Capture Project:-

Scenario:-

The _____ hostel management system is designed to streamline operations for a hostel. It will handle tasks such as room allocation, student registration, fee management and room maintainence. The system should allow hostel administrators to manage these tasks efficiently while providing students with a user-friendly interface to view their information and request services.

1) User Registration and Authentication:

Admin → Add student details & common password for all the students
&
Provides username & password

User login → user can log in through login form.

→ user can view Profile (My profile) (filled by Admin)

→ user can change password (
$$Current\ password\ (by\ admin)$$
$$\downarrow$$
$$New\ password$$
$$\downarrow$$
$$Confirm\ new\ password$$
$$\downarrow$$
$$\boxed{Change.}$$

→ user can log out

2) User panel

contains:- Notifications Symbol

→ DashBoard

My Room ← → my profile

→ Book hostel
  ↓ → Select department
  Select Type ✓
  ↓
  Tenure (from to date)
  ↓   (available rooms) based on department
  check room details ↳ price.
    with fees   Finacial record
  ↓   ↓
  Send request   fee due
  ↓   ↓
Booking manage → To be approved by admin   after paying
ment   ↓
                                         Room allotted.

(user can send only one request)

3) Admin panel:-

1) Admin login

2) Admin profile

3) Courses

4) Rooms

5) Registration.

6) Student profile management (edit & delete)

7) Student vacabion details.

8) Admin can search for students based on reg No
   name, or room no.

9) Payment history pages:-

10) Admin fee management

    can update payment status;

    generate fee receipt

    track pending payments

Maintenance Request:-

→ forms for students to report. maintenance issues

Admin maintenance management

→ interface for admin to view, update, and resolve maintenance requests

→ Status tracking for each request (eg. pending, in-progress, resolved

FRONT END

→ HTML/CSS, Java Script, React-js or Angular (for dynamic & responsive UI)

→ Bootstrap or materialize (for UI components)

BACK END

→ Node.js with Express.js

→ MongoDB (Storing student & roomdata

→ mongoose (for interacting with MongoDB)
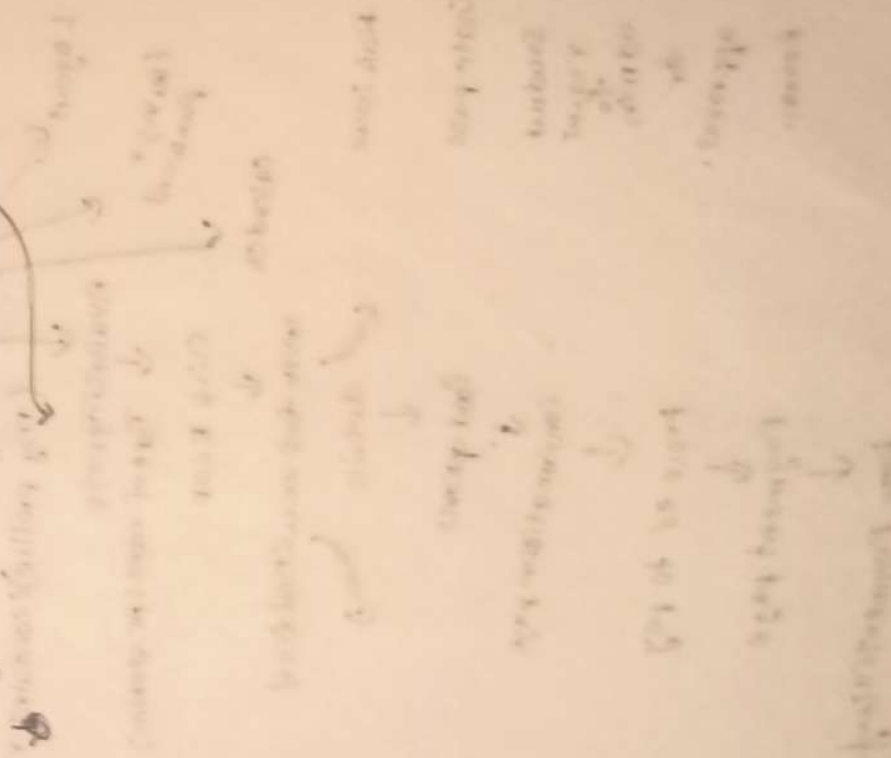
→ JWT (for authentication & authorization)

