# Design and Development a Website using HTML, CSS, PHP and MySQL

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# Design and Development a Website using HTML, CSS, PHP and MySQL

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**ABSTRACT**
**Website is the best way for publishing information and branding an organization. So, I have designed the web site on Islamic University, Bangladesh to spread the name and frame of the same globally. For designing the website, I have used HTML and CSS for web designing, PHP and MySQL have been used for developing of this site. In addition, I have taken help from many online web designing and developing tools. In this site information about the CSE department has been given. There is a short portrayal in this website about the university itself, the administrative setup, the department of the university and their faculties academic information and simple database for retrieving result of the students. The site has been made in such a way so that anyone can get a throughout postulation about the said organization. In future the implementation of this project will be for all universities of Bangladesh and will be converted to WEB site rapidly growing browsing media.**

**Keywords**-- CSS, DBMS, DDL, DML, HTML, MySQL, PHP, WWW

## INTRODUCTION

In the modern age almost, all organization use computer-based information system. The advent of computers has greatly extended our information processing capabilities. Computer has influenced organization of all types and sizes to its speed accuracy and information retrieved capabilities. The microcomputer has power and speed eliminate many formerly tedious and free us to our mind in new creative ways [1]. This project is undertaken to develop a system that can be used to maintain and operate any medium and large-scale university, collage etc. very efficiently through information management. In this project, any students or anyone can get more information fill up their registration from get result etc. A computer-based inventory and query system can decrease the management problem and the processing time of the system with the increase of security as well as efficiency. A relatively low-cost computer will be sufficient for this work and will overcome the limitations of the existing manual system. The authority can easily implement the computerized system. The main objective of the software is to computerized the university management system. This project work step for computerized the total university system as like as expert and bringing more new millennium people to the computer [2].

An expert system refers to a number of programs which play a big part in information conveyed by signs and symbols to analyze complications and provide exact solution. Actually, its consciousness is to be acquired by a specialist or other sources like texts journal articles and database [3]. This encoded regulation has to be acquired by significant instructions that are able to dig up any deficiency and it is widely used in many fields such as IoT, games etc.

## THE BASIC CONCEPT OF WEB AND DATABASE
### Website

A website known as web pages, pictures, audio, video and digital information that can be accessed over internet, actually this actuality is being stored in web server. Recently about four hundred of new websites are being created every a sixtieth of an hour. It is able to be utilized all sorts

of network such as LAN, MAN, WAN, PAN and so on [4].

## WWW

The World Wide Web (WWW) is a storage of visualize information which has been internally connected [5]. Any user is able to visualize such information by using any web browser via HTTP. It has been developed in HTML and designed in 1991 by Tim Berners-Lee. However, the World Wide Web is nothing but the Web.

## Concept of Database

A database is a set of data which has been collected and stored systematically in a computer system. A database can be controlled by a database management system (DBMS). A specific database management system (DBMS) must be used in a database but it is able to be universal by using some standards such as SQL and ODBC or JDBC [6].

## Database Model

Database model is a model that expressed the logical structure of a database and find out how data can be accessed, retrieved, and planned. Relational model is a data base model, which looks like a table-based pattern.

## Data Model

A data model standardizes how data elements should be organized and how they relate to each other. For example, a data model can identify that the data component representing a vehicle is made up of many elements that in turn represent the color and shape of the vehicle and it defines the owner [6].

## Database Language

Using database language, users can express relationship with data and other data types. Databases are used to make database files, tables and data dictionaries.

## Data Definition Language

DDL SQL reference is used to explain tables, columns, data types and constraints. In the general sense, the word DDL is also used for any traditional language that is used to describe information [6].

## Data Manipulation Language

Manipulation Language is used for accessing, modifying and retrieving data in DB [6].

## DESIGN AND DEVELOPING TOOLS



*Figure 1: Gallery image.*

## HTML

HTML standards for Hyper Text Markup Language, which is the structural description of contents of a file. It is the arrangement of text, image and other multimedia contents on the display (Fig. 1).

## CSS

CSS is basically a style sheet language which presents a document written in a markup language as like as HTML. It separates contents like layout colors, fronts and improves control over the contents.

## PHP

PHP is a programming language and at the same time works for web development. It survives many purposes like web contents management systems, web template systems and web frameworks. PHP codes are executed by CLP (Command-line Interface).

