

University of Central Punjab



Project Document(Final Version)

Course Title: Web Application Development

Course Code: SEST2613

Section: Q4

Title:

"Hotel Management System"

Group Participants Name

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1. Introduction

The **Hostel Management System** is a web-based application designed to streamline hostel operations, providing a seamless experience for both administrators and students. Built using **Node.js, Express, Mongoose, and JWT authentication**, this system ensures secure access control and efficient management of hostel resources. The platform allows admins to manage rooms, mess services, and user registrations, while students can book rooms, submit feedback, and request mess services.

Features

Admin Features

- ✓ Admin can **log in** and **sign up** securely.
- ✓ Admin can **initialize rooms** (set availability, type, and pricing).
- ✓ Admin can **add, update, and delete room details**.
- ✓ Admin can **add and modify the mess menu**.
- ✓ Admin can **view and manage registered users**.
- ✓ Admin can **delete any registered user** if necessary.
- ✓ Admin can **view feedback** submitted by users.
- ✓ Admin can **log out** (destroy JWT token for security).

User Features

- ✓ Users can **sign up** and **log in** securely.
- ✓ Users can **book rooms** (choose between **2-seater** or **3-seater** rooms).
- ✓ Users can **submit feedback** to the admin.
- ✓ Users can **request for mess services**.
- ✓ Users can **log out** (destroy JWT token for security).

Below are screen shots:

Hostel Management


Logout

Self Contained Rooms

AC & Non AC rooms

House Keeping

Frequently used Service



Room Type: Three-Seater


Room Name: ak

Description: hghn

Price: 22228 Rs

Status: Available

Book Now



Room Type: Two-Seater


Room Name: s

Description: 2

Price: 2 Rs

Status: Available

Book Now



Room Type: Two-Seater

Room Name: 2001A

Description: this is very beautiful

Price: 6000 Rs

Status: Available

Book Now

Address

Wapda Town near UCP Lahore

0324-9489879

ummamughal@gmail.com

Services

Hostel Management

Hotelfacilities Facility

Laundry Services

Mess Services

Book Room

Quick Links

About Us

Contact Us

Our Services

Interect With Us

Please Provide us your email! We are send update for every events

Your email

Send

© HMS, All Rights Reserved

successfully Booked

pretty-print

```
{
  "message": "Mess meal booked successfully",
  "mess": {
    "_id": "67afed0af9c183325d9c7c8",
    "bookingDate": "2025-02-06T00:00:00.000Z",
    "weekDay": "Wednesday",
    "packageType": "Weekly",
    "menu": [
      "a"
    ],
    "price": 232,
    "createdBy": "67afd5f26c721c1b8487d6de",
    "createdAt": "2025-02-15T01:29:43.884Z",
    "updatedAt": "2025-02-15T01:29:43.884Z",
    "_v": 0
  }
}
```

Hostel Management

Logout

Hostel Feedback

Provide Your Feedback

Room Quality

Average

Food Quality

Poor

Cleanliness

Good

Overall Experience

this service is amazing

Submit Feedback

Address

📍

Wapda Town near UCP Lahore

📞

0324-9489879

✉

ummarmughal@gmail.com

🐦

📘

📺

🌐

Services

➤ Hostel Management

➤ Hotel/Facilities Facility

➤ Laundry Services

➤ Mess Services

➤ Book Room

Quick Links

➤ About Us

➤ Contact Us

➤ Our Services

Interact With Us

Please Provide us your email! We are send update for every events

Your email

Send

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Hostel Management

Logout

Admin Dashboard

Manage and oversee hostel operations efficiently from here. Choose a section to get started.

Register New Hostel

Easily register new hostels into the system to manage them.

Register

Add Mess Menu

Offer Mess menu for the customer who enroll in hostel.

Register

Manage Rooms

Add, modify, or remove rooms for hostels in your system.

Manage Rooms

View Feedback

Check feedback from hostel residents and take actions accordingly.

View Feedback

Payment History

Track and manage payments made by hostel residents in real time.