Flow

1. Home page

   → Admin login
   → Student login
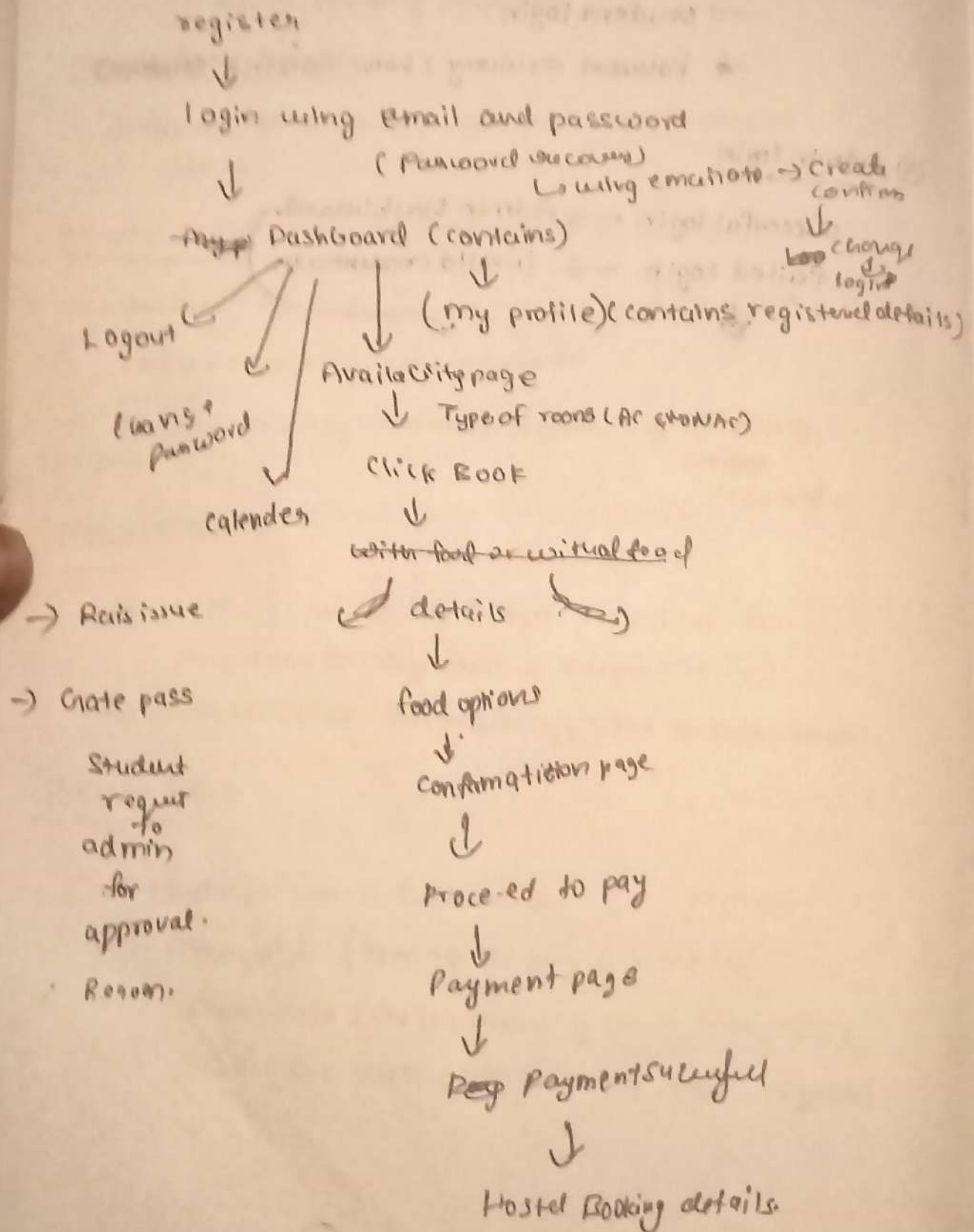   • Password Recovery (both Admin & Students)

2. Admin login

   Successful login → Admin Dashboard
   Failed login → Invalid credentials

Task

To book Hostel in the college.

User flow

register
↓

login using email and password
↓
(Password recovery)
→ using email to → Create
confirm
↓ change
too login

My Dashboard (contains)
↓

Logout ←
(my profile)(contains registered details)

(vans & password

Availability page
↓ Type of rooms (AC & NONAC)

calender

Click Book
↓

→ Rais issue

with food or without food
details

↓

→ Gate pass

food options
↓

Student
requr
to
admin
for
approval.

Confirmation page
↓

Proceed to pay
↓

Room:

Payment page
↓

Reg Payment successful
↓

Hostel Booking details.

Blueprint of Hostel website

(1) Admin Portal

Step 1:- Admin login

Hostel Management System

[username]

[password]

[login]

Forgot password?

Step 2:- Admin dashboard

Hostel Management		Request ∨
Dashboard	Dashboard	
Courses ∨	[Room Detail] [Room Detail] [Courses Detail]	
Rooms ∨		
Stu req		
Manage Stu		
User access login		

Step 3:- Admin profile:

Hostel Management System	Account ∨	
Dashboard	Admin profile	Change password
Courses	Username	Old pass: [ ]
Rooms	[Full name]	recopan: [ ]
	Email [ ]	Confirm Pas [ ]
Stu req	Regdate [ ]	
Manage stu	[Cancel] [Update Profile]	[Cancel] [Change Password]
User access login		

Step 4:- Admin Add course

Hostel Management System	Account ∨
Add courses	
Add courses	
Course code [ ]	
Course Name [ ]	
[Add course]	

Step 5:- Admin Edit course

Hostel management System.

