

DBMS Mini-Project

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2020A7PS1890H

Streaming Platform Password Sharing Web Application

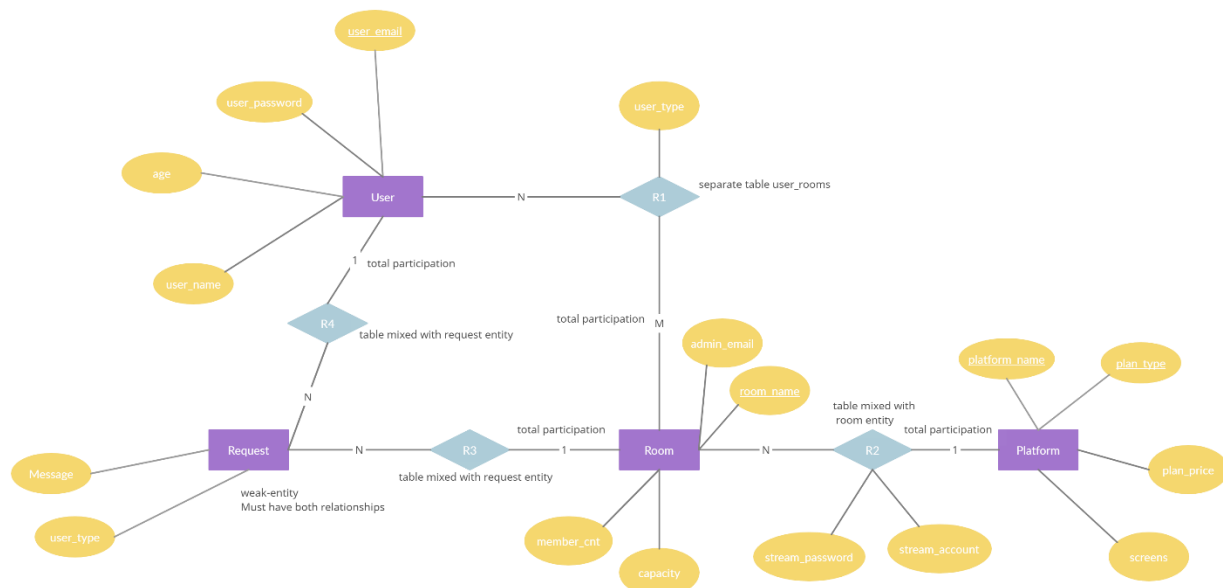
Project Title: OTT Share App

Github link: <https://github.com/rohitkotha10/StreamShare-DBMS.git>

Description: This project is a web-based application. The technologies used will be MySQL connected with nodejs server with expressjs in the backend. Frontend will be developed with HTML, CSS or a framework such as reactjs.

OTT Share is an app built for users for sharing their streaming credentials with friends and family. Sharing Rooms will be created by the admin and the Room will contain the Streaming Credentials Shared only with authorized users of the group. Members in the group may either be paying members or nonpaying members. Each Room will have a unique RoomID, an admin, and the platform for sharing (ex: Netflix, Hotstar, etc.). Note that each room will be associated with only one account. The plan amount will be split equally among all the paying members of the Room. The Room also contains other basic details such as plan duration, payment due date, number of members, number of screens at a time and so on. The dashboard will be mostly similar for both user and admin with a few added functionalities for admin to manage the users. Many platforms have an option of having multiple profiles, but it is only limited. This app has no limit for number of members and hence more ways to split the money or more members to share the OTT experience.

ER Diagram



Relational Schemas:

The Tables created are:

(Note: User Type means whether a paying or non paying member)

1. User(user_email, user_password, age, user_name)
2. Platform(platform_name, plan_type, plan_price, screens)
3. Room(room_name, admin_email, capacity, member_cnt, platform_name, plan_type, stream_account, stream_password)
admin_email, platform_name, and plan_type are foreign keys
4. Requests(user_email, room_name, message, user_type)
user_email and room_name are foreign keys
5. User_Rooms(user_email, room_name)
both foreign keys

Technologies used:

