

A  
Project Report  
On  
  
**“Online Hostel Management System”**

Submitted by  
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BSC-ECS-III

Under the guidance of  
**Miss . Patil S.T.**



**Computer Science Department**  
**Sangameshwar College, Solapur**  
**Autonomous**  
**2023-2024**



# Sangameshwar College, Solapur

An Autonomous Institute Affiliated to PAHSUS

Reaccredited by NAAC with 'A' grade in Cycle III- 3.39 CGPA

## Department of Computer Science

### CERTIFICATE

This is to certify that

Name

Miss. Priyanka Bolde

Exam Seat no.

Student of the Sangmeshwar College have successfully completed a Project Report entitled of  
**“Online Hostel Management System”** in partial fulfilment of Bachelor of Science (Entire Computer Science) as prescribed by Sangameshwar College, Solapur for the Academic Year 2023-2024.

Project Guide  
Ms. Patil S.T.

External Examiner

Convnor  
Mrs. Hundekari R.V

Director  
Ms. Kadadi J.J

## **DECLARATION**

**To ,  
The Controller of Examination ,  
Sangameshwar Collage , Solapur Autonomous  
Solapur .**

Respected sir / Madam ,

We hereby declare that the project work entitled **“Online Hostel Management System”** submitted to the **“Sangameshwar College, Solapur”** is a record of original work done by me **Miss.Priyanka Bolde** under the guidance of **Ms. Patil S.T.**

This project work is submitted in the partial fulfilment of the requirements for degree of Bachelor of Science in Entire Computer Science.

The result embodied in this thesis have not been submitted to any other University or Institution for the award of any degree.

Name	Exam Seat No.	Signature
Miss. Priyanka Bolde		

Date :

Place : Solapur

## **ACKNOWLEDGEMENT**

A successful project is a faithful culmination effort by many people some directly involve ,some other quite encourage and extended support from background.

First of all ,we sincerely express our gratitude towards **Dr. R . P. Buwa sir (Principal, Sangameshwar College Solapur Autonomous)** for permitting us to select this topic for our project work.

we extend our appreciation towards **Ms. Kadadi J . J. (director , management and computer science department)** and **Ms . Patil S . T . (Project guide)** for their proper guidance and encouragement in completing this project successfully. They have given me the golden opportunity to develop this project . also they encouraged me to think deeply by challenging and questioning my concepts and ideas.

We wish to convey special thanks towards all our friends for being cooperative with us and provide valuable suggestions from time to time . We would also like to express our sincere thanks towards all support during the project development . We are grateful to my family members for their moral support throughout this project work .

**Miss. Priyanka Bolde  
BSc (ECS) – III**

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## **1. Introduction:**

“hostel Management is Managing various activities and reduce the work load “

Hostel Management is a website which provides you to takes details about hostel and easy to for taking admission and also provides the facilities for admission . These all services you can get by sitting infront of your computer screen or your smartphone

### **1.1 Project Overview:**

#### **Objective:**

The main objective of this project is to create a separate website which will help peoples to take the instant details or admission for hostel, and details of rent ,allotee room ,payment these records manage. the Project is totally

built at administrative end and thus only the administrator is guaranteed to the access.

In this Hostel Management System application, firstly user have to login to the system. If the user is new then he or she have to fill the registration form then only he or she can able to login to the system. There are provided Admission Details which will helps the user to take admission and details their related admission. We will also provide Online payment their convenience user have to enroll and confirm the admission to „sangameshwar Hostel” also provides daily Updates abouts Hostel And Daily Menu’s. And also student can provides the feedback about Hostel services

## 1.2 Existing System:

Up to now there is no software availability for Hostel Management System. The whole System handled by manually. All the information is stored in the form of Registry book. It is very Hard for keeping all the information safely for long time.

- More peoples are involved for the data handling.
- All the services are provided by online and offline mode.
- Payment transactions are completed by cash and also online payment available .

## 1.3 Proposed System:

To overcome the problem of existing system we are going to implement the “**Hostel Management System**”. The central objective of this system is to reduce the manual work and Time. In this system admin entity records the admission and allocated the Room, bed or modify it also .

If the user is new then user must have to register to the system. The registration form will be displayed to user. The user must fill the information like username, email, address, mobile no, etc. After completing the user registration process then users have to login the system with their email id and password that has been created at the time of registration. Then user have to take admission for hoste.l after that user can pay the payment, after completing the process then

provided to the user as a next allocates the rooms and bed number . then provided to user next application leave application for holidays and updates list abouts mess and there menu's. After completing the process user have to give feedback.

The proposed system provides all the information abouts Hostel on this websites .otherwise Contacts of directly to the Rector by contacts number . It is designed in such a way that it can hold all the information that the user needed for the data processing and user or student can communicate to the admin.

## **Characteristics of Proposed System:**

- Gives accurate records quickly as per demand.
- Easy and User-friendly interface for Admin, student and the rector
- Information is stored in the tabular format and easily readable.
- Admin can edit and access the data from anywhere and anytime by logging in.
- Student can use the online services like admission process , hostel rooms allocation
- All the information about students , mess are stored in a proper manner and secured.
- This application can hold a very large amount of data.

## **1.1 Scope of the Project:**

Goals to be Achieved:

1. Provide simple user interface.
2. To avoid manual paper work.
3. To maintain the entire database frequently.
4. To generate all the reports.

## **Future Scope Of the Project :**

1. It will eliminate the need for traditional pen-and -paper method
2. The developed system provides solution to manual hostel management problems
3. It provides information such as hostel information , hostel room , and hostel account information

## **2. Feasibility Study:**

Depending on the result of the initial investigation the survey is now expanded to a more detailed feasibility study." Feasibility study" is a test of system proposal according to its workability, impact the organization, ability to meet needs and effective use of the resources.

We have conducted mainly three feasibility tests as follows:

- 1.Technical Feasibility
- 2.Economic Feasibility
- 3.Operational Feasibility

### **2.1 Project Feasibility:**

#### **1.Operation Feasibility:**

- Operational feasibility considers the acceptability of the system. It checks whether the system will be used if it is developed and implemented.
- System user didn't find any difficulty in learning the system.
- It is window-based GUI (Graphical User Interface)

## **2.Techical Feasibility:**

A study of resource availability that may affect the ability to achieve an acceptable system. This evaluation determines whether the technology needed for the proposed system is available or not.

- In this, all the necessary infrastructure is available in terms of software and hardware, so there is no need to have any additional equipment as such.
- No extra hardware is needed to install or implement the system.
- The system is efficient and accurate.
- There is technical guaranty of accuracy

## **Hardware Specification:**

Processor :- Intel i5 or above

Hard disk : - 512GB or above.

