

ADVANCE WEB DEVELOPMENT (AWD)

A Project Report

Submitted for the partial fulfilment for the bachelor's degree in Technology (Honours Degree) to the Department of Xavier School of Computer Science & Engineering, Xavier University Bhubaneswar.

STUDENT INFORMATION MANAGEMENT SYSTEM

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SYNOPSIS OF PROJECT

Student Information Management System can be used by Educational Institutes to maintain the records of the students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redunctant and collecting relevant information may be very time consuming. All these problems are solved using this project.

Name of the Project: Student Information Management System.

Objective:

- Online Registration of Students
- Maintenance of Student Records
- Searching Student Records

User Views: Administrator View & Student View

Platforms:

Operating Systems: Microsoft Windows

Technologies Used:

- Front End: HTML & CSS
- Back End: PHP & MySQL

Software Requirements:

- PHP 7.0
- Visual Studio Code
- Wampserver64
- Microsoft Windows or Linux

PROJECT DESCRIPTION

PURPOSE:

The objective of Student Information System is to allow the administrator of any organization to edit and find out the personal details of a student and allows the student to keep up to date his profile. This will also facilitate keeping all the records of students such as their ID, Name, Email, Contact Details, DOB etc. So all information about a student will be available in a few seconds.

Overall, it will make Student Information Management an easier job for the administrator and the student of any organization.

PRODUCT FUNCTION:

There are two different users who will be using this product, they are:

- Administrator who can view and edit the details of any students.
- Students who can view their details as well as they can edit their details.

The features that are available to the Administrator are:

- Administrator can login into the system and perform any of the available operations.
- Can enable or disable student.
- Can edit student information to the database.
- Can access all the details of the student.

The features that are available to the student are:

- Student can login into the system and can perform any of the available options.
- Can view his/her personal details.

TECHNOLOGICAL OVERVIEW:

HTML: HyperText Markup Language (HTML) is a standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting language such JavaScript (JS). Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML

describes the structure of a web page semantically and originally included cues for the appearance of the document.

CSS: Cascading Style Sheet language is used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web alongside HTML & JS. CSS is designed to enable the separation of presentation and content including layout, colours and fonts.

PHP: It is a general-purpose scripting language that is specially suited to server-side web development where PHP generally runs on a web server. PHP code is embedded into the HTML source document. Any PHP code in a requested file is executed by the PHP runtime, usually to create dynamic web page content. It can also be used for command-line scripting and client-side GUI applications. PHP can be deployed on many web servers and operating systems and can be used with many relational database management systems (RDBMS). It is available free of charge and the PHP group provides the complete source code for users to build, customize and extend for their own use.

MySQL: It is a Relational Database Management i.e., RDMS that runs as a server providing multi-user access to several databases. MySQL is a popular choice of database for use in web applications and is an open-source product. The process of setting up a MySQL database varies from host to host; however, we will end up with a database name, username and a password. Before using our database, we must create a table. A table is a section of database for storing related information. In a table we will setup the different fields which will be used in that table. Creating table in phpMyAdmin is simple. We just type the name, select the number of fields and click the 'go' button. We will then be taken to a setup screen where you must create the fields for the database. Another way of creating databases and tables in phpMyAdmin is by executing simple SQL statements. We have used this method in order to create our database and tables.

WAMPSEVER: WampServer refers to a solution stack for Microsoft Windows operating system, created by Romain Bourdon and consisting of

Apache Web Server, OpenSSL for SSL support, MySQL database and PHP Programming language.

SCOPE:

- The Student Information Management System can be enhanced to include some other functionality like marks, attendance management.
- Talent Management of students based on their performance evaluation can be added.
- Online class functionality can be added.
- Can evolve as an online institution.
- Online Exam functionality can be added.
- Students can update their personal information if any mistakes found or can change their login credentials.