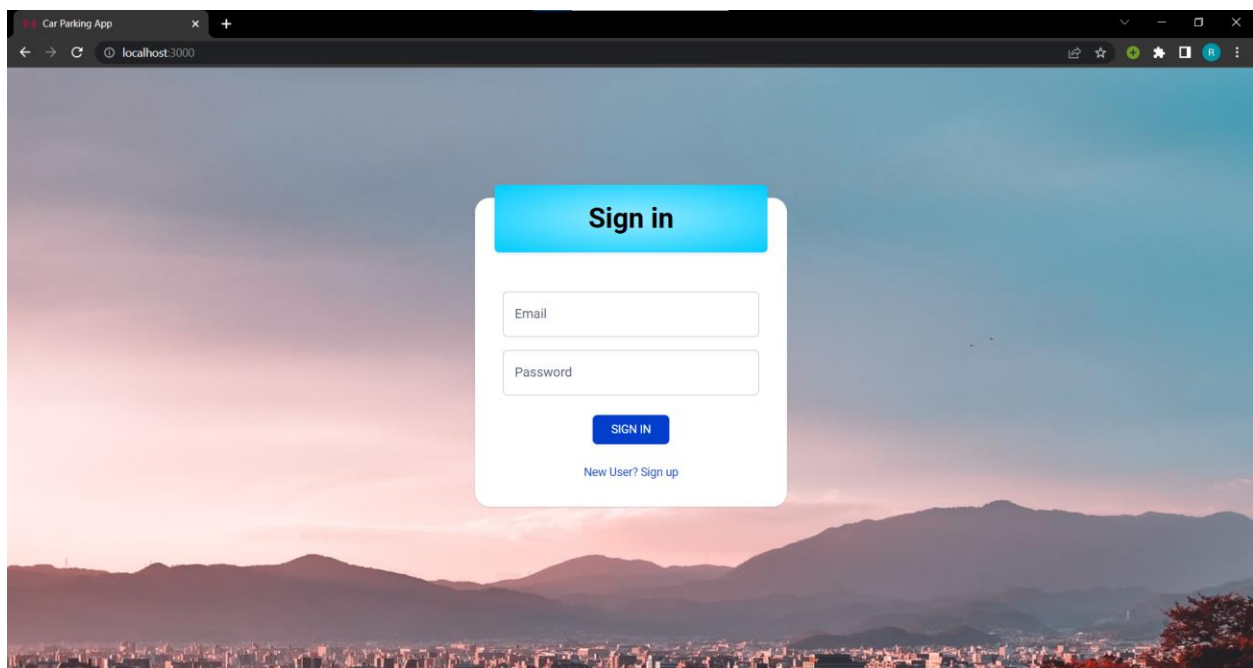
The Backend uses express and mysql, frontend was done using react and material ui. The SQL Queries were executed by connecting the backend nodejs express with mysql. The post and get requests were created accordingly to perform CRUD operations from frontend.

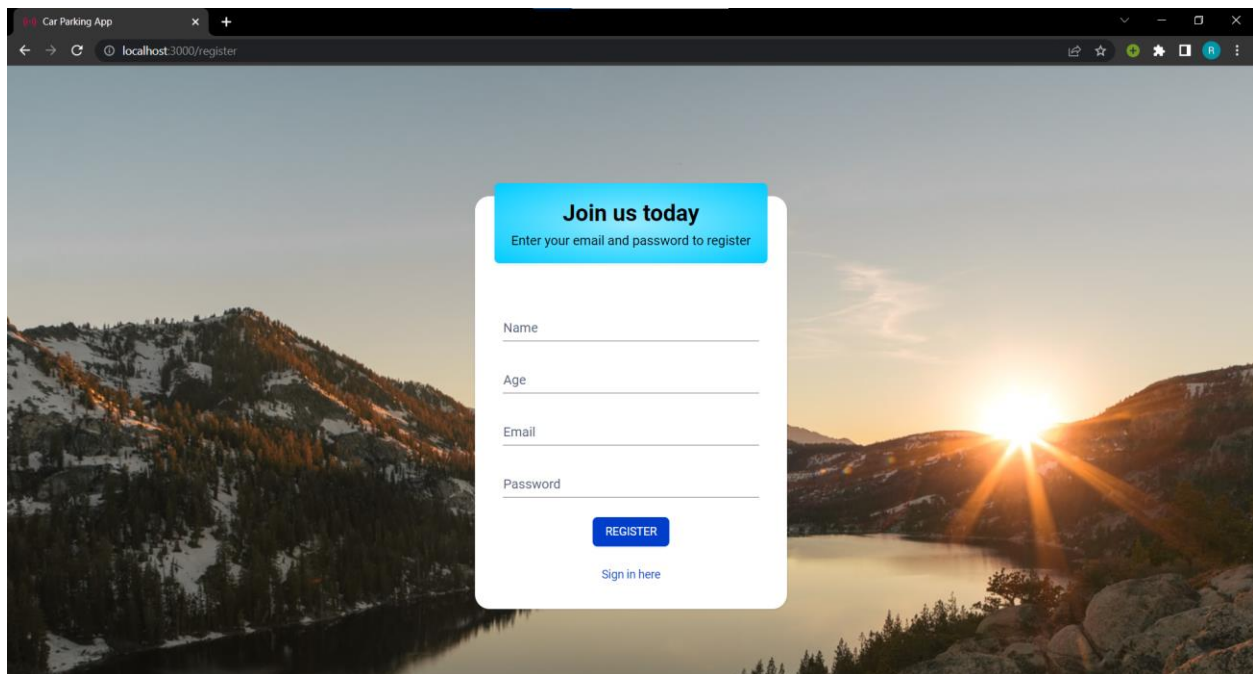
Build Instructions can be found in the read me file which can be found in the project directory. You will need to install nodejs, mysql and create the tables in mysql before starting the webapp

