
DOCUMENTATION

for

HOSTEL ROOM ALLOCATION AND MAINTENANCE SYSTEM

Prepared by

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1.MODULES

The project has been a **Main** module and three parallel modules.

- 1.Admin
- 2.Hostel Manager
- 3.Student

The main directory contains the login and sign-up files for each of these modules.

Each of these three modules contain the files necessary for its functioning which includes the backend code as well as the frontend code.

1.1.Main Module

The main module(or directory) houses all other modules. Moreover, this module contains the login forms of Admin,Hostel Manager and Student in addition to the sign-up form of the Student.

It accepts the required data and redirects the user to the concerning module.

1.2.Admin Module

This module deals with the functionality of the Administrator.

The assumption is that a particular Administrator has been previously hard-coded into the database.

As previously mentioned the module contains both the frontend and backend pertaining to it.

With respect to this application an Administrator can:

- 1.Appoint a Hostel Manager
- 2.Remove a Hostel Manager
- 3.Search for particular students.

4.View his/her profile.

The provision to perform all of the above tasks are included in this specific module.

1.3.Hostel Manager Module

This module deals with the functionality of the Hostel Manager. Each Hostel has a particular Hostel Manager who oversees the maintenance and day to day of that particular hostel.The Hostel Manager has been previously appointed by the Administrator.

With respect to this application a Hostel Manager can:

- 1.Allocate Students in accordance with the application submitted by them.
- 2.View the messages that are sent by the students to them.
- 3.View all the Empty rooms or search for them.
- 4.View all the allotted rooms or search for them.
- 5.Vacate a specific room.
- 6.View his/her profile.

The provision to perform all of the above tasks are included in this specific module.

1.4.Student

This module deals with the functionality of the Student. Students sign-up through the main module and login through there.

With respect to this application a Hostel Manager can:

- 1.Apply to a specific Hostel
- 2.Send a message to the Hostel Manager of their Hostel.
- 3.View the details of their profile which contains the details of their hostel allocation (Not Alloted,Pending or Alloted).

The provision to perform all of the above tasks are included in this specific module.

2.CODE DESCRIPTION

This being primarily a web application much of the entirety of this project has been done with the help of PHP, MySQL, HTML, CSS and Javascript.

The Front end of a website is the part that users interact with and this has been done with the help of HTML and CSS with the Bootstrap framework in order to provide a responsive User Interface. A General Layout of the Web Page was obtained from W3Layouts.

The Back end of a website consists of a server, an application, and a database and has been done with the help of PHP and MySQL. To run PHP for the web, you need to install a Web Server like Apache and you also need a database server like MySQL. The open source web server used is XAMPP.

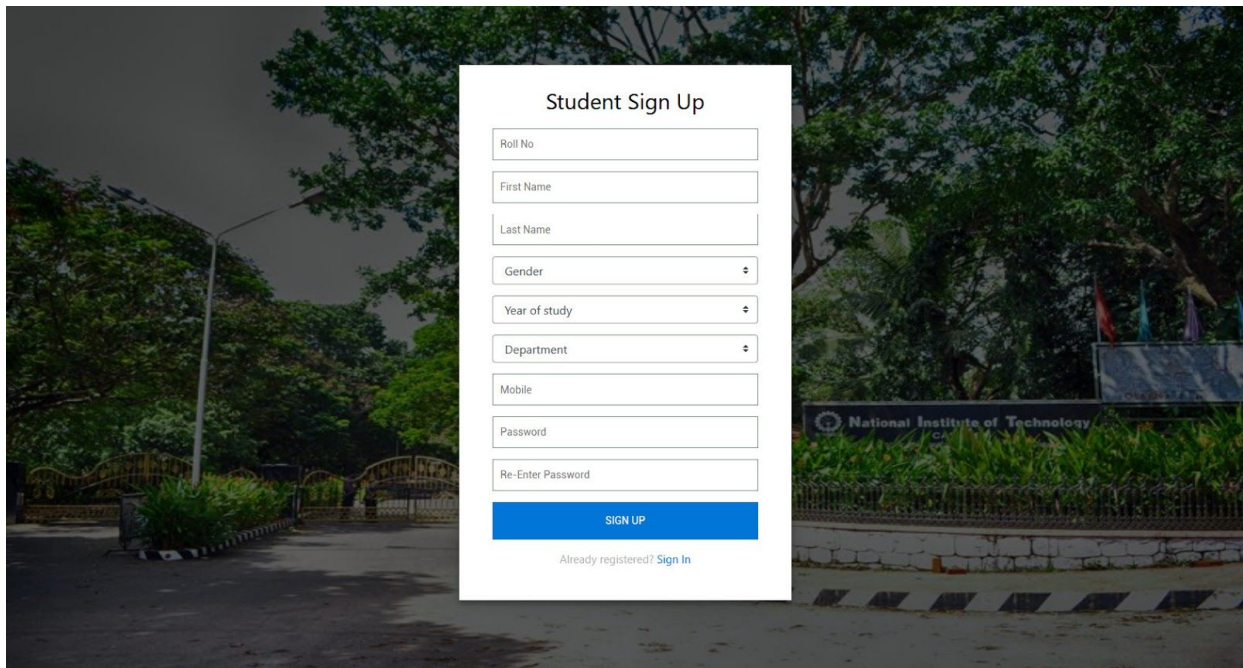
Each module contains the necessary resources i.e the CSS files the images, logos, necessary javascript files for bootstrap in addition to the PHP code within itself, hence making it independent from the other modules and thereby achieving a sense of modularity.

