

Capstone Project

Scenario:

The hostel management system is designed to streamline operation for a hostel. It will handle tasks such as room allocation, student registration, fee management, room maintenance. The system should allow hostel administrators to manage these tasks efficiently while providing student with a friendly interface to view their information and request service.

user registration and Authentication

Admin → Add student details & Common Password for all the student

&

Provide username & Password

user login → user can log in through login form

user can view Profile

user can change Password

user can logout

User Panel

Contains : notification symbol

Dashboard



my Room

my Profile

→ Book hostel



select type



Tenure (from to date)



check room details with fees



Send request



Booking management → To be approved by admin

Admin Panel

Admin login

Admin Profile

Courses

Rooms

Registration

Student Profile management

Student vacation details

Admin can search for students based on reg no. name, room no.

Payment history Page:

Admin fee management

can update Payment status

generate fee receipt

track Pending Payment

maintainence request.

forms for student to report maintainence
issue

Admin maintainence management:

interface for admin to view, update
and resolve maintainence requests

Status tracking for each request
(eg: Pending resolved)

FRONT END

HTML2 | CSS, Java, script, React.js or

Angular

Bootstrap or materialize

BACK END

node.js with Express.js

Mongo DB

Mongoose

JWT

Blueprint of the website

Admin Portal

Step 1:- Admin login

Hostel management system
userid <input type="text"/>
password <input type="password"/>
<input type="button" value="login"/>
<input type="button" value="forgot Password"/>

Step 2: Admin dash

Hostel management
Dashboard Courses Room sv Stureg manage user access

Step 3: Admin Profil

Hostel	management System
Purchase	Admin Profil
Courses	change Password
rooms	username <input type="text"/>
Stureg	old Pass <input type="password"/>
managess	new <input type="password"/>
	Email <input type="text"/>
	Confirm <input type="password"/>
	<input type="button" value="Cancle"/> <input type="button" value="Cancle"/>

Step 4:- Admin Add course

Hostel management system
Add courses
Course code <input type="text"/>
Course name <input type="text"/>
<input type="button" value="Add courses"/>

Step 5: Admin Edit course

Hostel management system
edit course
course code <input type="text"/>
Course name <input type="text"/>
Course name <input type="text"/>
<input type="button" value="Update course"/>

Step 6: Admin Add room

Hostel management system
Add room
Select <input type="text"/>
Room no <input type="text"/>
Fal <input type="text"/>
<input type="button" value="Create Room"/>

Step 7: Admin Room

Hostel management

All room details

Showing entries

S.no	Rg	Fee	Action
1	100	8k	✓ x
2	101	8k	✓ x
3	102	8k	✓ x
4	103	8k	✓ x

Showing 1 for all entries

Step 8: Admin Edit

Hostel management

Edit room details

seater

Room no

fees

Step 9: management student

Hostel management student

All Room Details

show entries

S.no	student	reg no	contact	seater	bedich
1	Jaya	1370	1234	100	✓ x

Step 10: user Access logs

Hostel management system

S.no	Used	IP	login Time
1	10	...	7:00 Pm
2	10	...	7:00 Pm
3	10	...	8:00 Pm
4	10	...	8:00 Pm
5	10	...	8:00 Pm

user module.

1. user sign up

Hostel management system	
user reg user login	student registration
	reg no: <input type="text"/>
	first <input type="text"/>
	last <input type="text"/>
	mail <input type="text"/>
	gender <input type="text"/>

2. user sign in

Hostel management system	
user reg user login admin login	user login
	Email username <input type="text"/>
	Pass <input type="text"/>
	<input type="button" value="login"/>
<input type="button" value="forgot Password?"/>	

3. user Password Recovery

forgot Password.	
your email <input type="text"/>	
controll <input type="text"/>	
<input type="button" value="login"/>	
<input type="button" value="Sign in"/>	

user dash board

Hostel management system	
<u>Dash board</u>	
my Profile	my room
fill	<u>See all -></u>

user Profile

Reg no	<input type="text"/>
First	<input type="text"/>
middle	<input type="text"/>
Last	<input type="text"/>
Gender	<input type="text"/>
E no	<input type="text"/>

user change Password

change Password	
old pass	<input type="text"/>
new pass	<input type="text"/>
confirm	<input type="text"/>
<u>Cancel</u>	<u>Change Pass</u>

User Hostel Booking

Hostel management system	
Room related info	
Room no	<input type="text"/>
seaster	<input type="text"/>
the person	<input type="text"/>
stay form	<input type="text"/>
Duration	<input type="text"/>
Total	<input type="text"/>

Personal info

reg no	<input type="text"/>
name	<input type="text"/>

address