RAM :- 8 GB or above

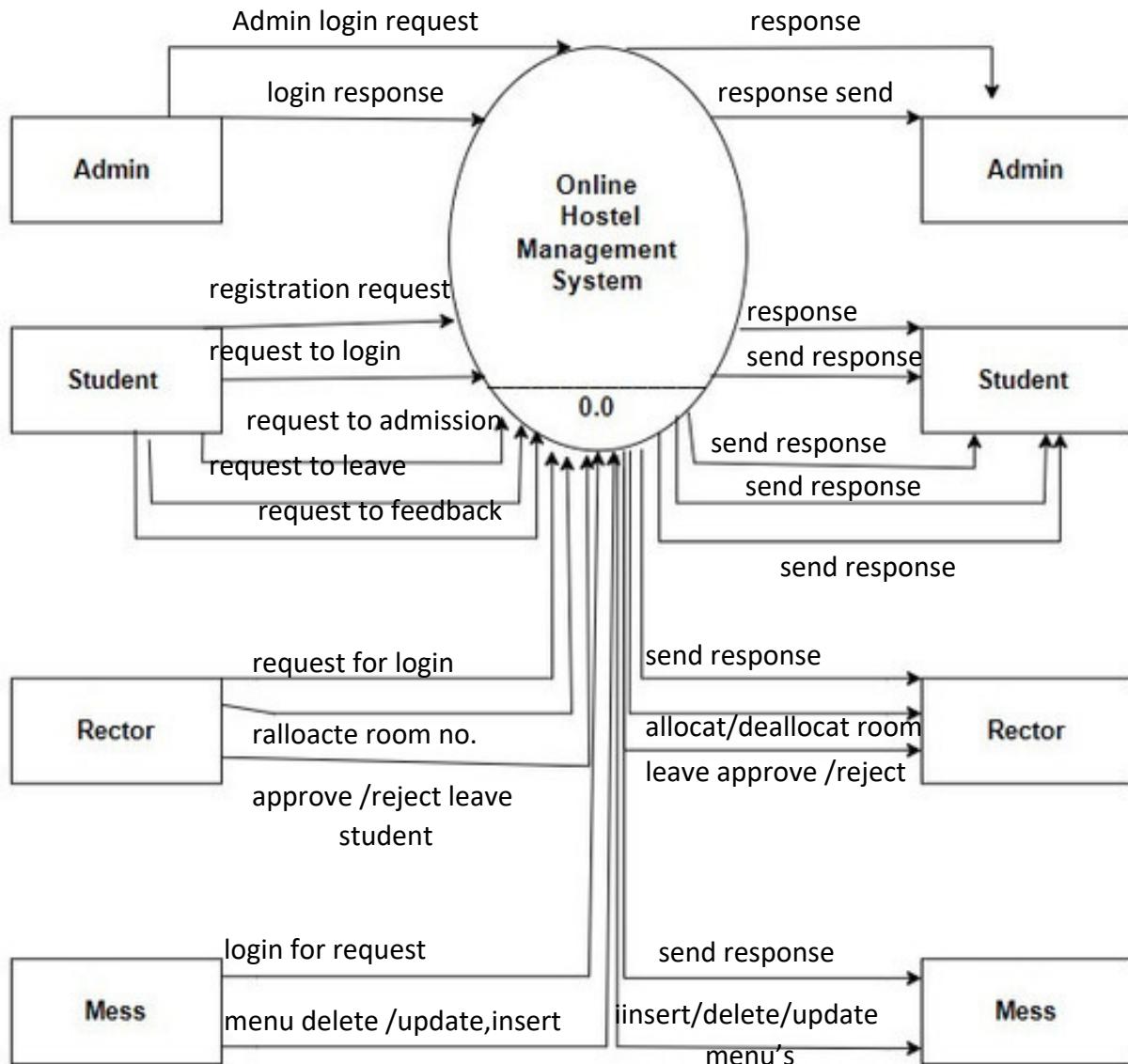
## **Software Specification**

- Operating System :- Windows 11 and above
- Development Tool : NETBEANS 8.2
- Database Used : MYSQL
- Technology Used : JSP
- Code Behind : Java

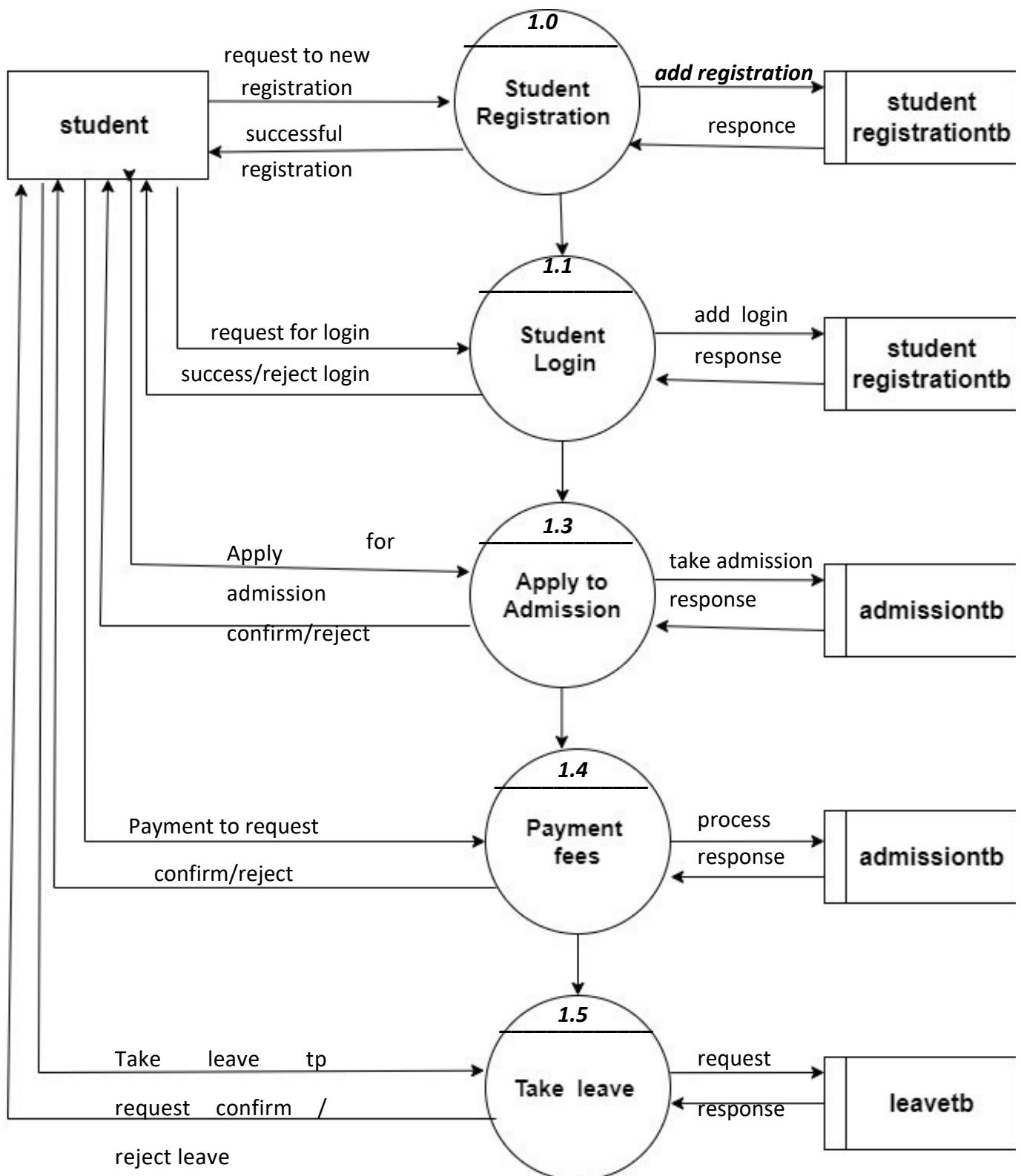
### 3. System Design :

3 . Data Flow Diagram (DFD) :

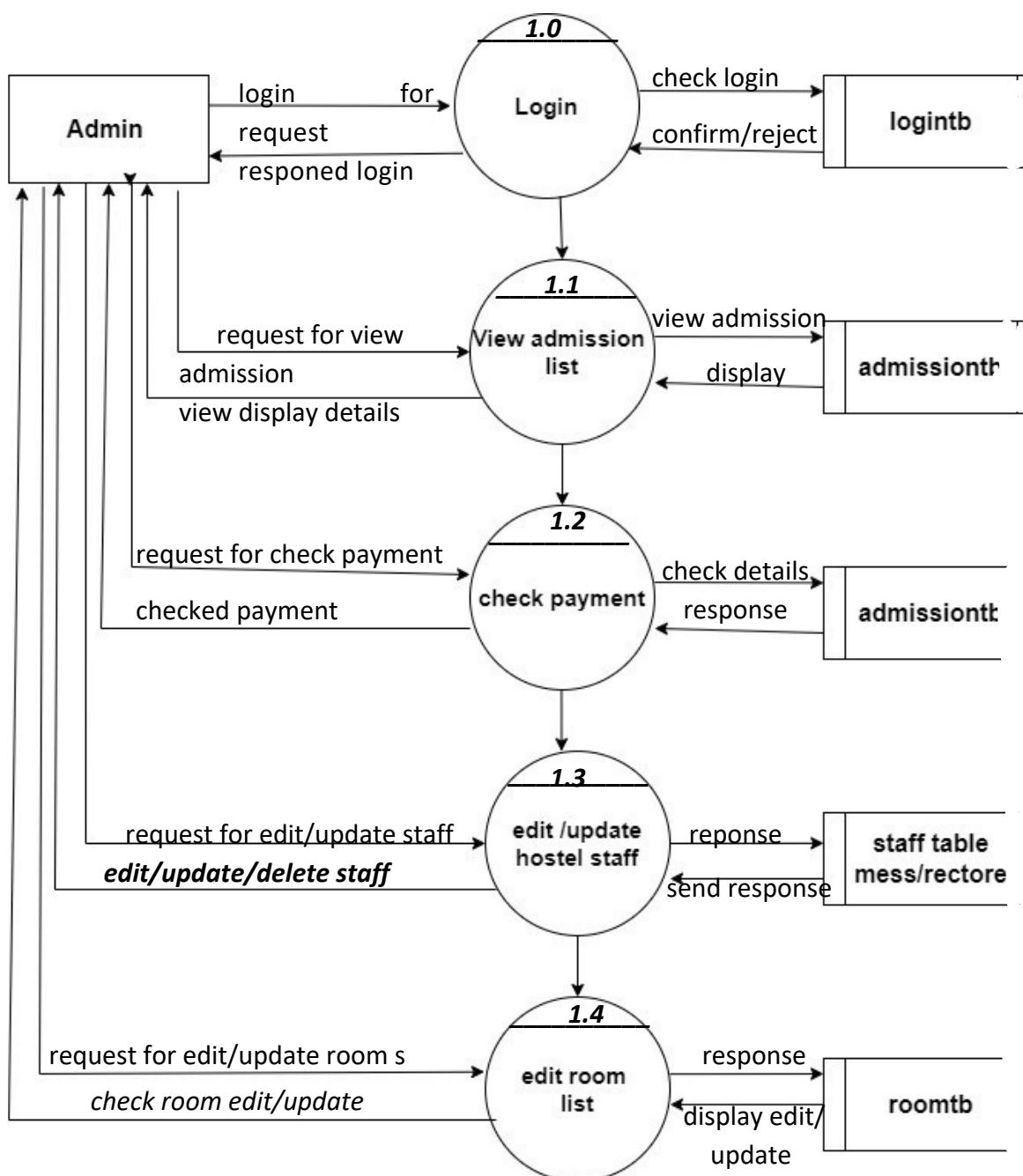
context Level Diagram :