## MySQL

MySQL is a relational database management system (RDBMS). The MySQL Development Project has provided its source code. MySQL owns a single for-profit company. Swedish company MySQL AB is now owned by Oracle Corporation (Fig. 2) [6].
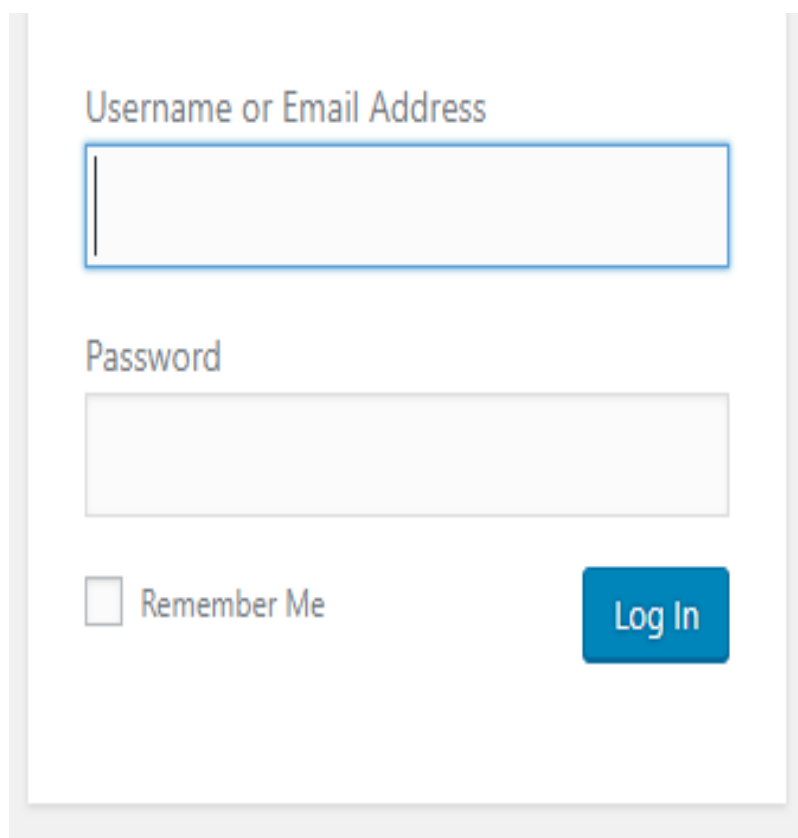


*Figure 2: Putting username or mail address.*

## DESIGN METHODOLOGIES AND IMPLEMENTATION
### The Main Design Steps of the Software

The website designed and produced in many procedures. We now described about the design implementation of the web site details (Fig. 3 and 4) [7, 8].