View Payment History

Address

Wapda Town near UCP
Lahore

0324-9489879

ummarmughal@gmail.com

Services

Hostel Management

Hostelfacilities Facility

Laundry Services

Mess Services

Book Room

Quick Links

About Us

Contact Us

Our Services

Interect With Us

Please Provide us your email! We are send update for every events

Your email

Send

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Admin Panel - Add Mess Details

Booking Date

mm/dd/yyyy

Select Day of the Week

Monday

Select Package

Daily

Menu Items (comma-separated)

e.g. Rice, Chicken, Salad

Price (PKR)

Add Mess

Existing Mess Details

Booking Date	Day	Package	Menu	Price	Actions
2/6/2025	Wednesday	Weekly	w	232 PKR	Delete
2/21/2025	Saturday	Weekly	rice	874843 PKR	Delete
2/20/2025	Saturday	Monthly	Baryani	2000 PKR	Delete
2/20/2025	Tuesday	Monthly	DaalRooti	2000 PKR	Delete

Admin Dashboard

Manage Rooms

Registered Users Details

Manage Rooms

Room Name

Price

Description

Room Type

Select Room Type

Add Room

Room ID	Name	Type	Price	Description	Availability	Actions
67afd62a6e72fcb10c07de5d	ak	3 Persons	\$22228	hghn	Available	<div>EditDelete</div>
67afdae986c281a700a897c4	s	2 Persons	\$2	2	Available	<div>EditDelete</div>
67a1f758cd5693543a76f28b	2001A	2 Persons	\$6000	this is very beautiful	Available	<div>EditDelete</div>

✕

Edit Room

Room Name

ak

Price

22228

Description

hghn

Cancel

Update Room

Price

22228

Description

hghn

Cancel

Update Room

Hostel Management

Logout

Admin Dashboard

[Manage Rooms](#) [Registered Users Details](#)

Registered Users Details

Room Name	Price	Name	Actions
ak	\$22228	ummar	Delete
s	\$2	ummar	Delete

Address

Wapda Town near UCP Lahore
0324-9489879
ummarmughal@gmail.com



Services

[Hostel Management](#)
[Hotelfacilities Facility](#)
[Laundry Services](#)
[Mess Services](#)
[Book Room](#)

Quick Links

[About Us](#)
[Contact Us](#)
[Our Services](#)

Interect With Us

Please Provide us your email! We are send update for every events

Your email

Recent Feedbacks

Below are the latest feedbacks from hostel residents.

CID:67afd58db5151d46609381a0

Comment:jl

Room ID: 67af062a9e726b10c07de5d

Comment Date: Sat Feb 15 2025 04:49:34 GMT+0500 (Pakistan Standard Time)

CID:67afd58db5151d46609381a0

Comment:this service is amazing

Room ID: 67af062a9e726b10c07de5d

Comment Date: Sat Feb 15 2025 07:12:22 GMT+0500 (Pakistan Standard Time)