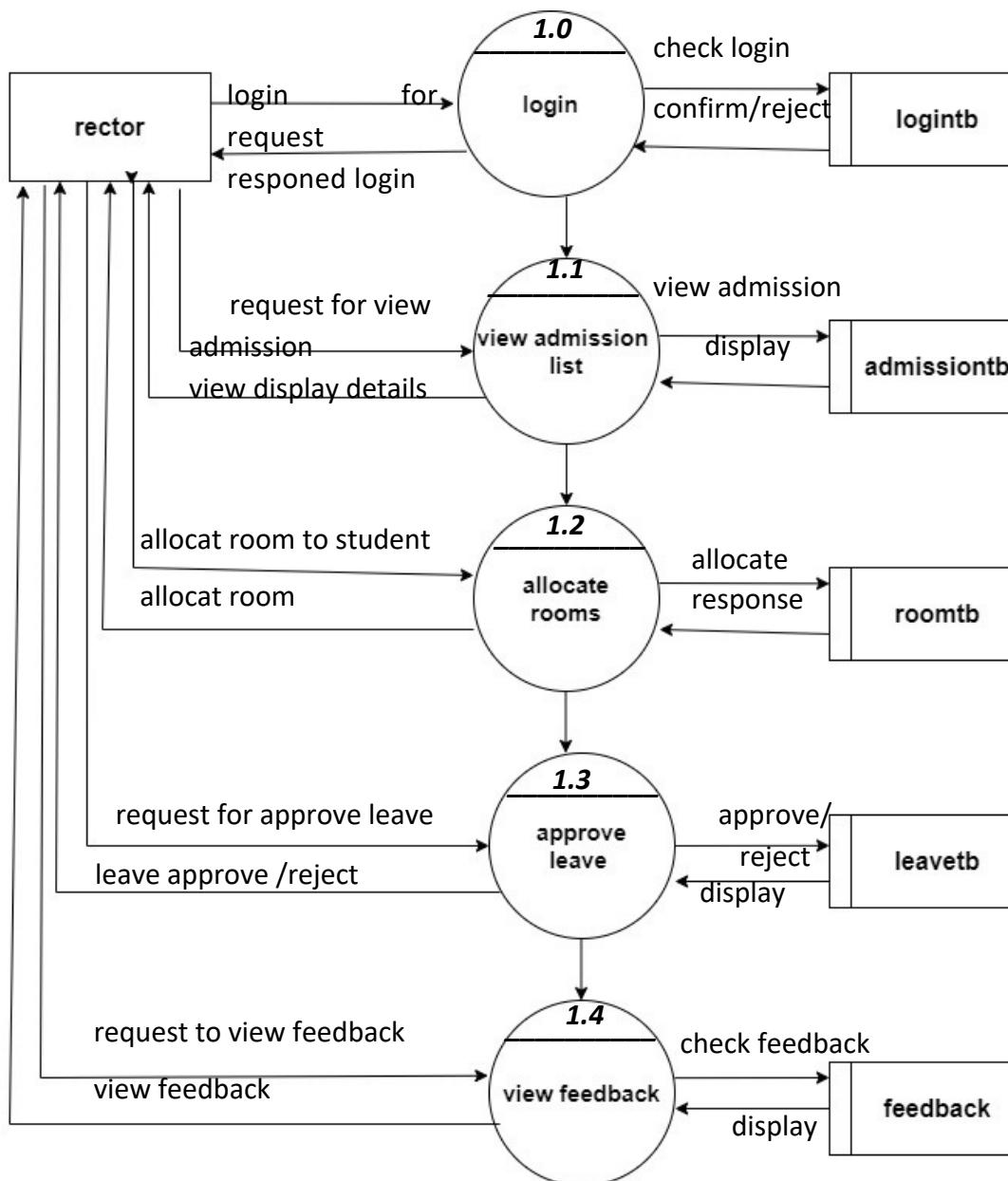
## • Student 1st Level DFD:



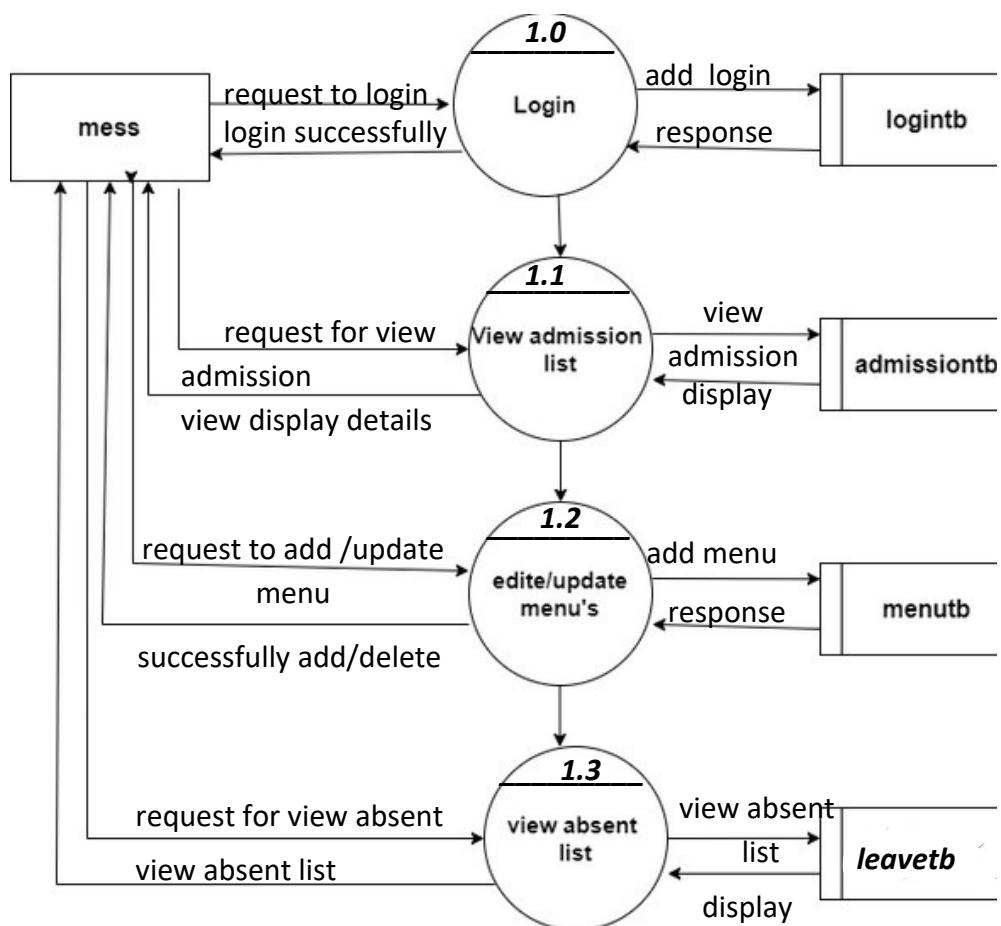
# Admin 1st Level Dfd



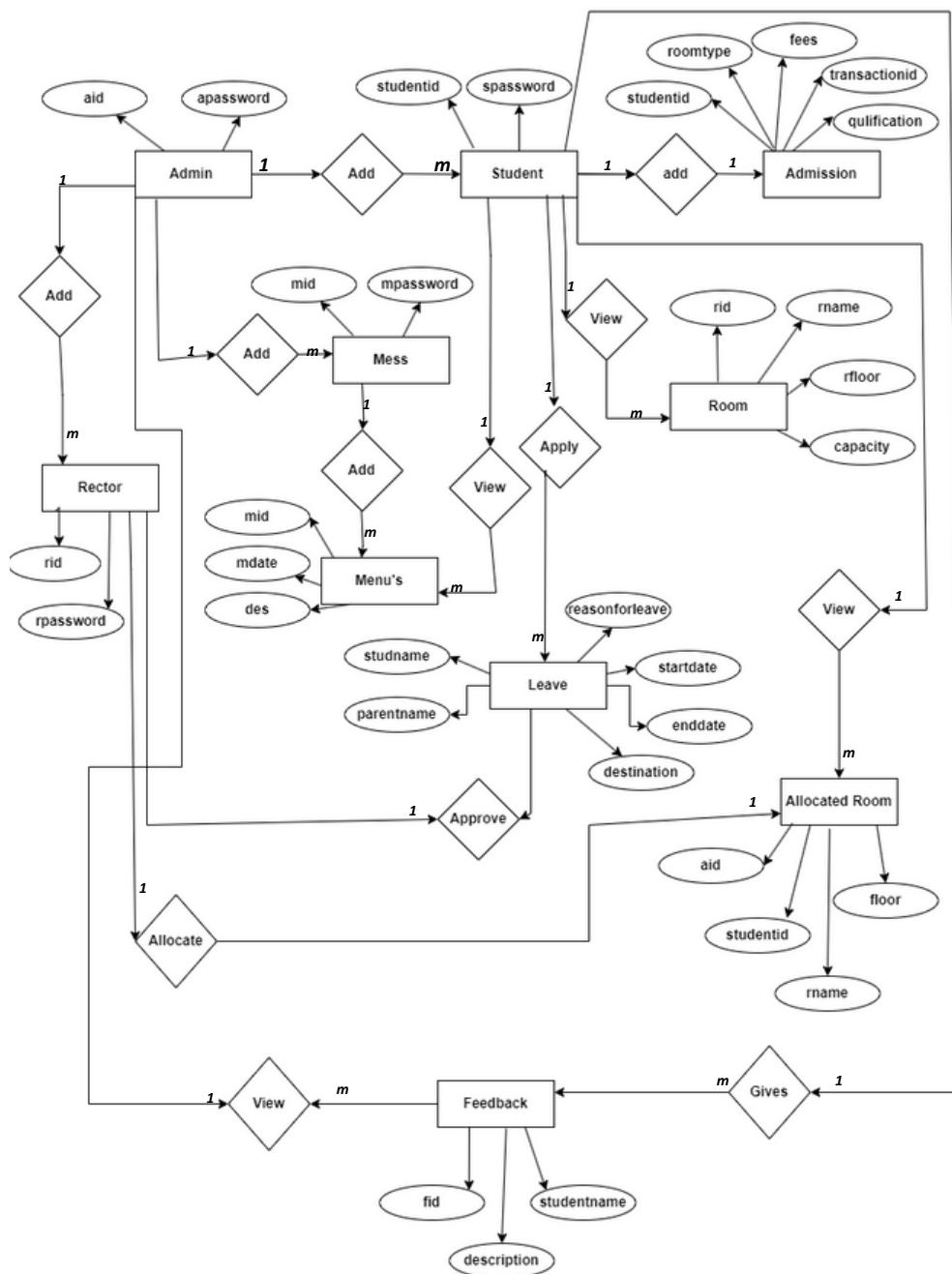
## • Rector 1st Level Dfd



## • Mess 1st Level Dfd



## • Entity Relationship Diagram



### 3.3 Data Dictionary :

#### ADMIN LOGIN TABLE

admin_login			
SR.	COLUMN NAME	DATA TYPES	CONSTRAINT
1	<i>aid</i>	<i>int</i>	<i>pk</i>
2	<i>aemail</i>	<i>varchar(200)</i>	<i>unique</i>
3	<i>apass</i>	<i>varchar(200)</i>	<i>not null</i>

#### STUDENT REGISTRATION TABLE:

student_registration			
SR.	COLUMN NAME	DATA TYPES	CONSTRAINT
1	<i>std_id</i>	<i>int</i>	<i>pk</i>
2	<i>std_name</i>	<i>varchar(200)</i>	<i>not null</i>
3	<i>std_email</i>	<i>varchar(200)</i>	<i>not null</i>
4	<i>std_password</i>	<i>varchar(200)</i>	<i>not null</i>
5	<i>std_mobileno.</i>	<i>varchar(200)</i>	<i>not null</i>
6	<i>std_aadhar</i>	<i>varchar(200)</i>	<i>not null</i>
7	<i>std_address</i>	<i>varchar(200)</i>	<i>not null</i>
8	<i>std_city</i>	<i>varchar(200)</i>	<i>not null</i>
9	<i>std_gender</i>	<i>varchar(200)</i>	<i>not null</i>
10	<i>std_birth</i>	<i>varchar(200)</i>	<i>not null</i>

**STUDENT ADMISSION TABLE:**

student_admission:			
SR.	COLUMN NAME	DATA TYPES	CONSTRAINT
1	<i>id</i>	<i>int</i>	<i>pk</i>
2	<i>name</i>	<i>varchar(200)</i>	<i>not null</i>
3	<i>email</i>	<i>varchar(200)</i>	<i>not null</i>
4	<i>mobile</i>	<i>varchar(200)</i>	<i>not null</i>
5	<i>gender</i>	<i>varchar(200)</i>	<i>not null</i>
6	<i>dob</i>	<i>varchar(200)</i>	<i>not null</i>
7	<i>address</i>	<i>varchar(200)</i>	<i>not null</i>
8	<i>city</i>	<i>varchar(200)</i>	<i>not null</i>
9	<i>adhar</i>	<i>varchar(200)</i>	<i>not null</i>
10	<i>qualification</i>	<i>varchar(200)</i>	<i>not null</i>
11	<i>specialization</i>	<i>varchar(200)</i>	<i>not null</i>
12	<i>roomtype</i>	<i>varchar(200)</i>	<i>not null</i>
13	<i>fees</i>	<i>varchar(200)</i>	<i>not null</i>
14	<i>transation_id</i>	<i>varchar(200)</i>	<i>not null</i>
15	<i>sname</i>	<i>varchar(200)</i>	<i>not null</i>

**STUDENT LEAVE TABLE :**

<b>student_leave :</b>			
SR.	COLUMN NAME	DATA TYPES	CONSTRAINT
1.	<i>id</i>	<i>int</i>	<i>pk</i>
2.	<i>student_name</i>	<i>varchar(200)</i>	<i>not null</i>
3.	<i>parent_name</i>	<i>varchar(200)</i>	<i>not null</i>
4.	<i>student_number</i>	<i>varchar(200)</i>	<i>not null</i>
5.	<i>reasonforleave</i>	<i>varchar(200)</i>	<i>not null</i>
6.	<i>start_date</i>	<i>varchar(200)</i>	<i>not null</i>
7.	<i>end_date</i>	<i>varchar(200)</i>	<i>not null</i>
8.	<i>destinationadd</i>	<i>varchar(200)</i>	<i>not null</i>
9.	<i>parent_number</i>	<i>varchar(200)</i>	<i>not null</i>

**STUDENT FEEDBACK TABLE :**

<b>student_feedback :</b>			
SR.	COLUMN NAME	DATA TYPES	CONSTRAINT
1.	<i>f_id</i>	<i>int</i>	<i>pk</i>
2.	<i>s_name</i>	<i>varchar(200)</i>	<i>not null</i>
3.	<i>description</i>	<i>varchar(200)</i>	<i>not null</i>