The phases of the web design process include the following steps:
➢ Project definition.
➢ Project scope.
➢ Wireframes and site architecture.
➢ Visual design.
➢ Site development.
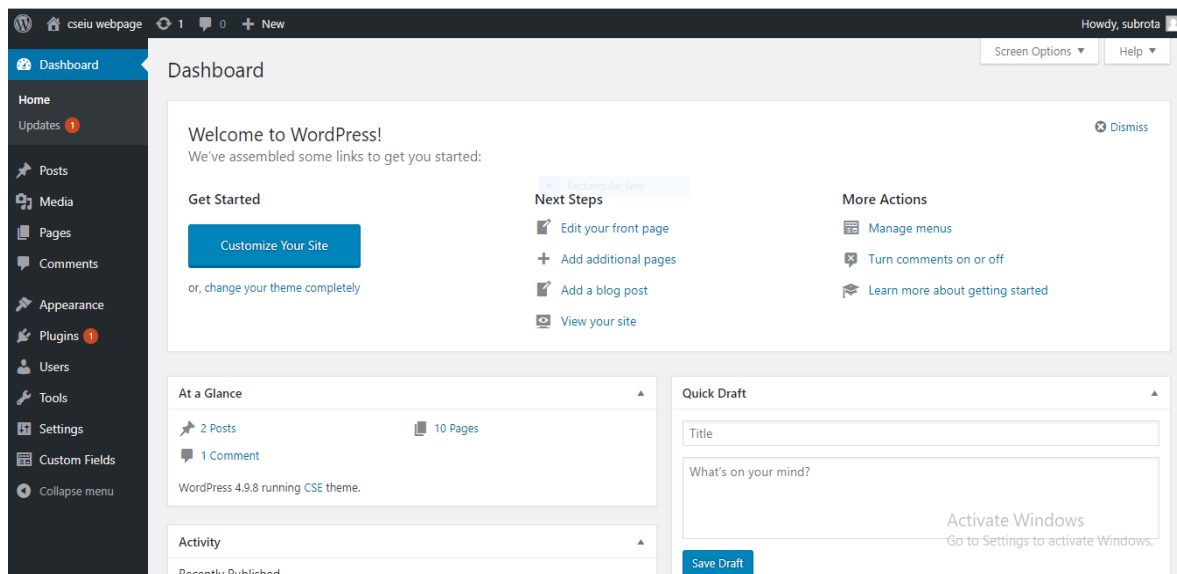➢ Site testing.
➢ Launch.
➢ Site maintenance.
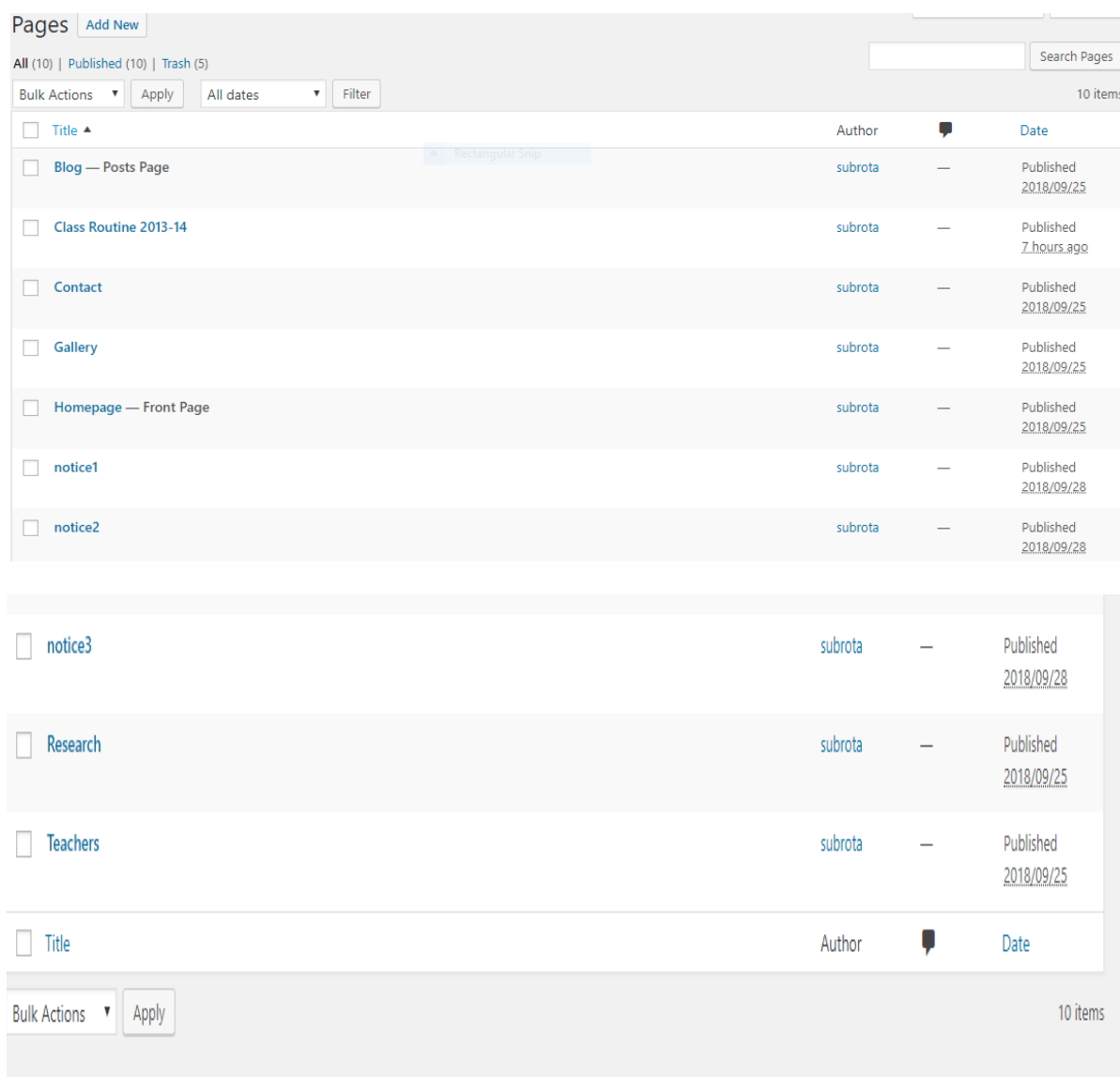
***Figure 3:*** *Dashboard.*