Routing and Page Structure:

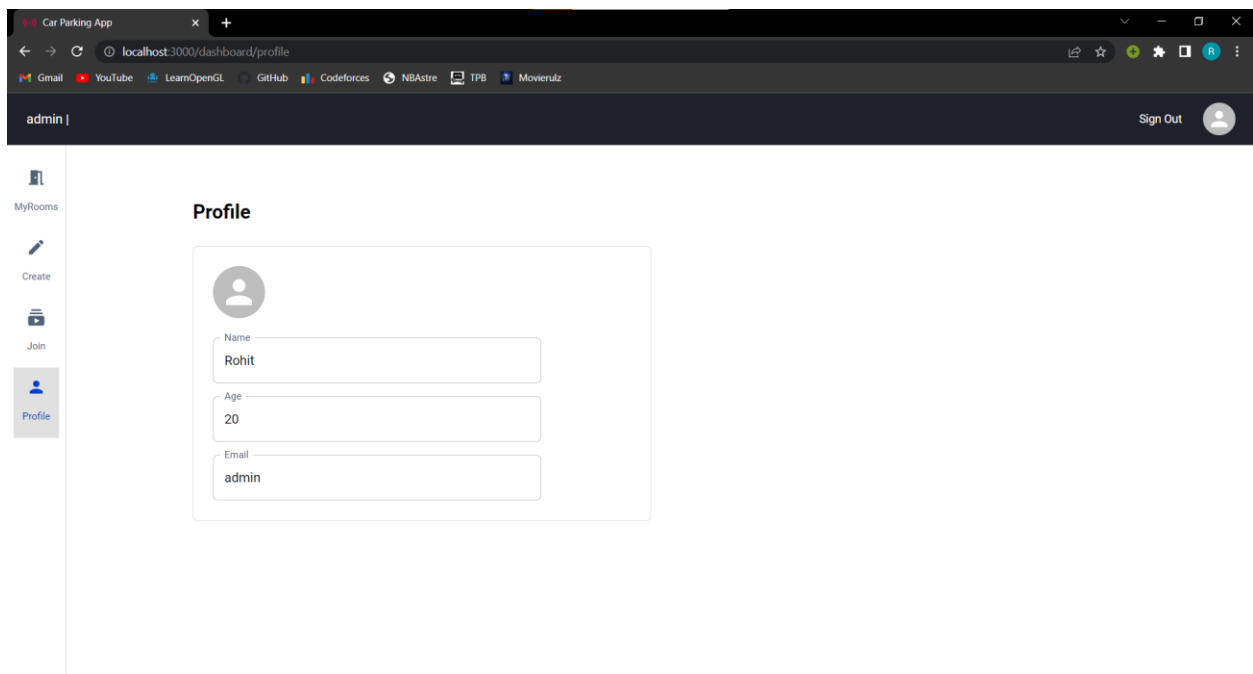
Each page is associated with a separate link. These links are created with the help of react-router-dom v6 and the routes and the components in each of the routes are mentioned in routes.js.

