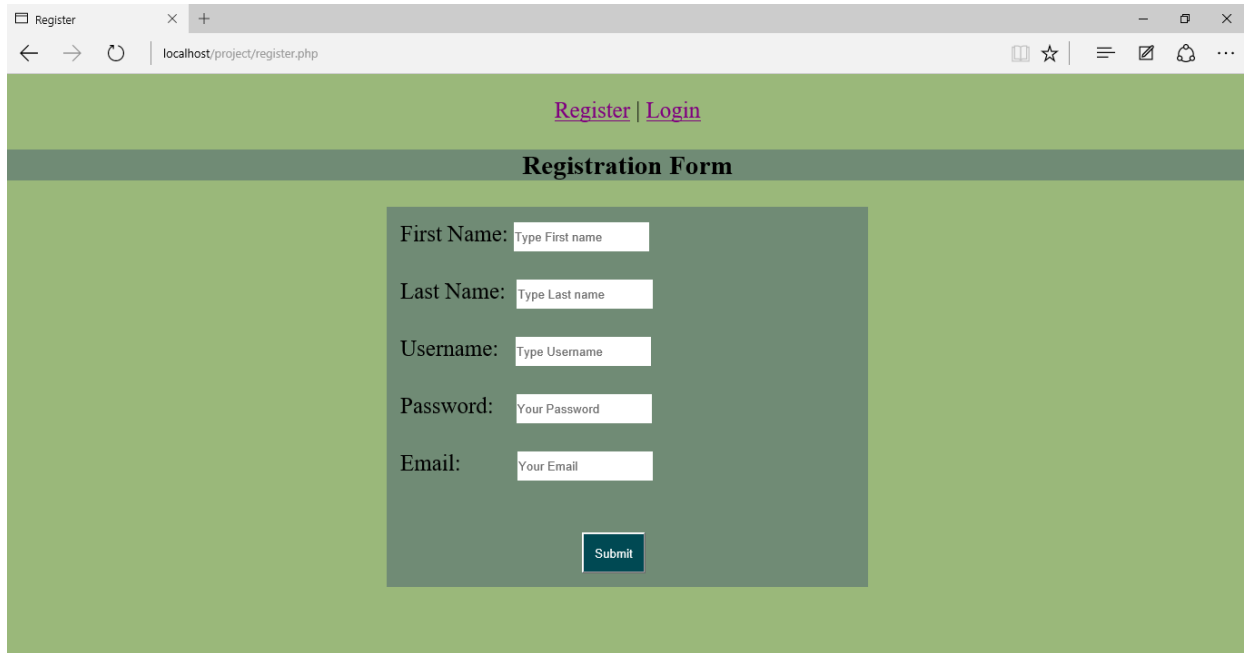


Figure 14: Student subject view page

Description: After successful advising a student can view his subject list from view advising option.

4.2.6 Registrationpage



The image shows a web browser window with a single tab titled "Register". The address bar displays "localhost/project/register.php". The page content features a green header with the text "Register | Login" in purple. Below this is a dark green horizontal bar with the text "Registration Form" in white. The main content area is a light green background with a dark green rectangular form. The form contains five input fields: "First Name:" with placeholder text "Type First name", "Last Name:" with placeholder text "Type Last name", "Username:" with placeholder text "Type Username", "Password:" with placeholder text "Your Password", and "Email:" with placeholder text "Your Email". A dark green "Submit" button is located at the bottom of the form.

Figure 15 Registration page

Description: This registration page is for student forum site. To write a post or to comment on a post a student must be registered user. By giving those information a student can be a registered user. Information's are first name, last name, username, password and email.

