

# Capstone Project:- Travel Management System

Submitted By:-Harsh Gade

Mentored By-Subbu

# AGENDA:-

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# INTRODUCTION:-

## **Travel Management System**

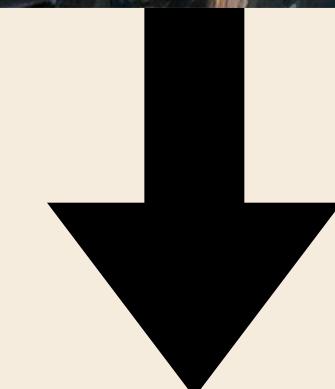
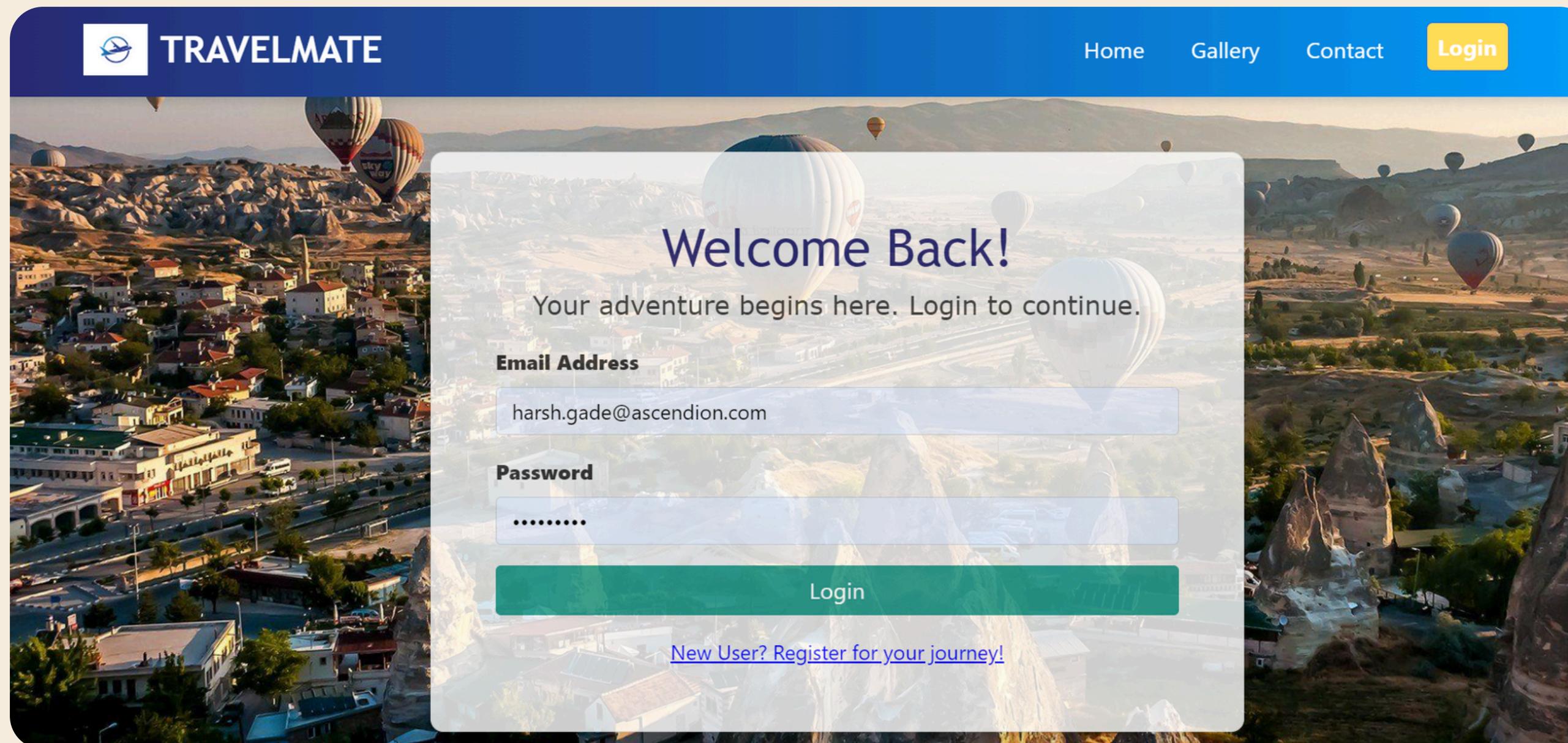
- The Travel Management System is a full-stack application developed using Spring Boot, Angular, and MySQL. It allows administrators to efficiently manage trips, cabs, bookings, payments, and feedback with secure login, CRUD operations, search functionality, and admin registration.

