CHAPTER 1

INTRODUCTION

1.1 Brief Introduction

The open course Management System is a software application to assist an admin with student registration, which includes creating, retiring, uploading and deleting registrations. It minimizes the repetitive work done by the system administrator.

The system maintains the student information in case of emergency, e.g. registration cancellation due to admission withdrawal.

The profile can also be used by the college management authority to track the subjects that are included in a course and the students who have opted for the respective course.

1.2 Motivation & Scope

A survey conducted by educational universities shows that admin of an existing registration system would respond favorably to a Client-Side Modification (CSM) that satisfied or helped them satisfy the following objectives:

Reduce effort and frustration for management authority in registering a student details, especially by reducing the search effort for the student details they need to look after.

Show all possible combinations and itineraries available for subject allotment with respective courses. Reduces redundancy in the student information required. Also minimizes extensive paper work.

Check the validity of input data and give a feedback to the user in case of errors of inconsistency.

1.3 Problem Statement

Design and develop User Interface for Open Course Management System which has different subject allotment with respective courses, along with student details, facilitates registering, searching and deleting the student's information, etc.

1.4 Limitations

- Open Course Management System requires the XAMPP local host server to be installed without which it will not be able to function.
- Open Course Management System cannot dynamically update the registrations and needs to be done by the Database Administrator.
- Cancellation of registered student cannot be done dynamically.

CHAPTER 2 SYSTEM REQUIREMENT

2.1 Functional Requirements

• Request for admin login

The system shall require an admin to register, in order to carry out any operations with it. It will ask the user for the following information: user-id, password, if correct the correct the system allows the user to carry out the operations.

Registering Course

Once the user is accessed to the web page, the system offers an option of open course registration. The user can enter the students' course or choose one from the already available choices. After when the course is registered, the user is supposed to choose the subjects for the respective courses.

• Retrieving details of the students

The system allows the Admin to retrieve the detail of any student by the search option. The system accesses the DB-registration immediately, retrieves the data from the database and displays the required information to the student and admin.

• View Student Status

The system shall allow admin to view all information about course and student. It accesses DB and retrieves the details of the requested information and presents them to the admin in a convenient format.

2.2 Non-Functional Requirements

Performance

Response time of the System should be less than 2 second most of the time. Response time refers to the waiting time while the system accesses, queries and retrieves the information from the databases (DB-user, DB-schedule etc.) (A local copy of student database is maintained to reduce this access time). Open Course Management System shall show no visible deterioration in response time as the number of users or student data increases.

• Reliability

Open Course Management System shall be available 24 hours a day, 7 days a week Open Course Management System shall always provide real time information about student availability information.

Open Course Management System shall be robust enough to have a high degree of fault tolerance. For example, if the admin enters a student who does not exist in the list or if number of students or a value too large, the system should not crash and shall identify the invalid input and produce a suitable error message.

• Usability

Open Course Management System shall provide a easy-to-use graphical interface similar to other existing registration system so that the users do not have to learn a new style of interaction. Any notification or error messages generated by Open Course Management System shall be clear, succinct, polite and free of jargon.

• Integrity

Only system admin has the right to change system parameters, such as student details etc. The system should be secure and must use encryption to protect the databases.

2.3 Domain Constraints

Regulatory policies: It is a mandatory that no text box must be left empty or contains insufficient data.

Hardware limitations: There must be a 64 MB on board memory.

Control functions: The software must be very user-friendly and display appropriate error messages.

Interfaces to other applications: Not applicable.

Parallel operations: It must support many users simultaneously. Safety/security considerations: The application must be exited always.

seats.

CHAPTER 3

SYSTEM ANALYSIS

The application allows the faculty to add any course that's been introduced and uploads the brochure of the course. The faculty must be able to view all the registrations that's been done and delete any student's information if necessary. on the other hand, the URL that will be provided of the application to the student is a mobile and computer based one. the student can first register himself with his usn and other details, there is a verification done through email for filtering out the fake users. Only if the usn which is the unique id is right he/ she can proceed with the further steps, once the verification is done, he/she has to enter all his personal details, all the information is stored in the database and any duplicate entry is deleted off, after this he'll be redirected to another page where he can select the course, view the brochure and pay the necessary fee for it, all the data stored in the database will be displayed in the front end to the admin, any changes can only be done through him, for a course that's been added up, the admin

uploads the brochure and reserves the number of seats. each time the student registers for a course

the count is made to reduce and visible to the admin is free to increase or decrease the number of

CHAPTER 4

IMPLEMENTATION

• MySQL:

MySQL is an open source relational database management system (RDBMS).[6] Its name is a combination of "My", the name of co-founder Michael Widenius's daughter,[7] and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for- profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation.