***Figure 4:*** *Home page design.*

**Design Home Page**

*Design an External CSS Program*

At first design an external CSS program

and link to the head section. An external CSS file is including into a <link> under <head>tag. The link is "style.css> and bootstrap.css (Fig. 5).
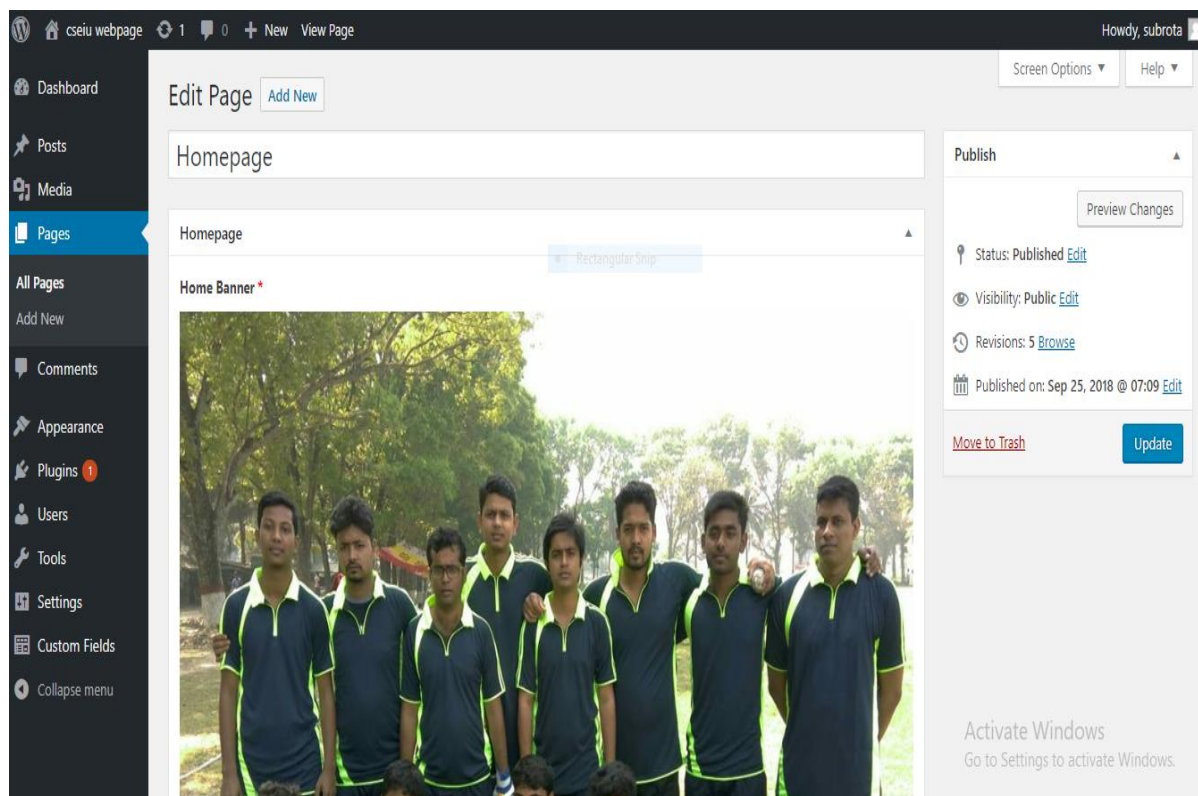


*Figure 5: Home page image.*

### Design Head Section

In head section there is a <title>tag. The name of the title is welcome to CSE department. Where I link is the external CSS and Bootstrap program and an icon.

### Footer Section

It is the last part of home page. In this case CSS is used for length of footer section in main page. It is a content of copyright of Abdullah Al Zubaer and his team.