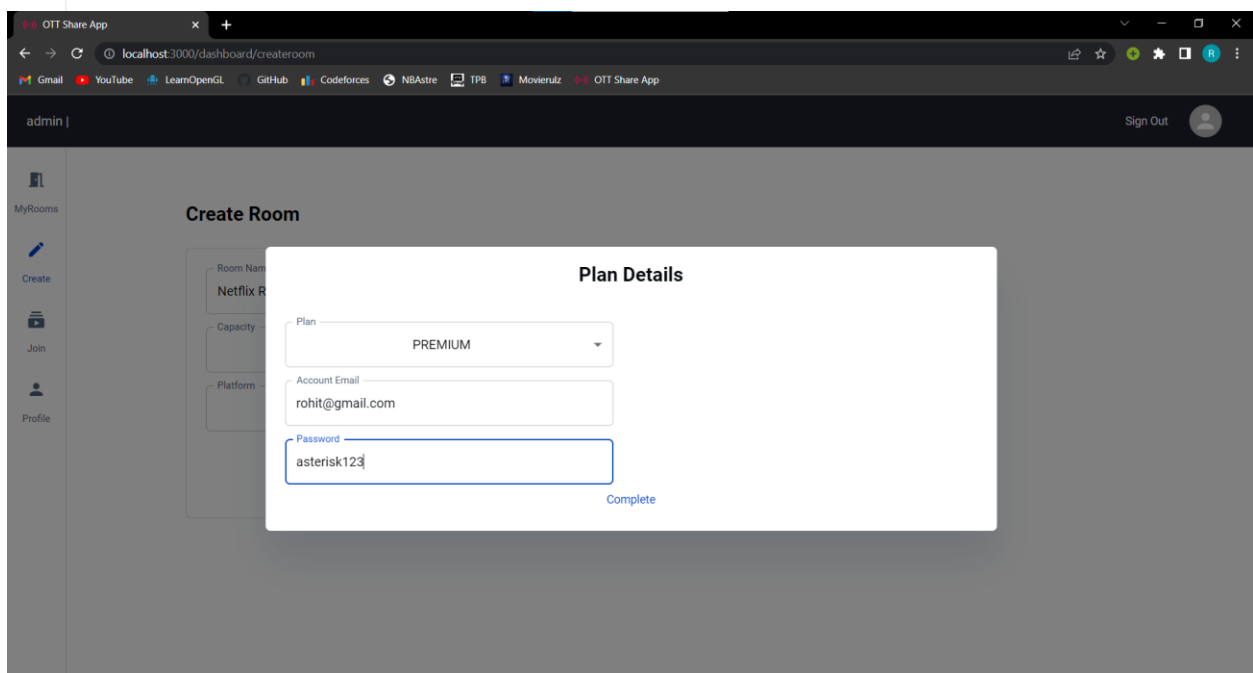
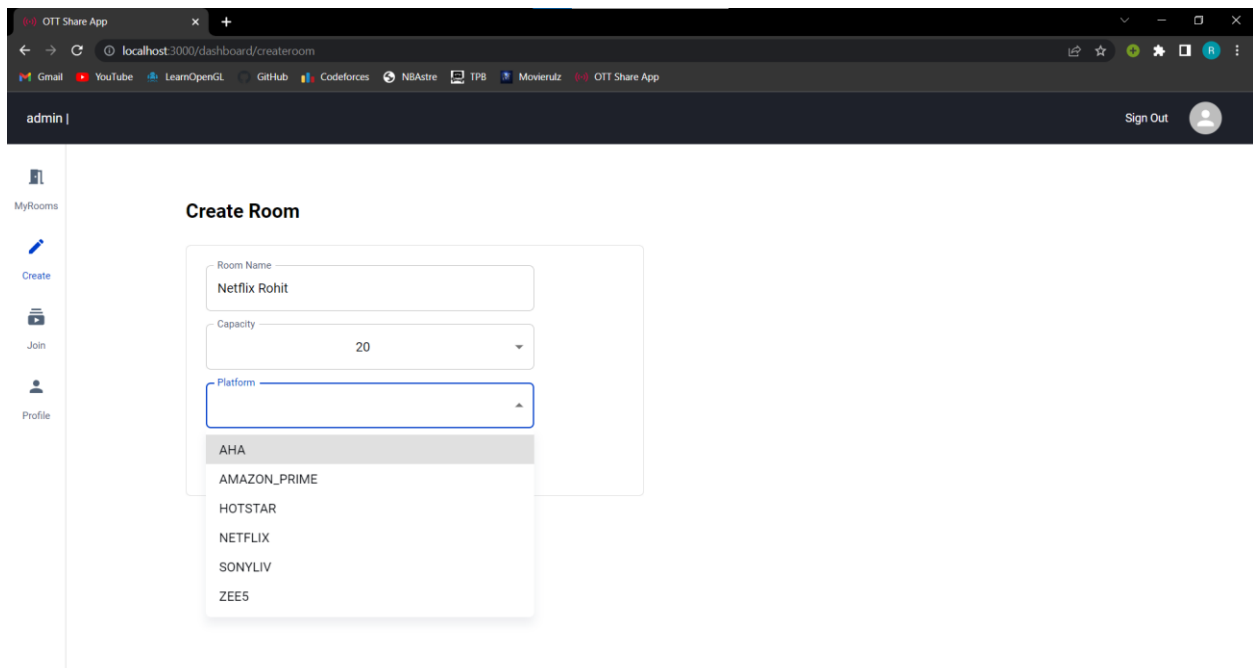
Login and Registration Pages:

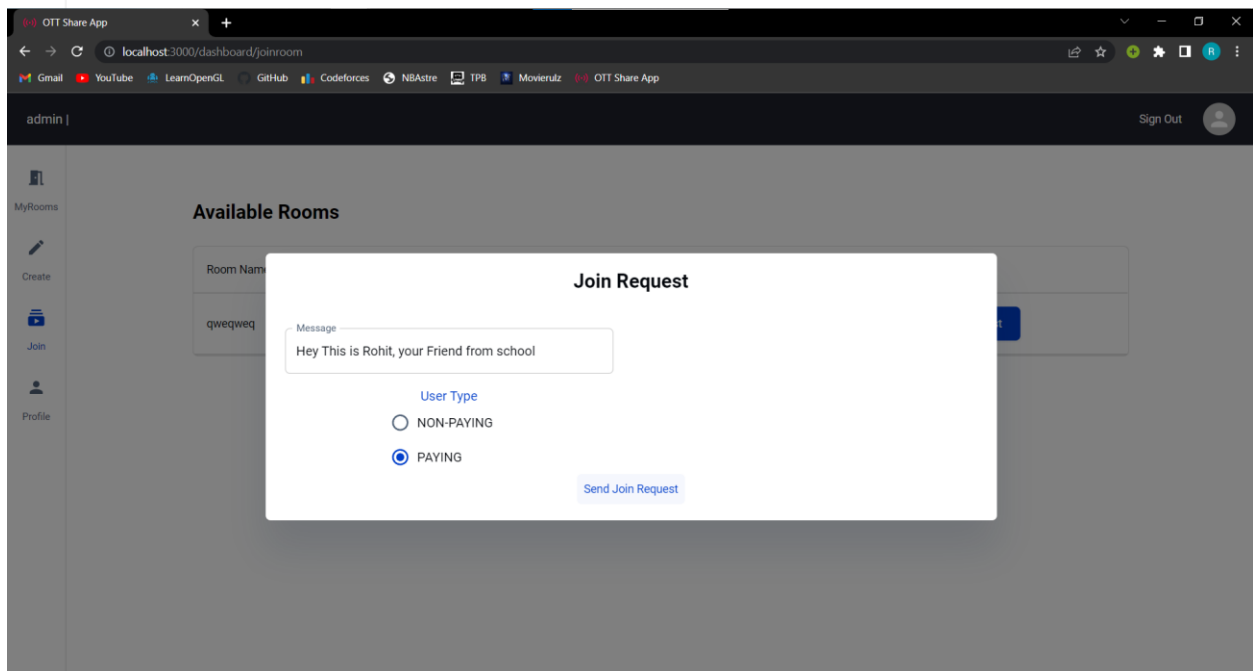
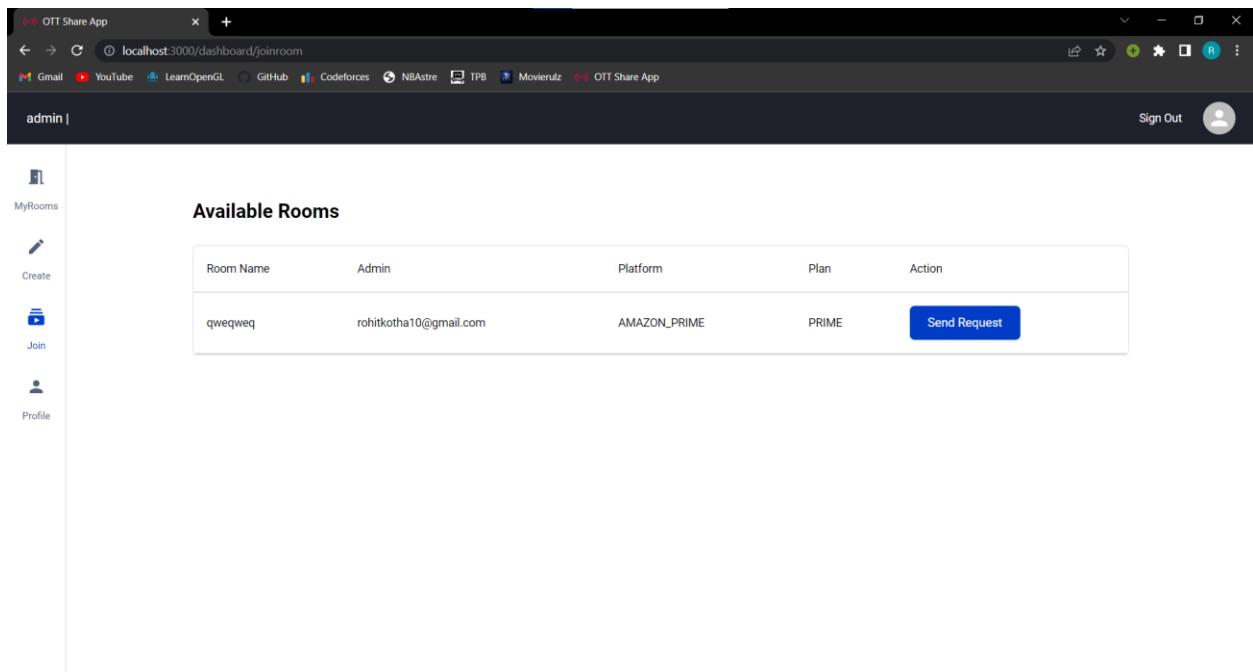