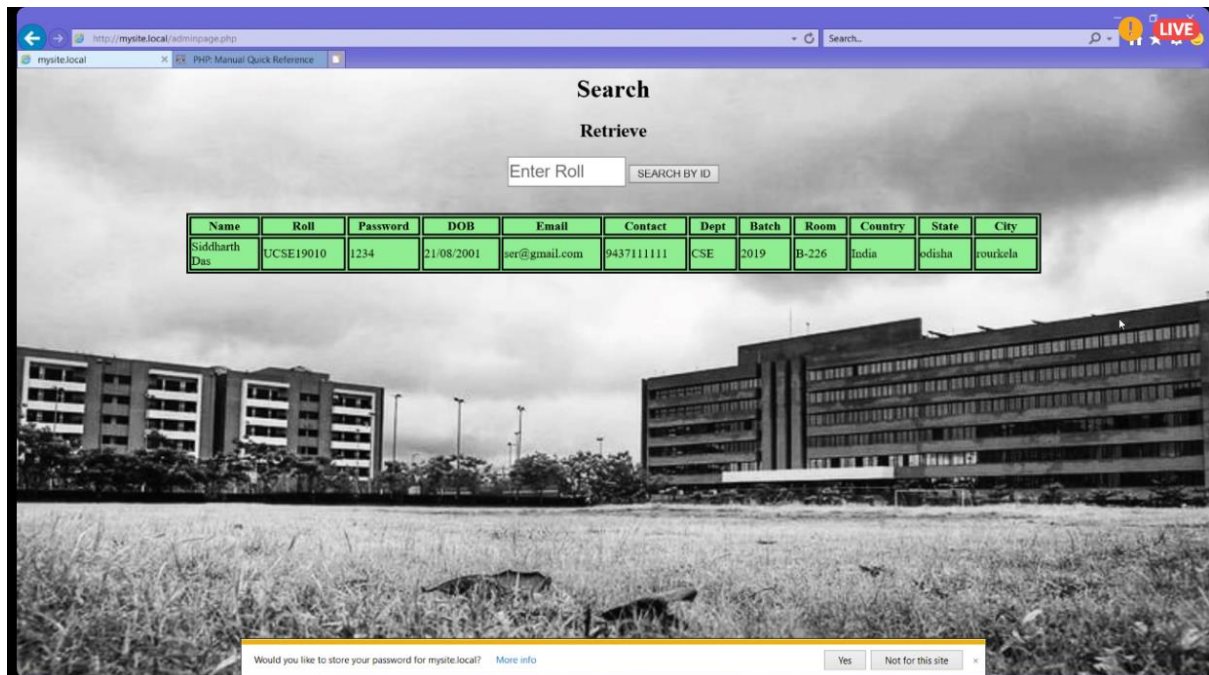
CONTRIBUTION:

Student Information Management System can lead to a better organization structure since the Information management of students is well structured and lead to better as well as efficient utilization of resources.

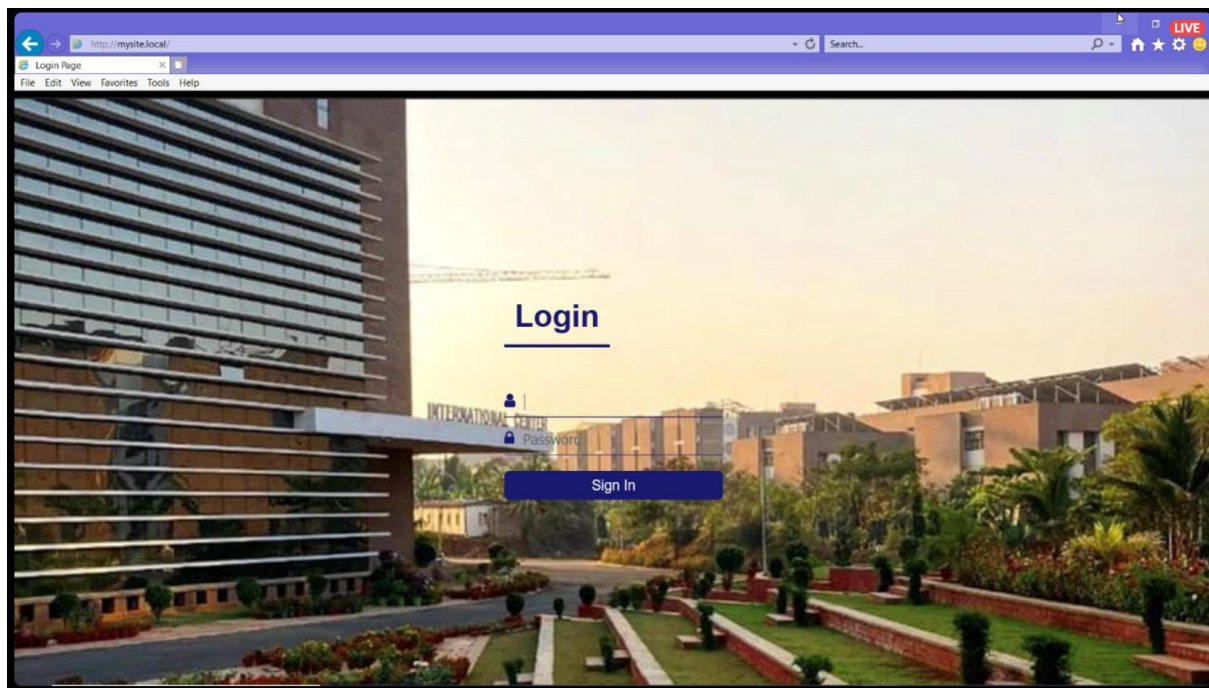
Student Information Management System can be used by Educational Institutes to maintain the records of students easily. Our project was developed by all both of us. We, a team of 2 persons took step by step approach in order to reach our goal.