**Design Gallery Page**

Design gallery page is given in Fig. 6 and 7.

```
</div>
 
<div class="single-teachers">
<h3><img class="alignnone size-medium wp-image-50" src="http://localhost/subrota/wp-content/uploads/2018/09/FB_IMG_15373003
<h3>SUJIT KUMAR MONDOL</h3>
Professor

</div>
```
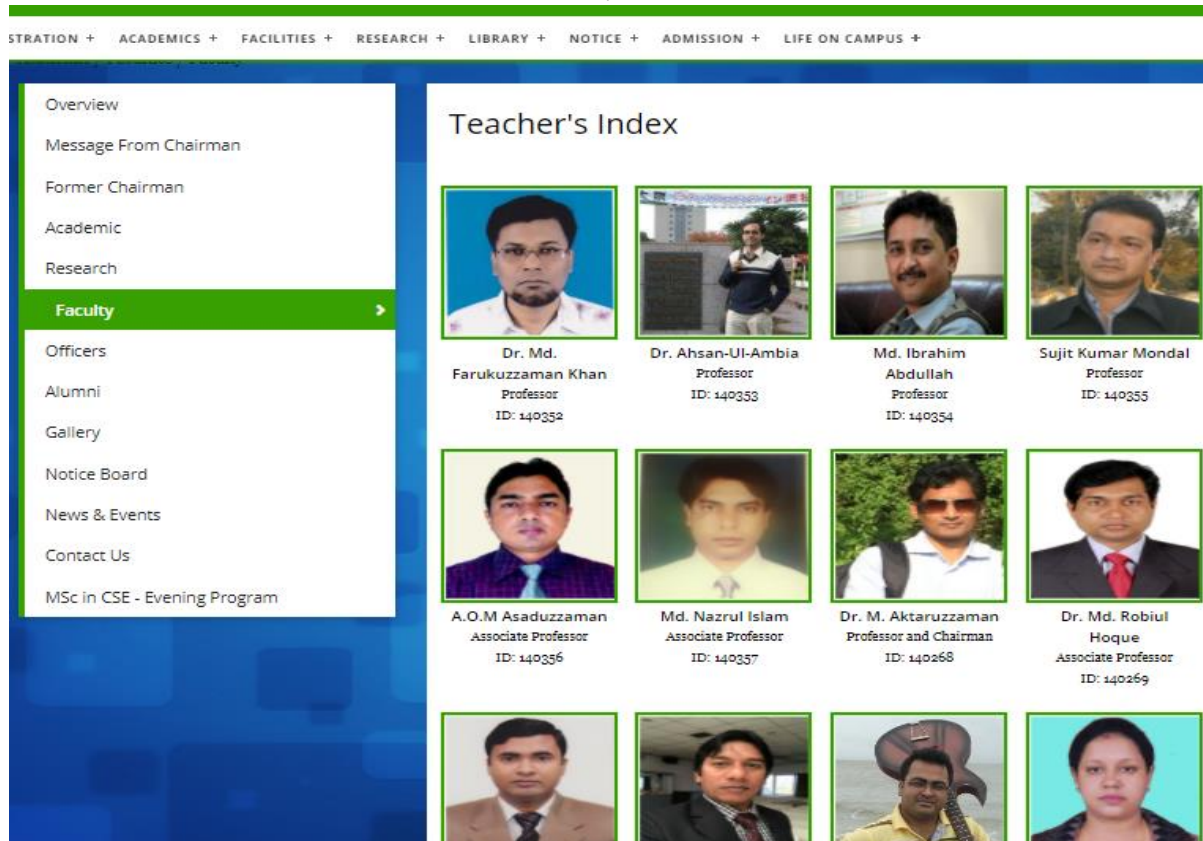
*Figure 6:* Gallery page images.



*Figure 7:* Teacher's index.