Edit course

Edit courses

Course code [ ]

Course Name [ ]

Course name short [ ]

[Update course]

Step 6:- Admin Add room

Hostel Management System.

Add a room

Add a room.

Select Room Scater [∨]

Room No [ ]

Feel (rentus) [ ]

[Create Room]

Step 7:- Admin Manage Rooms.

Step 8:- Admin Edit room details

Hostel Management System.

All room details.

Show [10 ▼] entries

Sno	Seater	Room No	Fee	Full	Action
1	5	100	8k	13/4	☑ ×
2	5	101	3/c	15/6	☑ ×
3	6	102	8k	18/6	☑ ×
4	5	103	6/c	15/6	☑ ×

Previous [1] Next

showing 1 for of entries.

Hostel Management System.

Edit room details

Seater [5]

Room No [100]

Room No can't be changed

Fees (PM) [ ]

update room details

Step 9:- Manage registered Students

Hostel Management Students

ALL ROOM DETAILS

Show [10 ▼] entries

S.No	Student Name	regNo	Contact No	room No	Seter	Stay from	Action
1	Ajay	1230	7989 saig	100	5	22-16	☑ ×

showing 1 of 4 entries.

Prev [1] Next

Step 10. - User Access logs.

Hostel Management System.

S.No	uurd	IP	Login Time
1	10	. . 1	7:00 pm
2	10	. . 1	7:00 pm
3	10	. . 1	8:00 PM
4	10	. . 1	8:00 pm
5	10	. . 1	8:00 pm

user Module

1) user Sign up

Hotel Management System

user reg	Student registration
user login	reg no [_____]
admin login	First name [_____]
	Last name [_____]
	[dropdown ▼]
	[_____]
	Email [_____]
	Pass [_____]
	[Cancel] [Register]

2) user Sign in

Hotel Management System

user reg	User login
user login	
Admin login	Email [_____]
	Password [_____]
	[login]
	forgot password ?

3) user Password Recovery

Forgot password

Your Email
[_____]

Your contact no
[_____]

[login]

Signin ?

User dashboard:-

```
┌─────────────────────────────────────────────┐
│  Hostel Management System                     │
│ ┌──────────┬──────────────────────────────┐  │
│ │ dashboard│  Dashboard                   │  │
│ │ myprofile│ ┌──────────────┐ ┌─────────┐ │  │
│ │ Change   │ │ My profile   │ │ my room │ │  │
│ │ password │ │ full detail→ │ │ see all→│ │  │
│ │ Bookhout │ └──────────────┘ └─────────┘ │  │
│ │ Roomdetail│                             │  │
│ │ Acculog  │                              │  │
│ └──────────┴──────────────────────────────┘  │
└─────────────────────────────────────────────┘
```

User Profile:-

```
┌─────────────────────────────────────────────┐
│  Hostel Management System                     │
│ │      profile                                │
│ │   Reg No    [          ]                    │
│ │   first name [          ]                   │
│ │   middle name [          ]                  │
│ │   last cue   [          ]                   │
│ │   Gender     [          ]                   │
│ │   C.No       [          ]                   │
│ │   Email      [          ]                   │
│ └                                             │
└─────────────────────────────────────────────┘
```

User change password:-

```
┌─────────────────────────────────────────────┐
│                                               │
│      Change password.                         │
│     ┌──────────────────────────────┐          │
│     │  old pass  [            ]     │          │
│     │  New Pass  [            ]     │          │
│     │  Confirm   [            ]     │          │
│     │  password                    │          │
│     │   [Cancel]  [Changepass]     │          │
│     └──────────────────────────────┘          │
│                                               │
└─────────────────────────────────────────────┘
```

With Hostel Booking:-

Hostel Management System

Room related Info

Room no [Select room ▼]
States [   ]
Fee p/m [   ]
Food   ○ without ○ without food (2000 per month)
Stay from [   ]
Duration [   ]
Total Amount [   ]

Personal info:
Course [   ]
regno [   ]
Name [   ]

Address:-

[Cancel]   [Register]

Points:

1) There is no requirement of Course Code on Hostel management System

2) User change password & user Recovery Password are both Same

3) Webpage like Attendance on hostel Kan be Created.

4) Admin Edit Course is not requirement for Hostel Management System.

5) You Can add the payment option on Hostel Management System ⑥ You Can Create a webpage of that.

Review - 2:-

Step-1:- Admin login is ok.

Step-2:- Admine dashboard missing Profile details.

Step-3:- Admine proflile missing Email password/

Step-4:- Admin Add course missing Enrollment name.

Step-5:- Admin Edit course missing "Enrollment" or No need.

Step-6:- Admin ~~Addroom missing Customer details.~~

This Website Will Add the Attendance in hostel for Customer.

You have to Add the payment option in hostel management System.