# Tools used:-

- **Backend:** Spring Boot
  - **Frontend:** Angular
  - **Database:** MySQL
  - **API Testing:** Postman
  - **Version Control:** Git & GitHub
  - **IDE:** IntelliJ IDEA / Visual Studio Code
  - **Build Tool:** Maven
  - **Design:** Bootstrap
- <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFlvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jlW3" crossorigin="anonymous">
  - <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css" rel="stylesheet">

# Architecture of project:-

## Login Page:-



# Dashboard:-

The dashboard consists of four main sections arranged in a 2x2 grid, connected by double-headed arrows indicating bidirectional communication or integration:

- Top Left Section:** Trip Records
- Top Right Section:** Cab Records
- Bottom Left Section:** Booking Records
- Bottom Right Section:** Feedback

**Left Column (Trip and Cab Management):**

- Trip Records:** Shows a search bar and three travel-related images: a hot air balloon over fields, a wooden pier at night, and a traditional Balinese temple.
- Cab Records:** Shows a search bar and a table of cab details:

Cab Id	Model	License Plate	Capacity	Price per Day	Action
C0001	MARUTI	1234	3	500	<button>Edit</button> <button>Delete</button>
C0002	MERCEDES	5678	233	567	<button>Edit</button> <button>Delete</button>
C0003	AUDI	666	34	123	<button>Edit</button> <button>Delete</button>

**Right Column (Booking and Feedback):**

- Booking Manager:** Shows a search bar and a table of booking records:

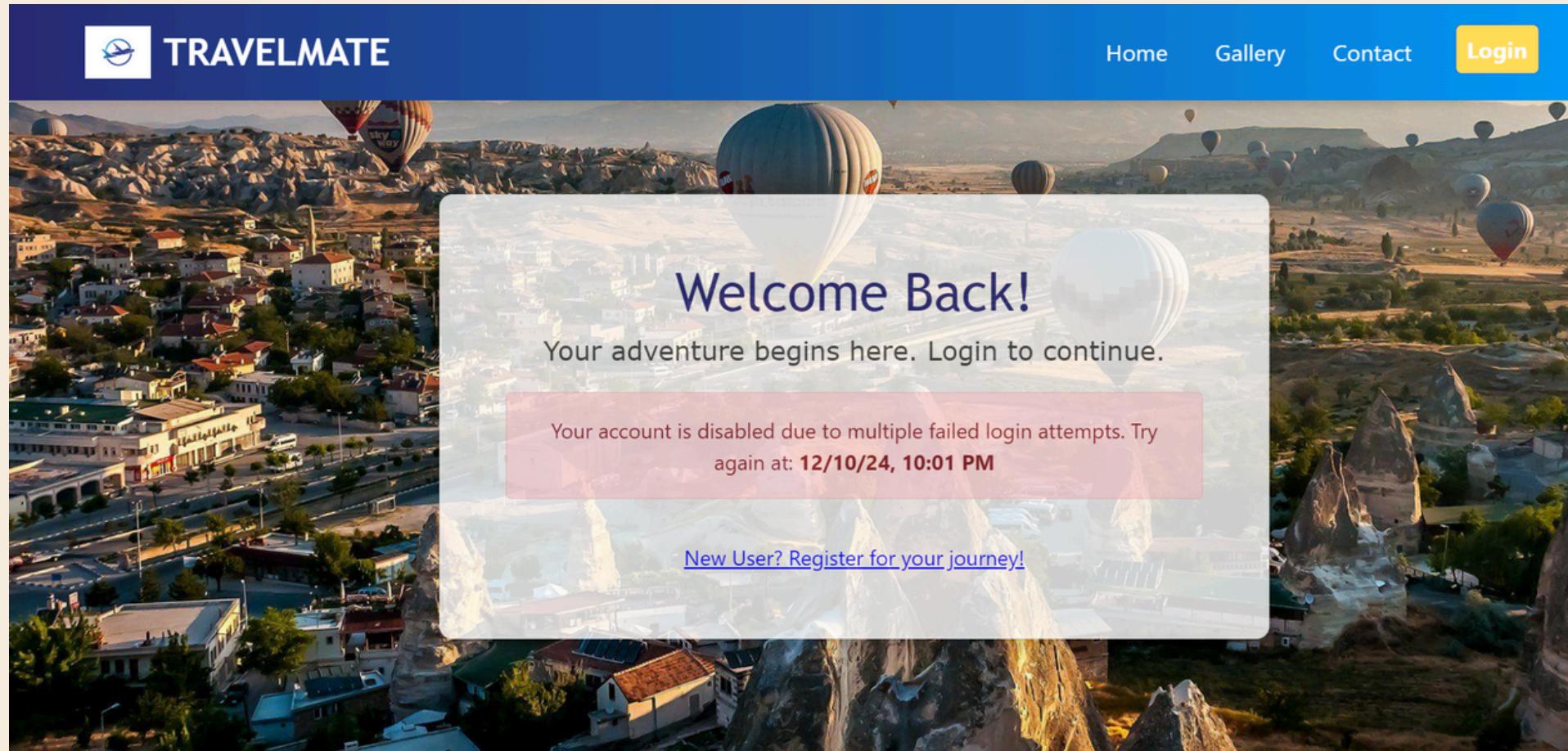
Booking Id	Customer Name	Trip Name	Booking Date	Cab Model	Price	Action
B0001	SCOFIELD	none	2024-12-10	MARUTI	5	<button>Edit</button> <button>Delete</button>
B0002	gal gadot	BALI	2024-12-11	none	789	<button>Edit</button> <button>Delete</button>
B0003	harsh	BALI	2024-12-24	land rover	889	<button>Edit</button> <button>Delete</button>