4.2.7 Loginpage

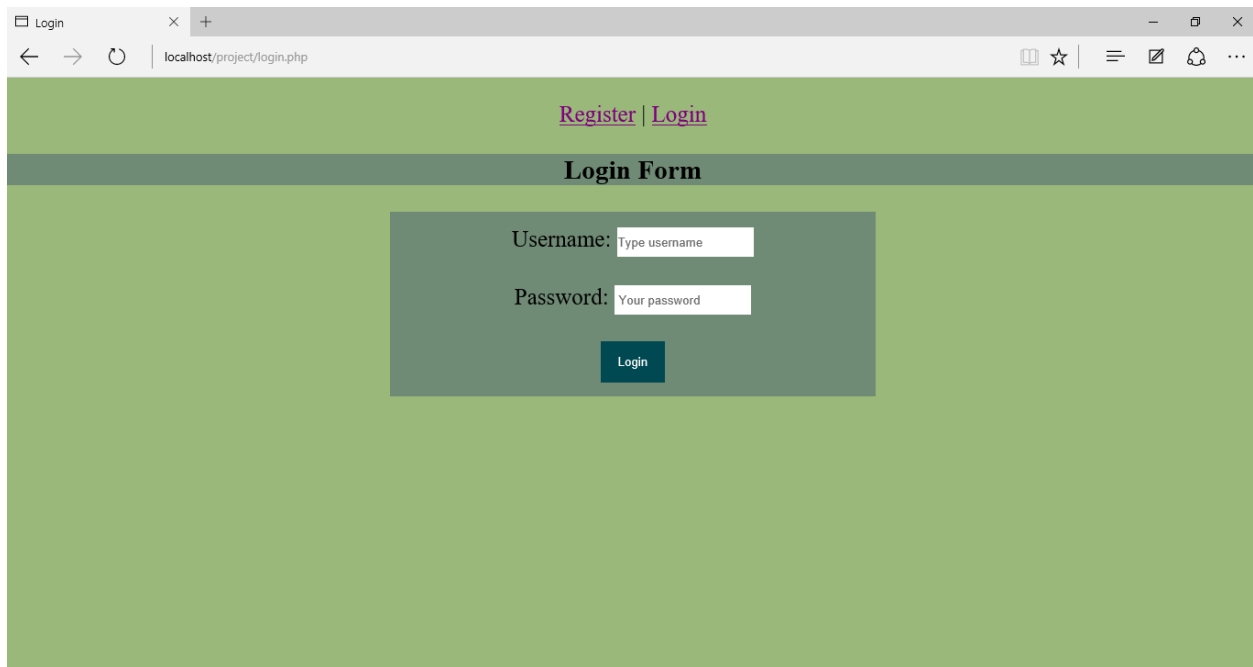
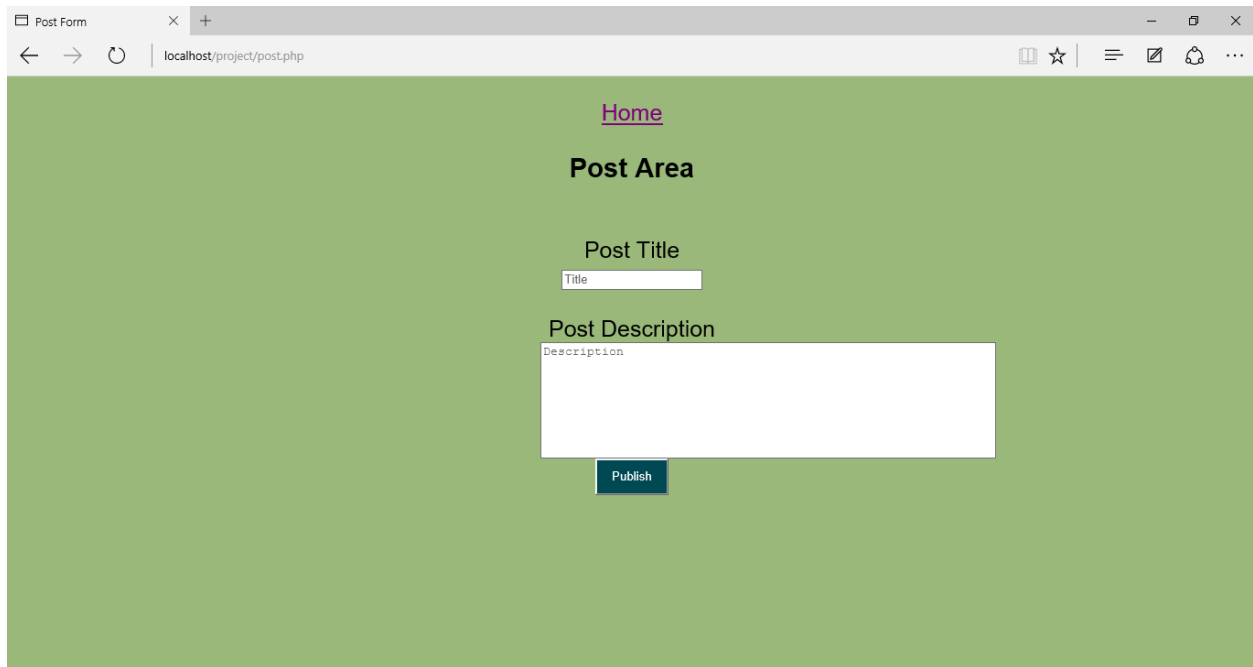


Figure 16: Login page

Description:After successful registration a student can login in to the website by giving username and password.