**MESS LOGIN TABLE :**

mess_login			
SR	COLUMN NAME	DATA TYPES	CONSTRAINT
1.	<i>mess_email</i>	<i>varchar(200)</i>	<i>not null</i>
2.	<i>mess_password</i>	<i>varchar(200)</i>	<i>not null</i>

**MESS MENU'S TABLE:**

mess_menu			
SR	COLUMN NAME	DATA TYPES	CONSTRAINT
1	<i>mid</i>	<i>int</i>	<i>pk</i>
2	<i>date</i>	<i>varchar(200)</i>	<i>not null</i>
3.	<i>des</i>	<i>varchar(200)</i>	<i>not null</i>

**ROOMS TABLE :**

room			
SR	COLUMN NAME	DATA TYPES	CONSTRAINT
1.	<i>room_id</i>	<i>int</i>	<i>pk</i>
2.	<i>room_name</i>	<i>varchar(200)</i>	<i>not null</i>
3.	<i>room_floor</i>	<i>varchar(200)</i>	<i>not null</i>
4.	<i>room_capacity</i>	<i>varchar(200)</i>	<i>not null</i>

**RECTOR LOGIN TABLE :**

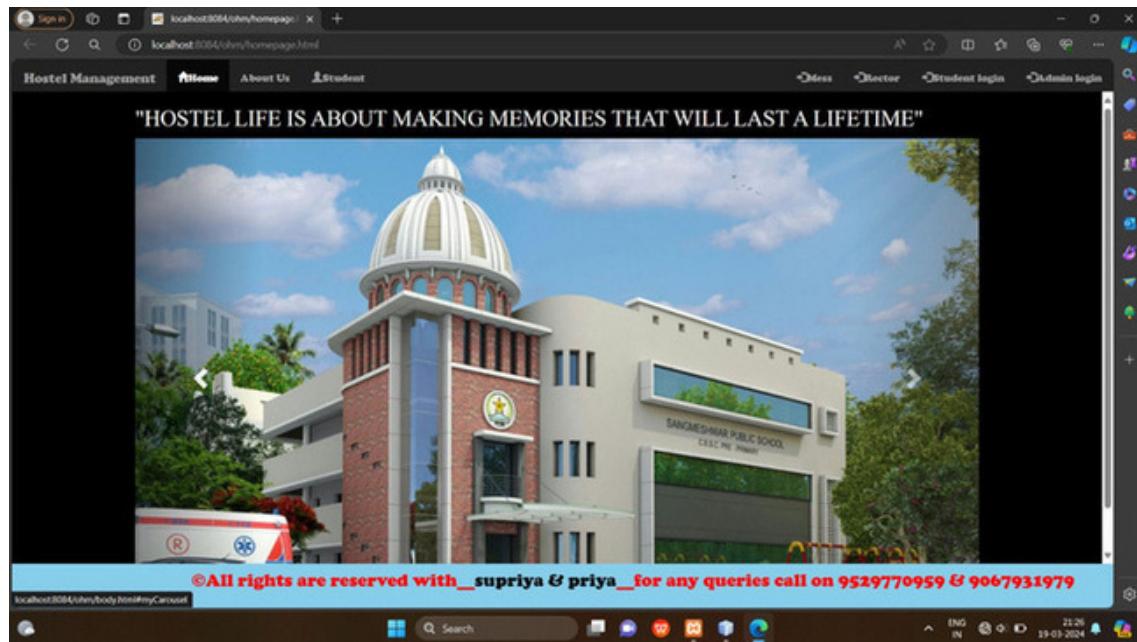
<b>rectorlogin:</b>			
SR	COLUMN NAME	DATA TYPES	CONSTRAINT
1.	<i>rmail</i>	<i>varchar(200)</i>	<i>not null</i>
2.	<i>rpassword</i>	<i>varchar(200)</i>	<i>not null</i>

**ROOM ALLOTMENT ::**

<b>allotment :</b>			
SR	COLUMN NAME	DATA TYPES	CONSTRAINT
1.	<i>aid</i>	<i>int</i>	<i>pk</i>
2.	<i>student_id</i>	<i>int</i>	<i>not null</i>
3.	<i>room_name</i>	<i>varchar(200)</i>	<i>not null</i>
4.	<i>floor</i>	<i>varchar(200)</i>	<i>not null</i>

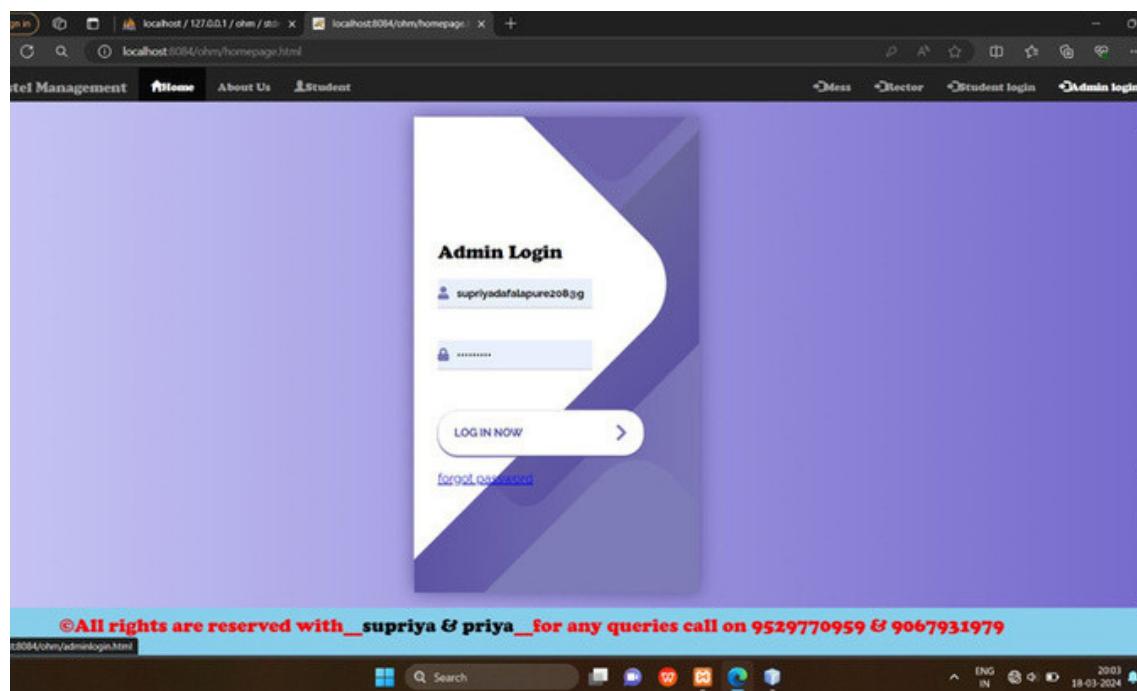
### 3.4 Outtput Screens :

#### *Home page :*



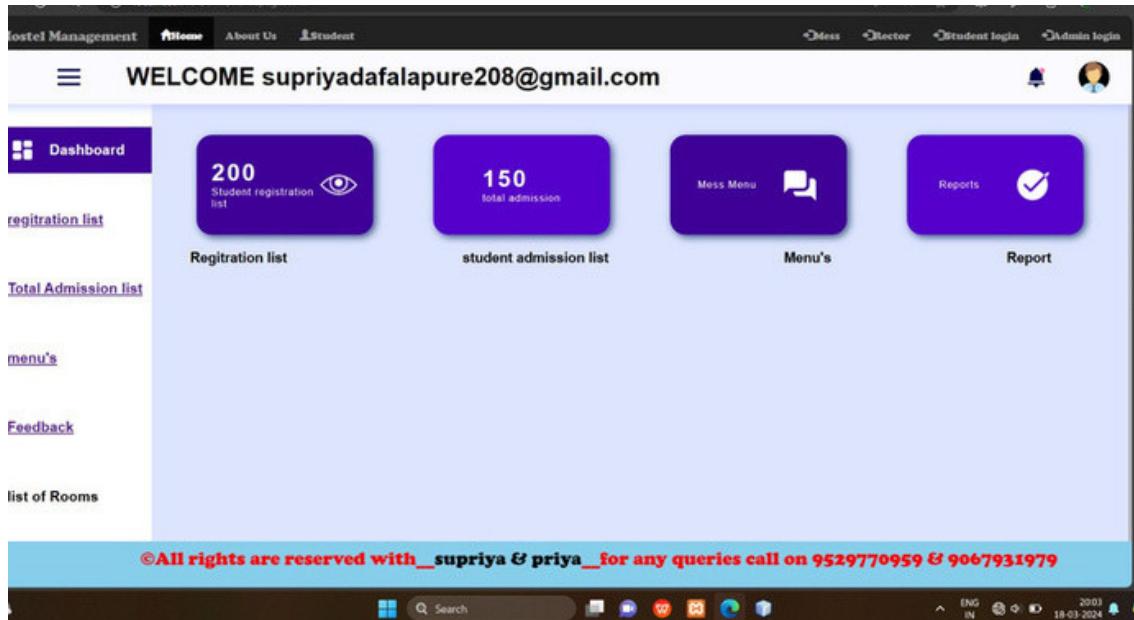
this is Home Page of Online Hostel Management System