**Design Student Page**

In designing student page some information are arranged into a database such as name, home address, gender, mailing address etc. [9]. From database the recorded information is easy to find and arrange (Fig. 8).
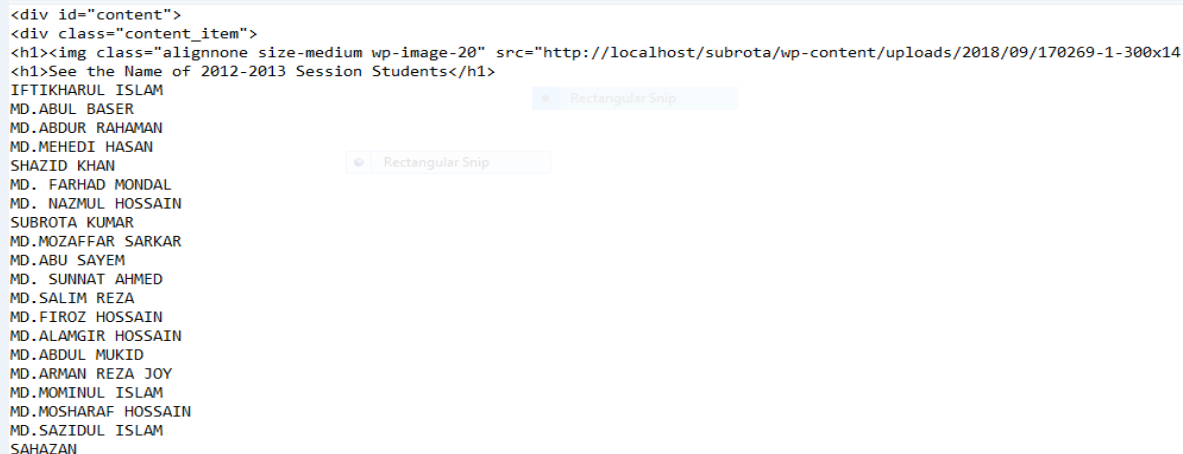


```
<div id="content">
<div class="content_item">
<h1><img class="alignnone size-medium wp-image-20" src="http://localhost/subrota/wp-content/uploads/2018/09/170269-1-300x14
<h1>See the Name of 2012-2013 Session Students</h1>
IFTIKHARUL ISLAM
MD.ABUL BASER
MD.ABDUR RAHAMAN
MD.MEHEDI HASAN
SHAZID KHAN
MD. FARHAD MONDAL
MD. NAZMUL HOSSAIN
SUBROTA KUMAR
MD.MOZAFFAR SARKAR
MD.ABU SAYEM
MD. SUNNAT AHMED
MD.SALIM REZA
MD.FIROZ HOSSAIN
MD.ALAMGIR HOSSAIN
MD.ABDUL MUKID
MD.ARMAN REZA JOY
MD.MOMINUL ISLAM
MD.MOSHARAF HOSSAIN
MD.SAZIDUL ISLAM
SAHAZAN
```

*Figure 8: Design student page.*

**Design Admission Page**

For designing registration form using CSS. Here uses input tag inserting data into the registration form. Using type attribute for dealing the text type. In the last a submitted and cancel button is used (Fig. 9) [10].
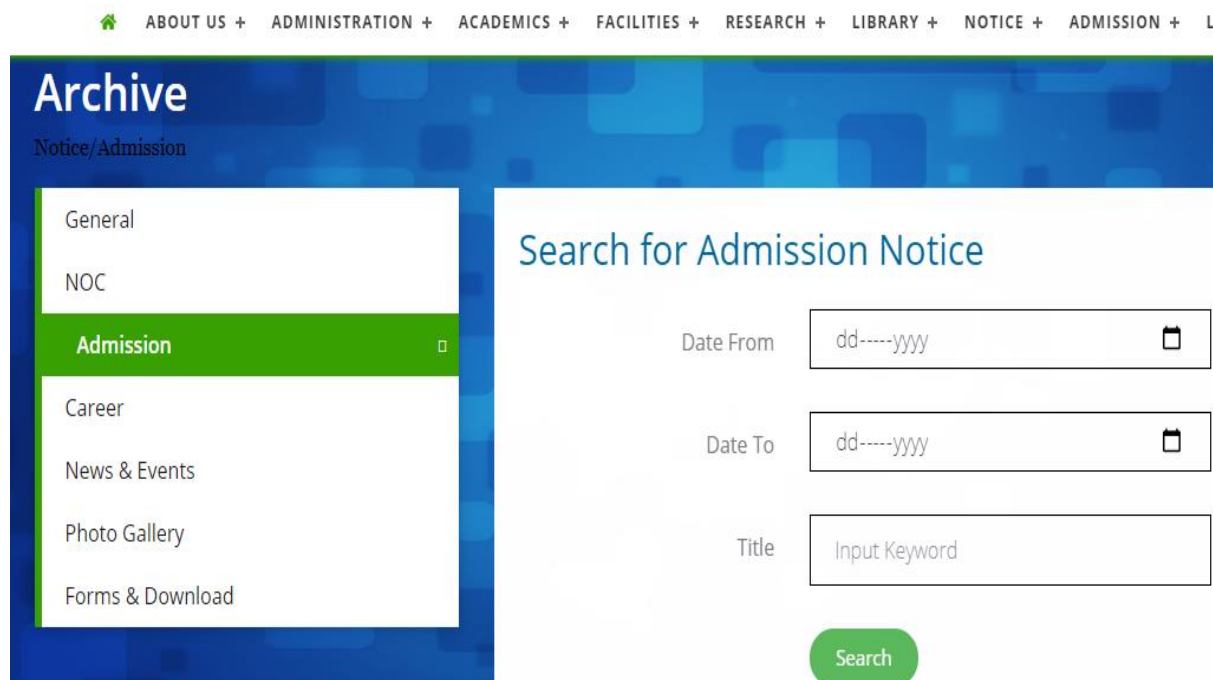