Dashboard and its components:







OTT Share App

localhost:3000/dashboard

Gmail

YouTube

LearnOpenGL

GitHub

Codeforces

NBAstre

TPB

Movienut

OTT Share App

admin | Sign Out

MyRooms

Create

Join

Profile

As Admin

Room Name	Admin	Platform	Plan	Account	Password	Action
a	admin	AMAZON_PRIME	PRIME	dad	wrwe	Manage Room
aa	admin	AHA	TELUGU	a	a	Manage Room
aad	admin	HOTSTAR	SUPER	afa	faf	Manage Room
adada	admin	AMAZON_PRIME	PRIME	qeeq	11	Manage Room
awr	admin	NETFLIX	PREMIUM	fafa	wewe	Manage Room
Netflix Rohit	admin	NETFLIX	PREMIUM	rohit@gmail.com	asterisk123	Manage Room

As User

Room Name	Admin	Platform	Plan	Account	Password	Action
qweqweq	rohitkotha10@gmail.com	AMAZON_PRIME	PRIME	adad	ad	View Room

View Room as User:

OTT Share App

localhost:3000/dashboard

Gmail

YouTube

LearnOpenGL

GitHub

Codeforces

NBAstre

TPB

Movienut

OTT Share App

Room: qweqweq

View Payment Details

Leave Room

User Email	Name	Age	User Type
admin	Rohit	20	NON-PAYING
rohitkotha10@gmail.com	Reddy	23	PAYING

View Room as Admin:

OTT Share App

localhost:3000/dashboard

Gmail

YouTube

LearnOpenGL

GitHub

Codeforces

NBAstre

TPB

Movienut

OTT Share App

Room: a

View Payment Details

Requests

Delete Room

User Email	Name	Age	User Type	Action
admin	Rohit	20	PAYING	Remove User

Requests:

The screenshot shows the OTT Share App dashboard for Room: C2. A modal titled "Requests" is displayed in the center. The modal contains a table with the following data:

User Email	Message	User Type	Action
A	Hello, This is your friend from college!	PAYING	Accept Reject

The background dashboard includes buttons for "View Payment Details", "View Requests", and "Delete Room". The table below the modal has columns: User Email, Name, Age, User Type, and Action.

Payment Info:

The screenshot shows the OTT Share App dashboard for Room: C1. A modal titled "Payment Details" is displayed in the center. The modal contains the following information:

Plan Price: 75 Rupees
Number of Paying Members: 2
Cost per month for each paying member is 37.5 Rupees

The background dashboard includes buttons for "View Payment Details", "View Requests", and "Delete Room". The table below the modal has columns: User Email, Name, Age, User Type, and Action.