#### *Admin page :*



this is Admin Page of Online Hostel Management System

## Admin Dashboard Page



This is Admin dashboard Page of Online Hostel Management System

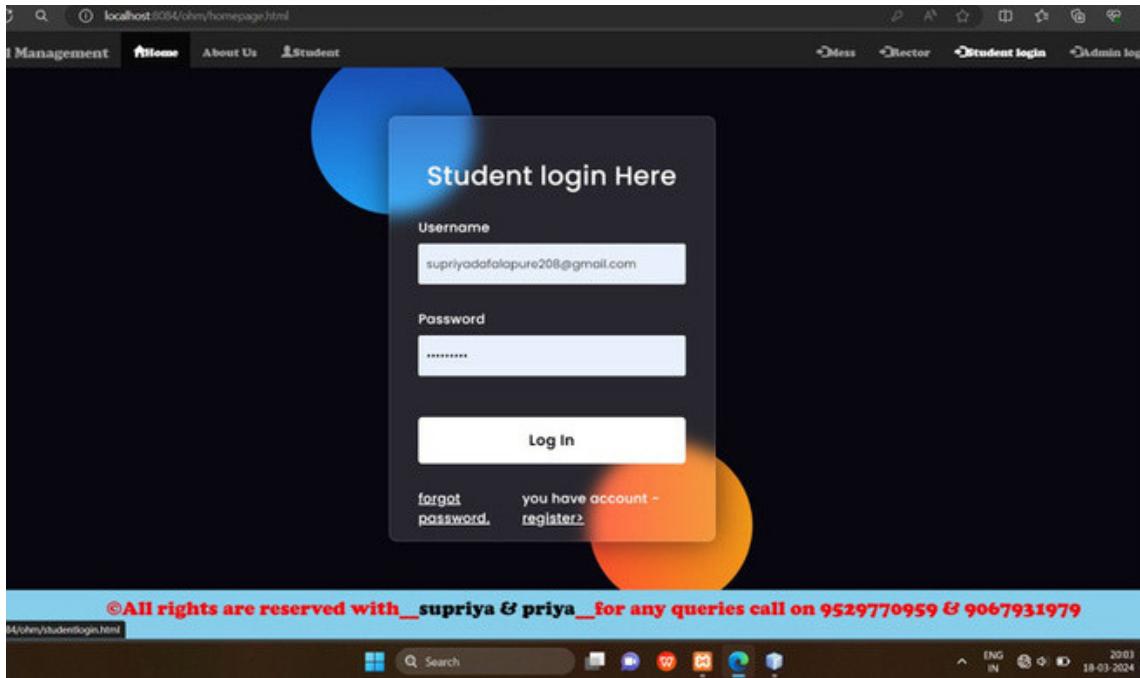
## Room Capacity View Page

View Room Capacity			
Room Id	Room Number	Floor	Capacity
1	101	1	5
2	102	1	6
3	103	1	6
4	201	2	5
5	202	2	6
6	301	3	6
7	302	3	6

At the bottom of the page, there is a footer with the same copyright notice: "©All rights are reserved with supriya & priya for any queries call on 9529770959 & 9067931979". The status bar at the bottom right shows the date as 19-03-2024.

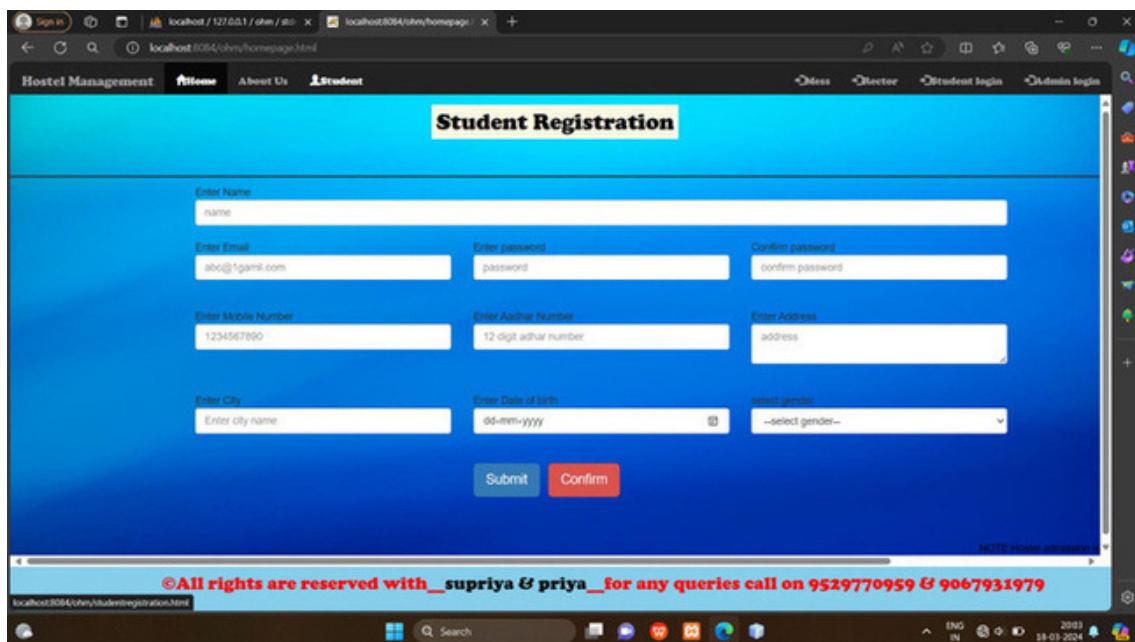
This is RoomCapacity View Page of Online Hostel Management System

## **Student Login Page :**



This is Student Login Page of Online Hostel Management System

## **Student Registration Page :**



This is Student Registration Page of Online Hostel Management System

## Student Admission Page :

**Student Admission Form**

Enter Full Name:

Email:  It should contain @..

Mobile:  only 10 digits are allowed

Gender:  Male  Female

Date Of Birth:  dd-mm-yyyy

Address:

City:

Aadhar Number:  12 digits number

Qualification:

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This is Student Admission Page of Online Hostel Management System

## Student Leave Page:

**Leave Request**

Student Full Name :

Parents Name:

Student Contact Number :

Reason for Leave:

Relative/Parents Contact Number :

Destination Address :

Start Date (dd-mm-yyyy) :  dd-mm-yyyy

End Date (dd-mm-yyyy) :  dd-mm-yyyy

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This is Student Leave Application Page of Online Hostel Management System

## Student Admission List :

The screenshot shows a table titled "Admission List" with the following data:

StudentId	StudentName	Student email	student number	gender	dateofbirth	address	city	adhar number	Qualification	specialization	Room Type	Fees	Tra
18	supriya dafalapure	supriyadafalapure208@gmail.com	9529770959	Female	2024-03-03	solapur	solap	123456789012	BCS	Computer Science	AttachBathroom	36000	
19	abc aaaa	abc@gmail.com	9529770959	Female	2024-03-02	solapur	solap	123456789012	BCS	Computer Science	AttachBathroom	36000	
21	sonali chavan	sona@gmail.com	9076884523	Female	2003-08-20	mohol .	mohol	45231678908	BBA	Tele Communication	CommonBathroom	36000	123

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This is Student admission List Page of Online Hostel Management System

## Student Feedback :

The screenshot shows a table titled "View Feedback" with the following data:

FeedbackId	Student Email	Description
5	abc@gmail.com	good :)
6	sona@gmail.com	hostel facilities is good ... mess also good

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This is Student Feedback Form Page of Online Hostel Management System

## **Student Leave Status :**

The screenshot shows a web browser window titled "localhost:8084/uhm/homepage.html". The main content area is titled "All Student Leave Status". It displays a table with columns: "StudentId", "StudentName", and "Status". The data in the table is as follows:

StudentId	StudentName	Status
18	sachin	Sanctioned
22	priya bolde	Sanctioned
23	priyanka basavraj bolde	Sanctioned
24	abc aaaa	Sanctioned
25	supriya	Sanctioned
26	sonali chavan	Pending

At the bottom of the page, there is a red footer bar with the text: "©All rights are reserved with supriya & priya for any queries call on 9529770959 & 9067931979".