The MySQL stores data logically in the form of tablespaces and physically in the form of data files ("datafiles"). Tablespaces can contain various types of memory segments, such as Data Segments, Index Segments, etc. Segments in turn comprise one or more extents. Extents comprise groups of contiguous data blocks. Data blocks from the basic units of data storage.

• PHP:

Hypertext Preprocessor (or simply PHP) is a server-side scripting language designed for Web development, and also used as a general-purpose programming language. PHP originally stood for Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Preprocessor.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems, and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement standalone graphical applications.

• XAMPP:

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

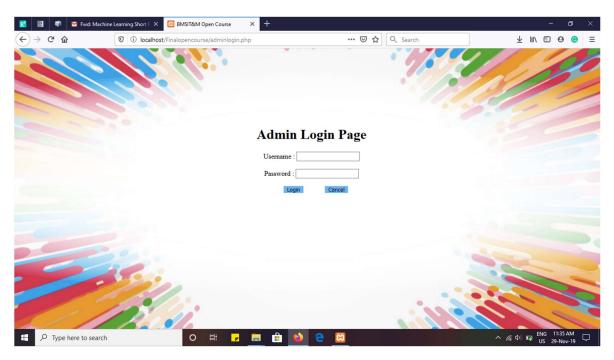
Bootstrap:

Bootstrap is a free and open source front end development framework for the creation of websites and web apps. The Bootstrap framework is built on HTML, CSS, and JavaScript (JS) to facilitate the development of responsive, mobile-first sites and apps. Responsive design makes it possible for a web page or app to detect the visitor's screen size and orientation and automatically adapt the display accordingly; the mobile first approach assumes that smartphones, tablets and task-specific mobile apps are employees' primary tools for getting work done and addresses the requirements of those technologies in design.

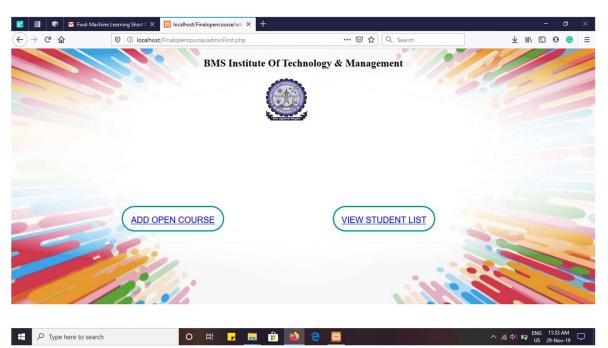
Bootstrap includes user interface components, layouts and JS tools along with the framework for implementation. The software is available precompiled or as source code.