SNAPSHOTS

Output Page (mysite.local):



Login Page:



Registration Page:

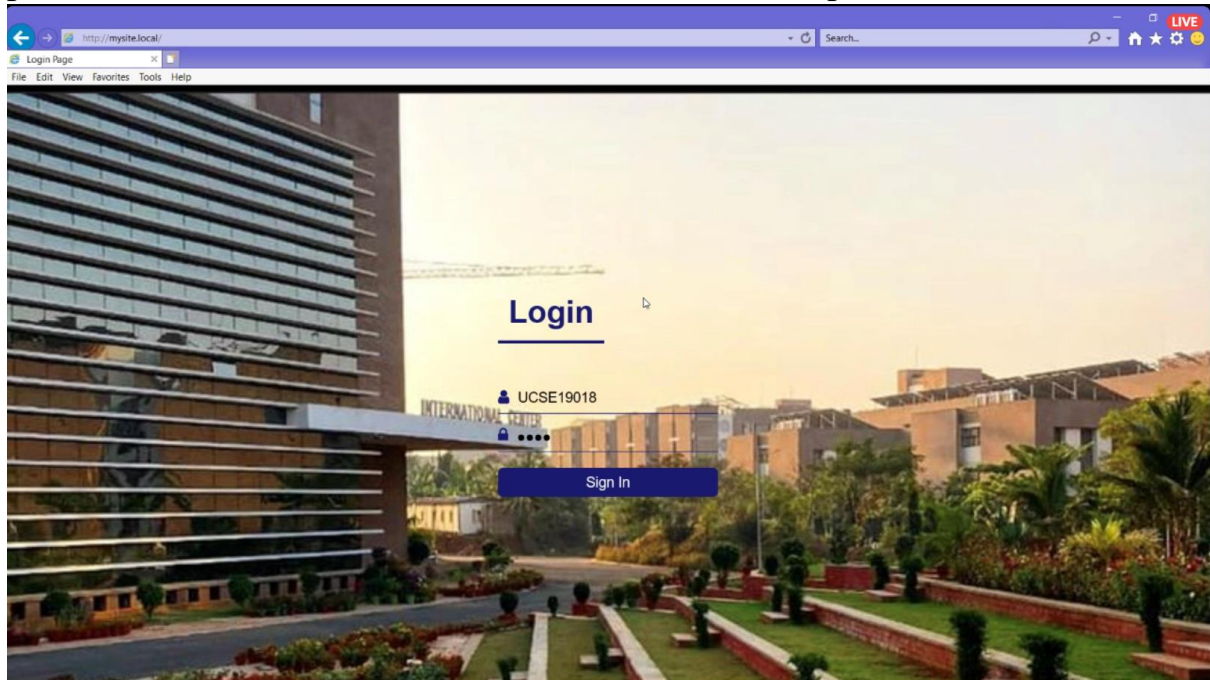
The screenshot shows a web browser window with the address bar displaying 'http://mysite.local/Enrollment.php'. The page title is 'Hostel Enrollment Form'. The browser's menu bar includes 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. The page content features a large background image of a modern university building with a sign that reads 'INTERNATIONAL CENTER'. Overlaid on the left side of the image is a form titled 'Welcome to XUB UG Hostel'. Below the title, a message states 'Students are requested to fill the Enrollment form carefully'. The form contains three input fields: 'Name', 'Password', and 'E-mail'. The browser's status bar at the bottom shows 'Page Not Found'.