4.2.8 Write post page



The screenshot shows a web browser window with the address bar displaying 'localhost/project/post.php'. The page content is centered on a green background. At the top, there is a link labeled 'Home'. Below it is the heading 'Post Area'. Underneath the heading, there is a label 'Post Title' followed by a text input field containing the text 'Title'. Below the title field is a label 'Post Description' followed by a text area containing the text 'Description'. At the bottom of the form is a dark blue button labeled 'Publish'.

Figure 17: Write post page

Description: After login a student can write a new post. He/she has to give the title name and the description of the post. His/her name will be shown from database.

4.2.9 Comment page

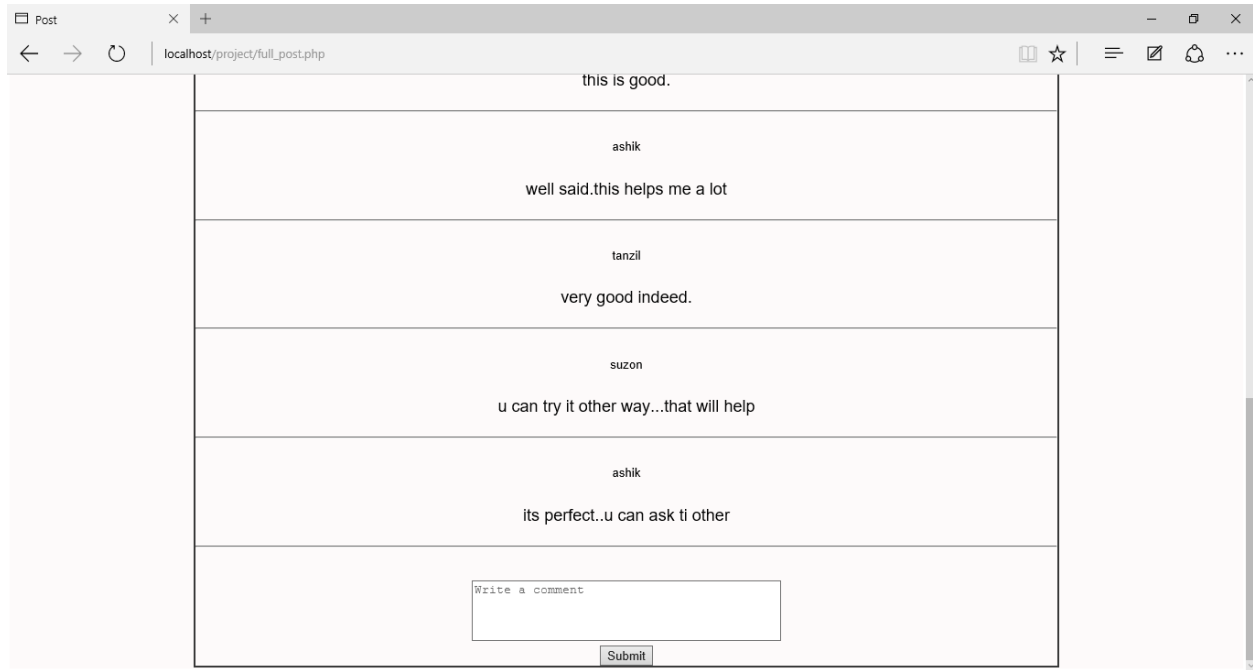


Figure 18: Comment page

Description: This page is a comment page of a post. A student can see all the comments and can also give a comment to a specific post.

Chapter 5

Conclusion and Future Work

5.1 Conclusion

Bangladesh is a developing country. Many developing countries are using information communication technology for different sector such as university student management. There are many universities who use online advising for the students but in East West University there is no option for online advising for the students. In this generation computerization system is very helpful. This program helps reduce the manual method and students can use it their way. Nothing taste good than solving your problem from distance rather than rushing down to a specific point for the problem to be solved. So this system will be very helpful for students and also for the faculties. I hope everyone will find some benefits by using this system.

5.2 Future Work

The future plan of this project is to improved design; implementation and documentation in such a way that anyone can use this project for better perform. I will develop the site more dynamically. In future I will add the following module for better improvement of the project:

- Online Evaluation.
- Credit info and credit limitations
- Payment info
- To make a better interface.
- More user friendly.

References

- [1] <http://www.w3schools.com>, March 8, 2015
- [2] <http://www.php.net> April 2, 2015
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- [6] <http://www.bdwebtutorials.com> June 19, 2015