This is Student Leave Status Page of Online Hostel Management System

## **Room Allocation Status :**

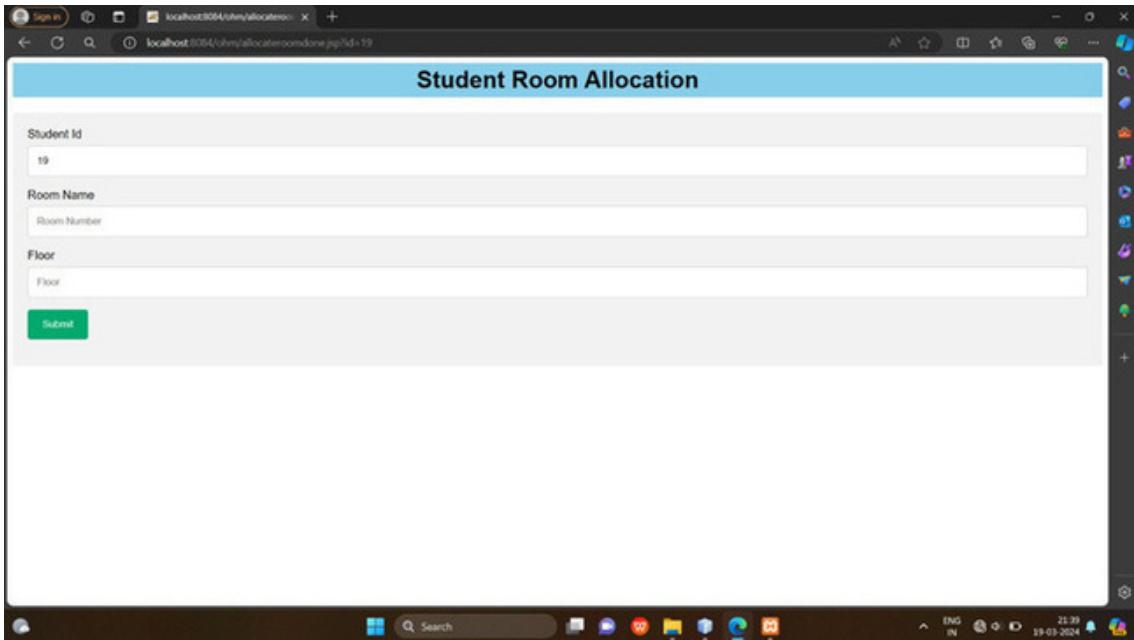
The screenshot shows a web browser window titled "localhost:8084/uhm/homepage.html". The main content area is titled "View Room Allocation of Students". It displays a table with columns: "Allotment Id", "StudentId", "Room Number", and "Floor". The data in the table is as follows:

Allotment Id	StudentId	Room Number	Floor
6	20	201	2
7	21	101	1

At the bottom of the page, there is a red footer bar with the text: "©All rights are reserved with supriya & priya for any queries call on 9529770959 & 9067931979".

This is Student Room Allocation List Page of Online Hostel Management System

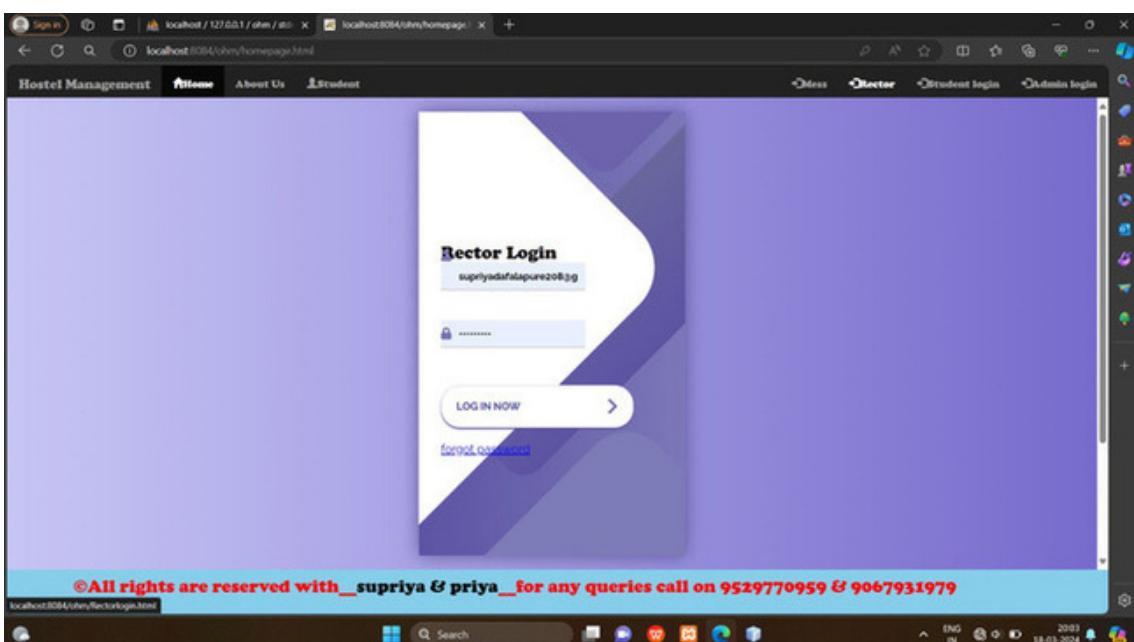
## ***Student Room Allocation Page :***



A screenshot of a web browser showing a form titled "Student Room Allocation". The form has fields for "Student Id" (containing "19"), "Room Name" (containing "Room Number"), and "Floor" (containing "Floor"). A "Submit" button is visible at the bottom left. The browser's address bar shows the URL "localhost:8084/ohm/allocateRoomDone.jsp?id=19". The operating system taskbar at the bottom shows various icons and the date/time as 19-03-2024 21:39.

This is Student Room Allocation FormPage of Online Hostel Management System

## ***Rector Login Page :***



A screenshot of a web browser showing a "Rector Login" form. It includes fields for "username" (containing "supriyadatalapure2020g") and "password" (containing "\*\*\*\*\*"). A "LOG IN NOW" button is at the bottom. Below the form, a link "Forgot Password" is visible. The browser's address bar shows the URL "localhost:8084/ohm/rectorLogin.html". The operating system taskbar at the bottom shows various icons and the date/time as 18-03-2024 20:03.

This is Student Login Page of Online Hostel Management System

## Student Feedback Form Page :

The screenshot shows a web browser window with the title 'Sangameshwar Womens Hostel,solapur'. The page header includes 'Hostel Management' and 'About Us' links. The main content area is titled 'Feedback Form using'. It contains a form with fields for 'Name' (input: supriyadatalapure208@gmail.com) and 'Hostel Feedback' (text area). A 'Submit' button is at the bottom of the form. A red banner at the bottom states: '©All rights are reserved with\_supriya & priya\_for any queries call on 9529770959 & 9067931979'. The browser taskbar shows other open tabs and system icons.