The main directory contains the three modules Admin, Hostel Manager and Student. Each of these modules contains the HTML, CSS and Javascript codes necessary for its frontend function as well as the PHP codes necessary for the backend functionalities.

3.INPUT AND OUTPUT FORMAT

Since it is primarily a web application this application has a very intricate UI.

- Below given is a Sign up page for reference.



Student Sign Up

Roll No

First Name

Last Name

Gender

Year of study

Department

Mobile

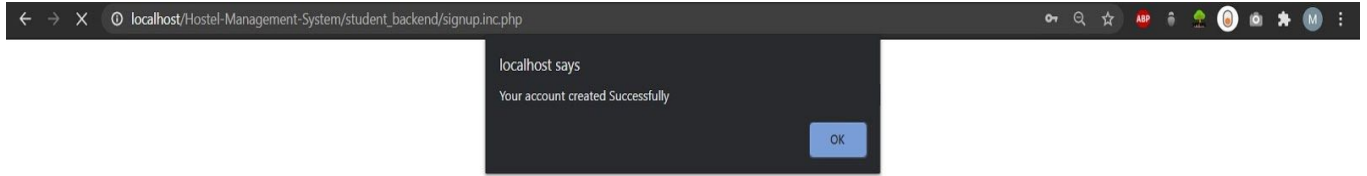
Password

Re-Enter Password

SIGN UP

Already registered? [Sign In](#)

- After the corresponding entries have been it shows the corresponding pop-up output which says that the action was successful.

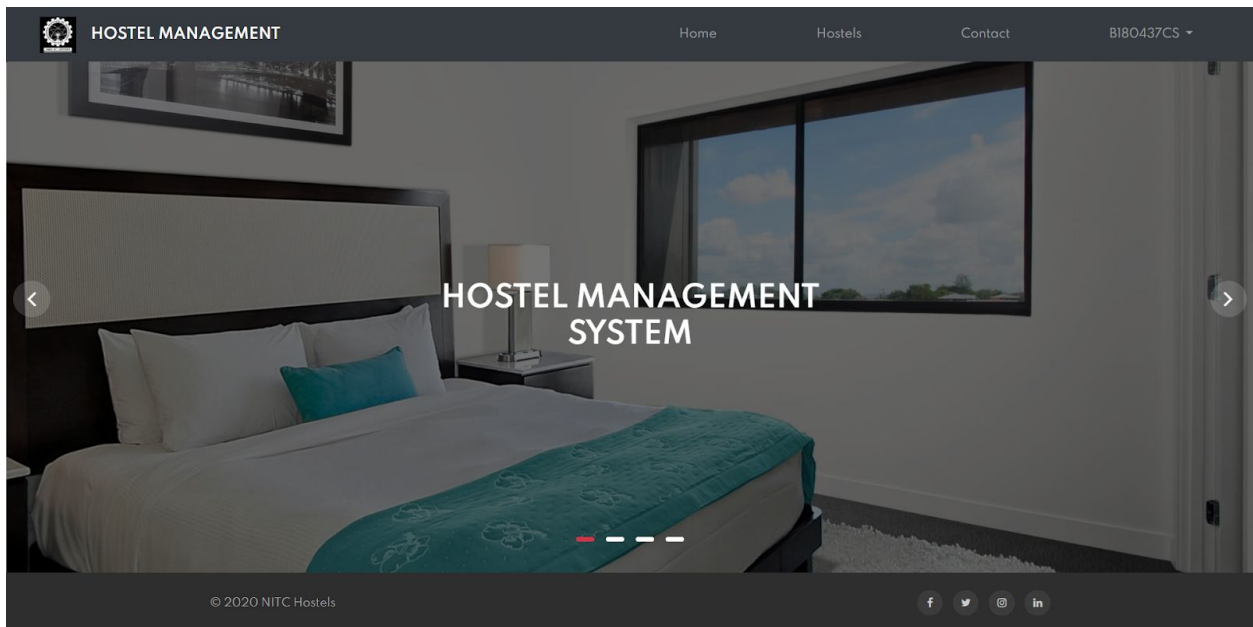


- After the action was completed we can see that our database has changed according.