*Figure 9: Admission page.*

**Design Noticeboard Page**

In notice page first using a text in the center and then the whole section is divided into two columns. In the right side of the page admission test result and Evening program notice is situated (Fig. 10).
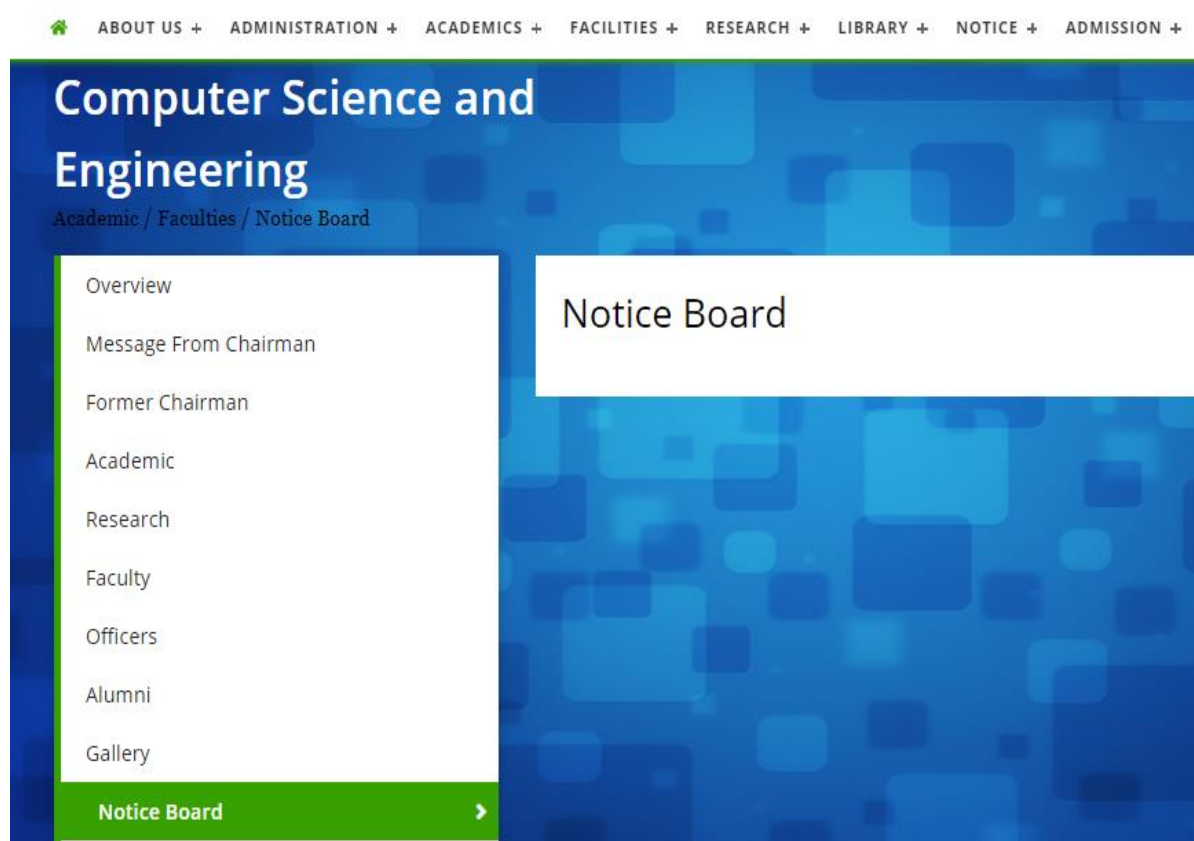
*Figure 10: Noticeboard page.*