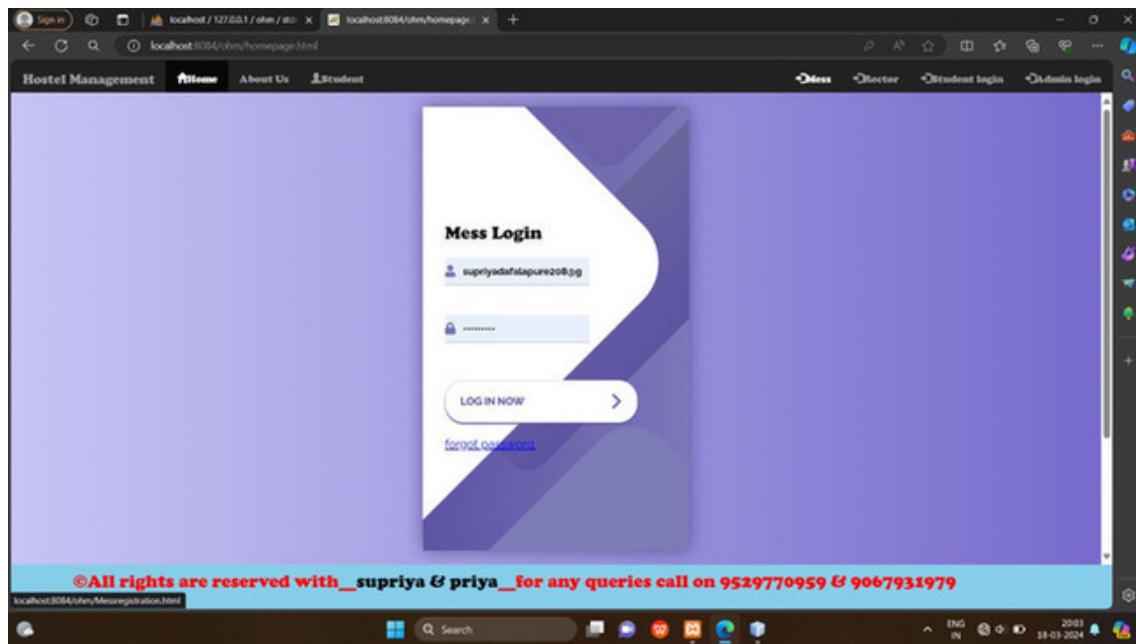
This is Student Feesback Form Page of Online Hostel Management System

## Rector Dashboard Page :

The screenshot shows a web browser window with the title 'Rector Dashboard'. The page header includes 'Hostel Management' and 'About Us' links. The main content area features a large user icon and the text 'Welcome'. Below it is the email address 'supriyadatalapure208@gmail.com'. A sidebar on the left lists navigation options: Home, Approve / Reject Student Leave, Student Admission List, Leave Status, View Feedback, View Room Allotment, Room Allotment, and Final Room Allotment. A red banner at the bottom states: '©All rights are reserved with\_supriya & priya\_for any queries call on 9529770959 & 9067931979'. The browser taskbar shows other open tabs and system icons.

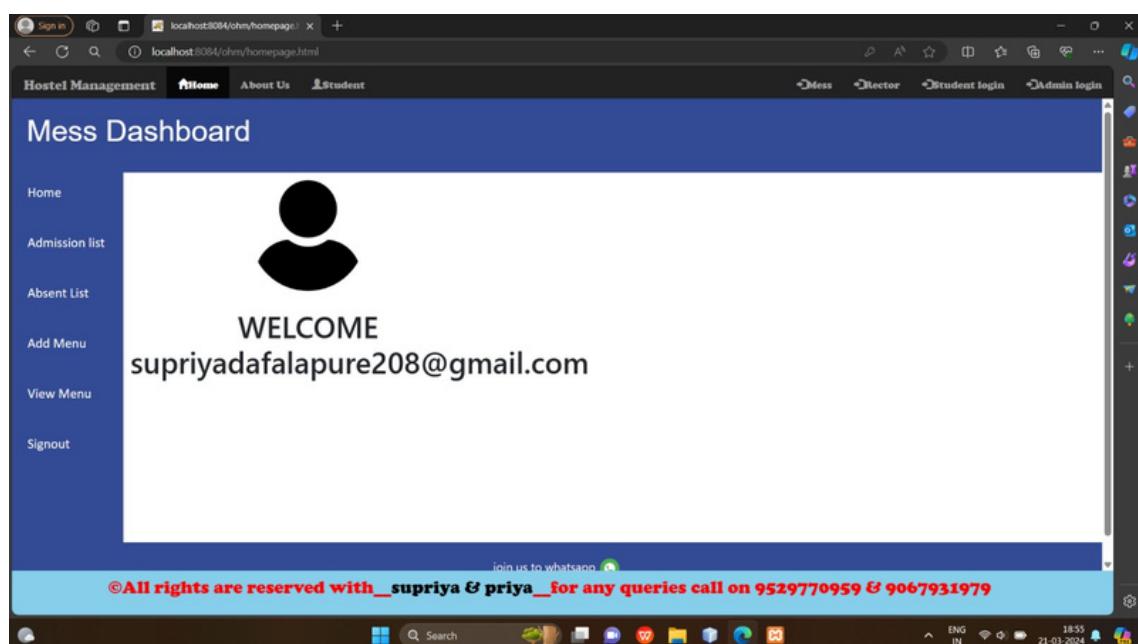
This is Rector dashboard Page of Online Hostel Management System

## **Mess Login Page :**



This is Mess Login Page of Online Hostel Management System

## **Mess Dashboard Page :**



this is mess dashboard page of online hostel management sysytem

## Abouts Page :

The screenshot shows a web browser window for 'localhost:8084/ohm/homepage.html'. The page title is 'Shri Sangameshwar Education Society's --SANGAMESHWAR WOMEN'S HOSTEL--'. It features a dark header with navigation links like 'Hostel Management', 'Home', 'About Us', 'Student', 'Dress', 'Director', 'Student login', and 'Admin login'. Below the header, there's an address: '165.RAILWAY LINE, SAAT RASTA, SOLAPUR MAHARASHTRA-413001'. The main content area is titled 'Our Team' and displays three team members:

- Mr. Kadadi sir**: CEO & Founder. Description: mr.Dharmraj kadadi sir is head of the sangmeshwar Collage and Hostel. Email: jape@example.com.
- Madam**: Head Of The Hostel. Description: deepalikarjikar@gmail.com.
- mrs.sangepag madam**: Madam. Description: manjushasangepag@gmail.com.

A blue footer bar contains the text: "©All rights are reserved with supriya & priya for any queries call on 9529770959 & 9067931979". The browser status bar at the bottom shows the date as 19-03-2024 and the time as 21:26.

## 4. Implementation:

```
<!DOCTYPE html>

<head>
<title>Navbar</title>
</style>
</head>

<body>

<nav class="contb">
<div class="contl">
<ul class="ul1">
<li><a href="#">Online Hostel Management System</a></li>
<li><a href="NEWBODY.html" class="glyphicon glyphicon-home">Home</a></li>
<li><a href="aboutus.html">About Us</a></li>
</ul>
</div>
<ul class="navbar-right">
<li><a href="studentRegistration.html"> Student Registration</a></li>
<li><a href="adminLogin.html"> Admin Login</a></li>
<li><a href="studentlogin.html"> Student Login</a></li>
<li><a href="rectorlogin.html"> Rector Login</a></li>
</ul>
<li><a href="messlogin.html"> Mess Login</a></li>
</ul>

</nav>
</body>
</html>
```

## 5. Tools and Technologies:

### • Java Netbeans:

NetBeans is an integrated development environment (IDE) for Java. NetBeans allows applications to be developed from a set of modular software components called modules. ... Applications based on NetBeans, including the NetBeans IDE, can be extended by third party developers.

Projects under the Netbeans Technology Project tend to have limited lifecycles. Unlike the other top-level Projects, the Technology Projects are meant to be technology explorations or incubators. When these projects have explored, proved, or disproved their associated technologies, the project comes to its natural end. For some projects, this end is a paper publishing the research results; for others, this end is to be incorporated into the base technology of another top-level project.

- MySql:

MySQL is a relational database management system (RDBMS) developed by Oracle that is based on structured query language (SQL).A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or a place to hold the vast amounts of information in a corporate network

- Java Server Page (JSP):

JavaServer Pages (JSP) is a technology for developing Webpages that supports dynamic content. This helps developers insert java code in HTML pages by making use of special JSP tags, most of which start with <% and end with %>. Using JSP, you can collect input from users through Webpage forms, present records from a database or another source, and create Webpages dynamically.

JSP tags can be used for a variety of purposes, such as retrieving information from a database or registering user preferences, accessing JavaBeans components, passing control between pages, and sharing information between requests, pages etc

## 6. Bibliography:

[www.getbootstrap.com](http://www.getbootstrap.com)

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[www.youtube.com](http://www.youtube.com)

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[www.pexels.com](http://www.pexels.com)

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[www.w3schools.com](http://www.w3schools.com)

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