student_id	f_name	l_name	year	dept	password	hostel_id	room_id	gender	mobile
B180437CS	Mohammed	Ismail	3	CSE	ismail	NULL	NULL	1	9769875687

Row inserted in student table after successful sign up

- After that it redirects to the corresponding page.



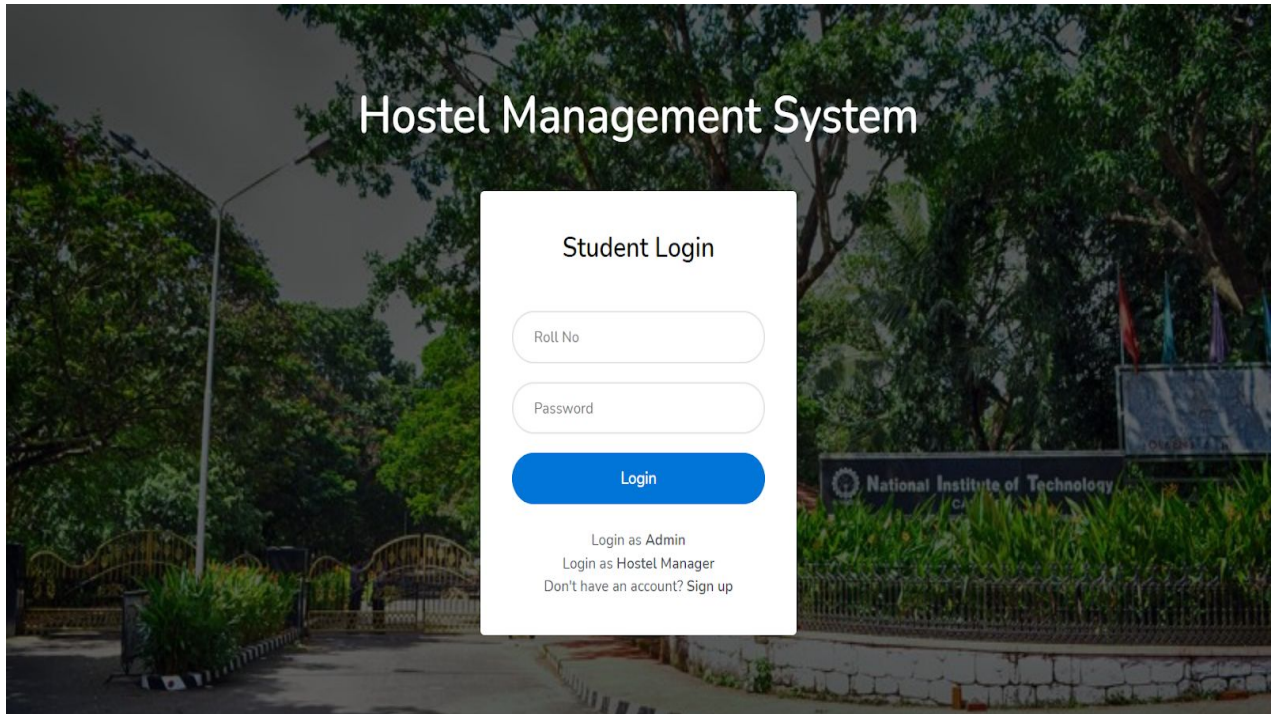
The navigation bar helps the user to seamlessly switch between the web pages and choose the appropriate functionalities offered to them.

From here on out ,the entire application follows this type of an input and output format

4.HOW TO GET IT RUNNING

In order to get a brief demonstration of the functionality of the application follow the corresponding steps:

- 1.Download the code from github using the link:<https://github.com/mohammedismailb18/Hostel-Management-System> into your local machine.
2. In Order to run an Apache server and a MySQL server download xampp.
- 3.A 'hms.sql' backup file has been provided in which some sample database entries have been created load this into your corresponding MySQL database.
- 4.Enter the relevant details into the database.
- 5.After entering in the address of the main directory of the code into your localhost you will be greeted with this page.



6. Proceed in accordance with your use case.

7. In order to gain admin access, these are the sample admin details that are provided in the 'hms.sql' database.

Admin Username: 'admin'

Admin Password: 'admin'

You may use or change the details accordingly.