DEMO

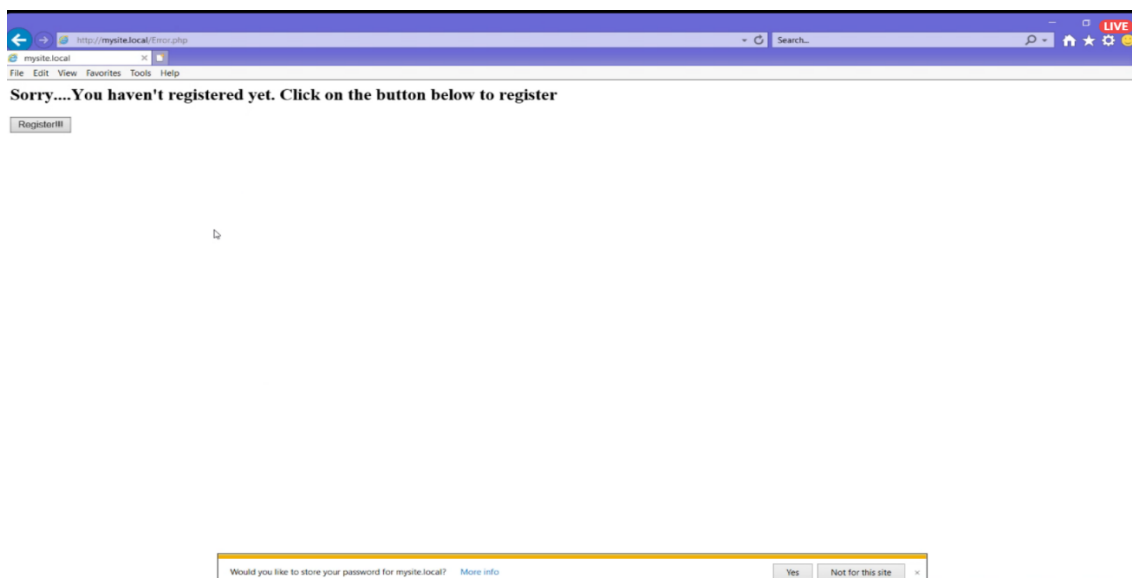
Security:

Form validation is very important. The page will show how to process PHP forms with security in mind.

1.To check the security in the PHP form, we took an unregistered mail id and password. We had taken an id name as ucse19018 and password ntr1



2.After filling all the necessary details in the login page. Click Sign In to see the result. If you are a registered user then the page will directly move to your database, if not then it will ask to register.



Registration:

1. In the above page, there is a 'Register' button. Click on the Button and then the Enrolment form or the Registration Page will appear, fill all the necessary details in the form and click 'Sign Up'.

Hostel Enrollment Form

pratik@xub.edu.in

Contact: 9437111111

Dept: CSE

Batch: 2019

ID: UCSE19017

Room: B-227

Country: India

State: odisha

2. After clicking Sign Up all the data will be stored in the mysql database.

Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)

```
SELECT * FROM `adminlogin`
```

Options: Number of rows: 25, Filter rows: Search this table, Sort by key: None

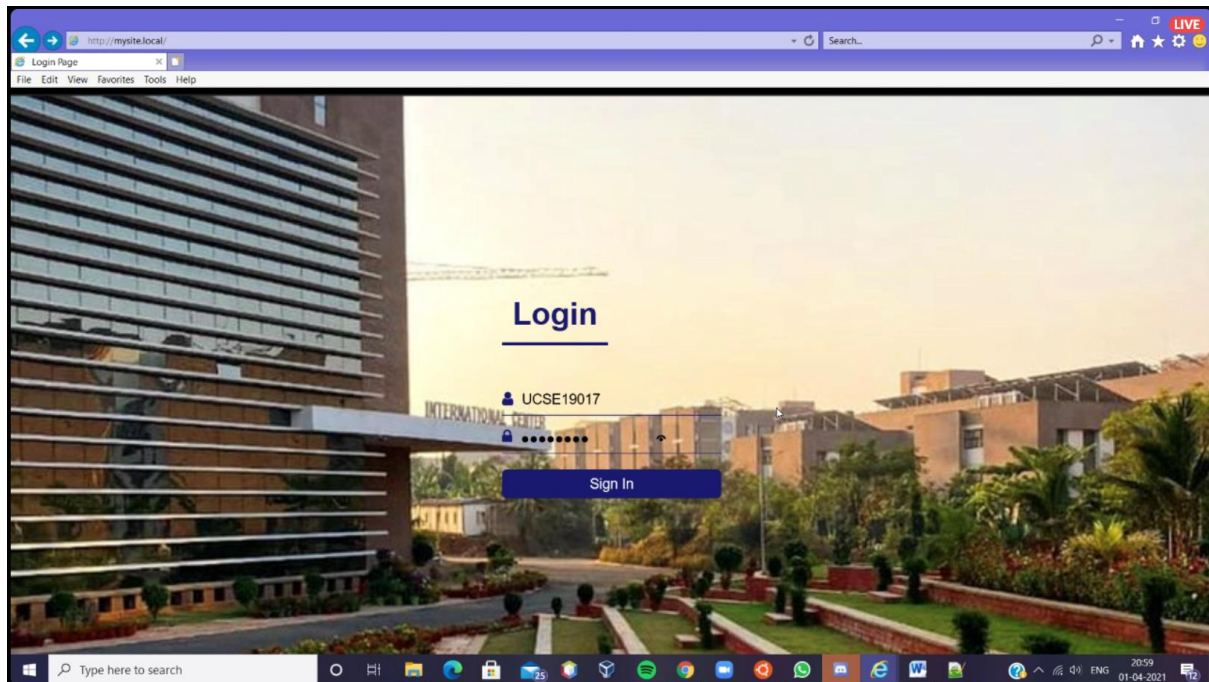
	id	username	password	DOB	Email	Contact	Dept	Batch	Room	Country	State	City
	UCSE19017	Pratik Sinha	pass1234	28/08/2001	pratik@xub.edu.in	9437111111	CSE	2019	B-227	India	odisha	Baripada