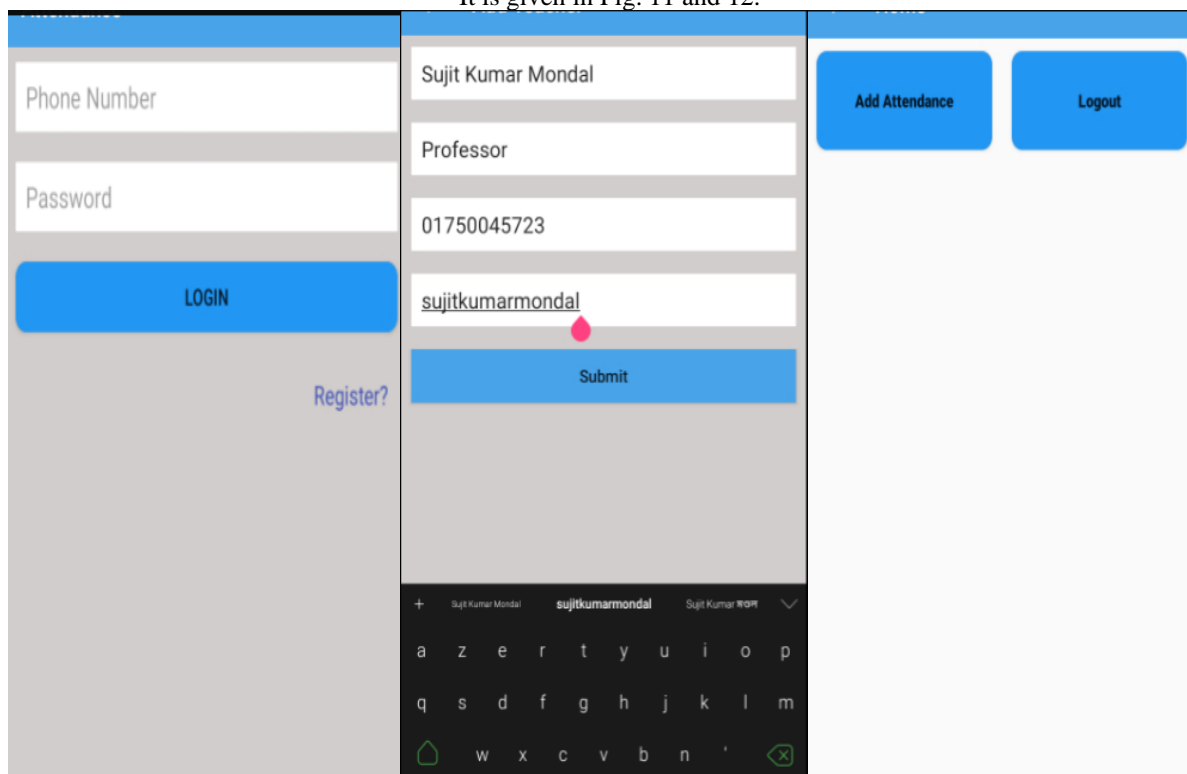**Snapshot after Install**

It is given in Fig. 11 and 12.



*Figure 11: Website login.*

***Figure 12:*** *Students attaindance.*

## CONCLUSION

The best endeavor has been applied to design and develop this site with the help of tools pertaining to it. The latest version of HTML 5.5, CSS 3, online tools for making menu bar and photo slide builder have been used in developing this site. In addition, a small data base has been created to retrieve the stored data on the web page from the MySQL. The outlook has been designed by following website of some foreign universities such as Oxford university etc.

## FUTURE DEVELOPMENT PLAN

In spite of its lucrative outlook, there are some limitations of this website. The database is not enriched the number tables are inadequate and there is a little relation among them. In future database side of the site will be taken into consideration for further development. The more facilities added to the site. A search box in the menu can be added. To make the site full fledge dynamic one the use of PHP, Java Script, plug-ins will be used. For security measure new security feature will be added to the site. There are many pages that can be added to the menu bar specially pages on every department of the university will be designed. A page for all university teacher and staffs would be developed in future.

## ACKNOWLEDGEMENT

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