CHAPTER 5

INTERPRETATION OF RESULTS

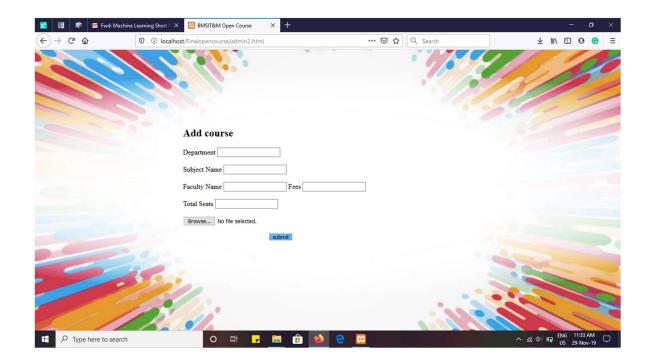


a. Admin login page

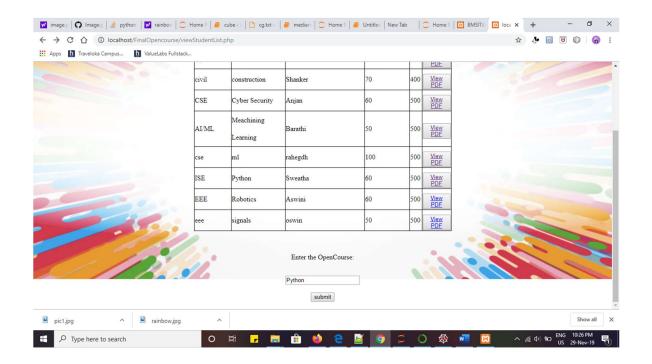


b. Admin page

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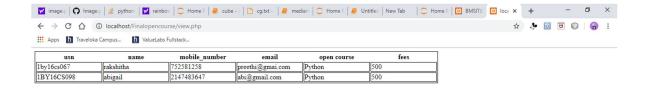
c. On click of add open course



d. On click of view student list

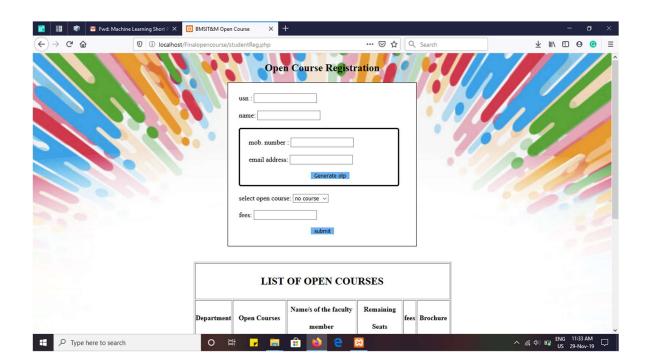


Open Course Management system

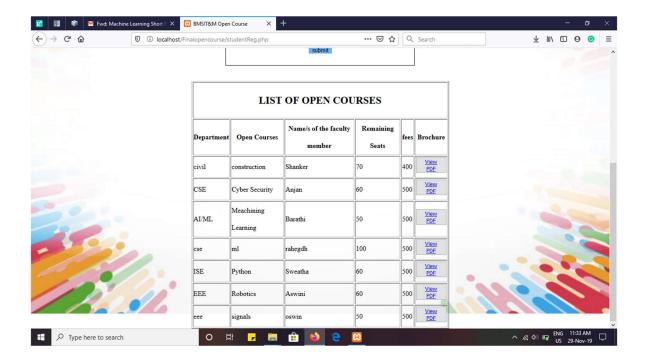




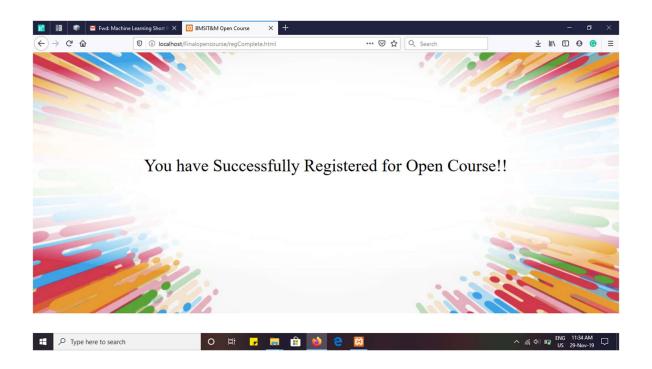
e. Student list



f. Student registration page



g. List of open courses



h. Successful registration

CONCLUSION

Once this project is completed it offers users the following functionalities:

Remotely registers open courses along of the respective department. The admin can view the list of registered students for a particular course by entering the course name in search bar of admin page. This is done using stored procedure. The system can register the student details from the Registration panel, all the required personal information of the student must be filled with valid details. This system reduces redundancy in the information required from the college authority and reduces human errors to a great extent.

FUTURE ENHANCEMENT

- Implement a dynamic page that reduces the number of seats available in each open course.
- In addition to the existing functionality of adding new courses, the admin must also be able to edit existing courses.
- In case a student has involuntarily registered more than once or entered wrong details the admin must be able to delete the student's registration.
- To verify the student's personal information, carry out mobile number verification through otp sent as sms to the provided mobile number.

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