Query results operations: Print, Copy to clipboard, Export, Display chart, Create view

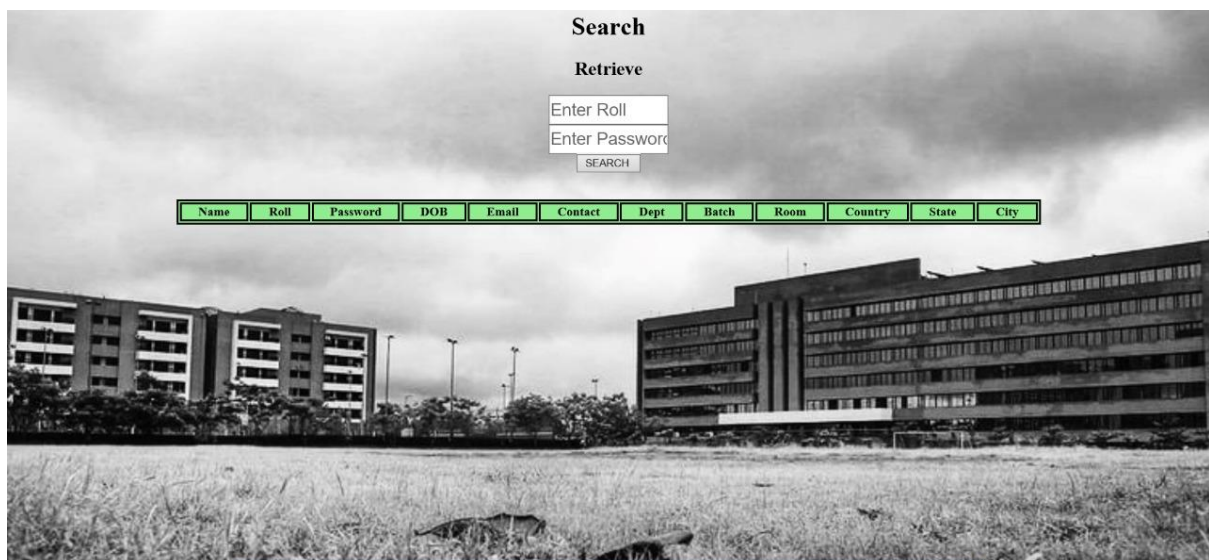
(We had taken the username of Pratik Sinha, ID name UCSE19017 & Password pass1234)

Final Output:

1. After registering your details successfully, go back to the login page, enter the details as registered (id: UCSE19017 Password: pass1234).



2. After entering the details click 'Sign In'. The database page will appear.



3. Enter your Roll No. and Password and click 'Search'. The purpose of designing this page in such a way so that a registered user won't be able to see any other user details. (ID: UCSE19017; Password: pass1234)

4. After clicking on search, your registered data will appear.

Browser window showing a web application running on `mysite.local`. The page displays a search interface with the following elements:

- Search form with labels: **Search**, **Retrieve**, **Retrieve**, **Enter Roll**, **Enter Password**, and a **SEARCH** button.
- A table displaying user data:

Name	Roll	Password	DOB	Email	Contact	Dept	Batch	Room	Country	State	City
Pratik Sinha	UCSE19017	pass1234	28/08/2001	pratik@xub.edu.in	9437111111	CSE	2019	B-227	India	Odisha	Baripada

The background image shows a large building and a field. The Windows taskbar at the bottom indicates the system time is 21:00 on 01-04-2021.

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