Register a New Hostel

Hostel Name

s

Hostel Address

as

Contact Number

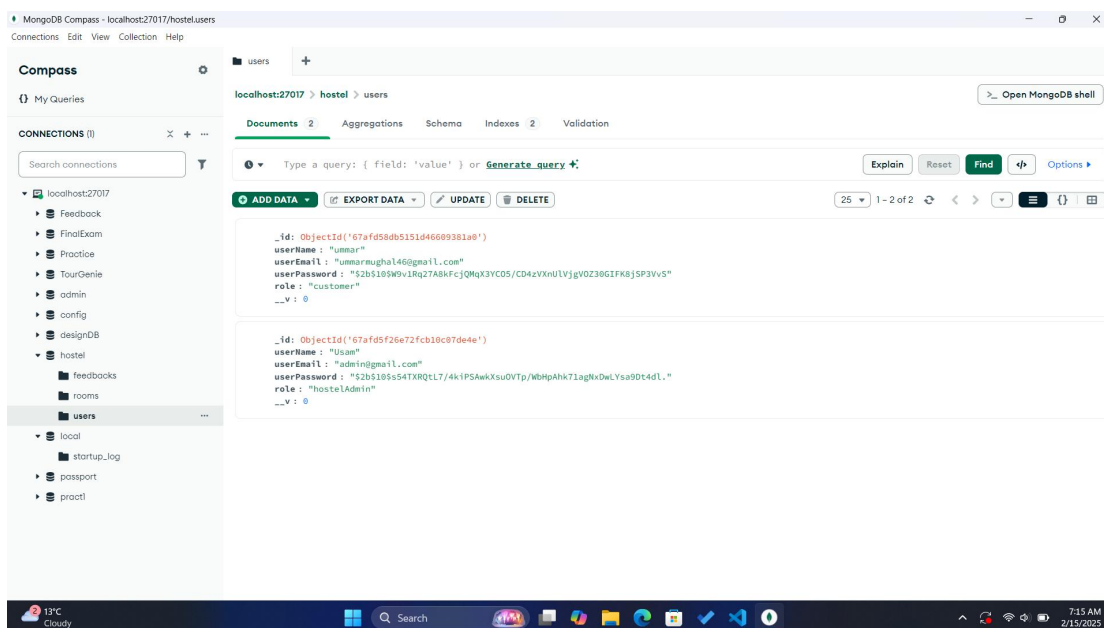
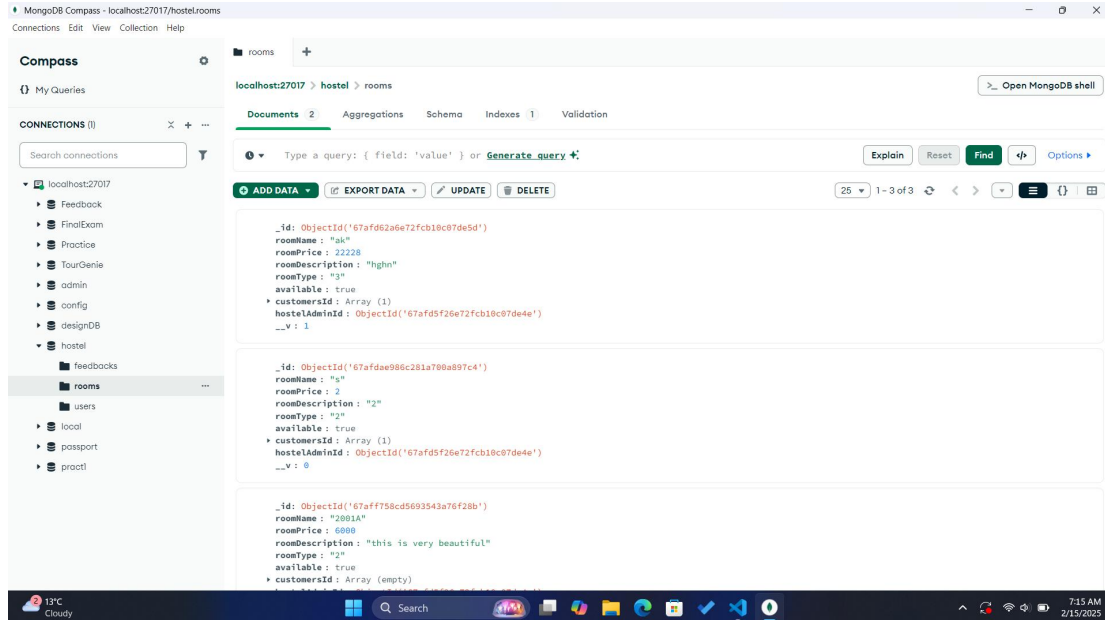
a

Hostel Capacity

3

Register Hostel

Some Database Screenshot



MongoDB Compass - localhost:27017/hostel/feedbacks

Connections Edit View Collection Help

Compass

My Queries

CONNECTIONS (1)

Search connections

localhost:27017

- Feedback
- FinalExam
- Practice
- TourGenie
- admin
- config
- designDB
- hostel
 - feedbacks
 - rooms
 - users
- local
- passport
- proactl

feedbacks

localhost:27017 > hostel > feedbacks

Documents Aggregations Schema Indexes Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

25 1 - 2 of 2

```
_id: ObjectId('67af6526e72fcb18c87de6f')
roomQuality: "Good"
foodQuality: "Good"
cleanliness: "Average"
overallExperience: "ji"
customerId: ObjectId('67afd58db5151d46689381a0')
hostelAdminId: ObjectId('67afd5f26e72fcb18c87de4e')
roomId: ObjectId('67afd62a6e72fcb18c87de5d')
createdAt: 2025-02-14T23:48:34.915+00:00
__v: 0
```

```
_id: ObjectId('67aff886cd5693543a76f2a9')
roomQuality: "Average"
foodQuality: "Poor"
cleanliness: "Good"
overallExperience: "this service is amazing"
customerId: ObjectId('67afd58db5151d46689381a0')
hostelAdminId: ObjectId('67afd5f26e72fcb18c87de4e')
roomId: ObjectId('67afd62a6e72fcb18c87de5d')
createdAt: 2025-02-15T02:12:22.585+00:00
__v: 0
```

13°C Cloudy

Search

7:15 AM 2/15/2025