- Feedback:** Shows a message "We value your feedback!" and a table of feedback entries:

Feedback Id	Name	Email	Message	Action
1	John Doe	john.doe@example.com	Great service, and	<button>Edit</button> <button>Delete</button>
3	Michael Johnson	michael.johnson@example.com	Excellent experience, highly recommend!	<button>Edit</button> <button>Delete</button>

# KEY HIGHLIGHTS:-

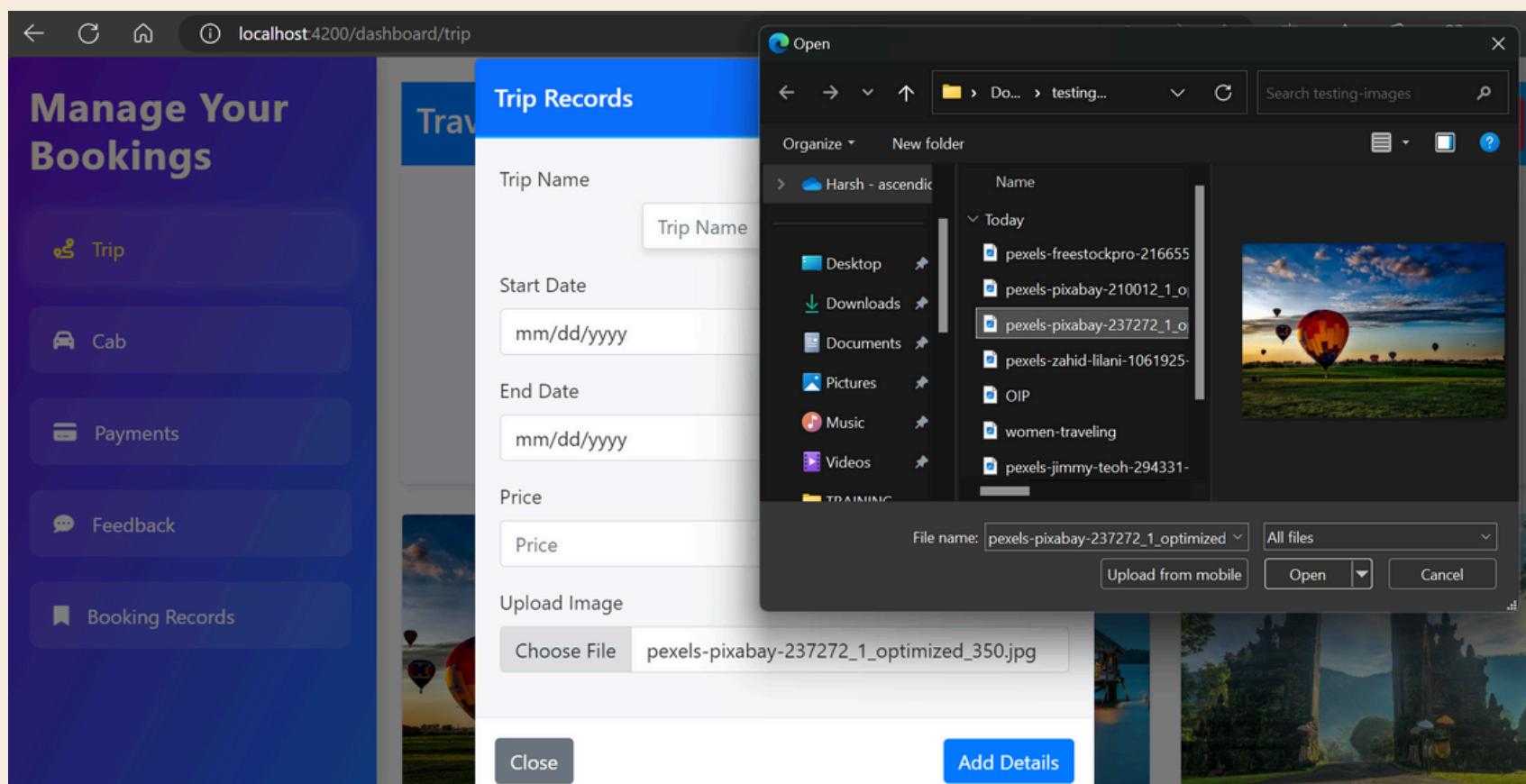
The account gets disabled for 30 minutes on three invalid login attempts



**Disabled account**

# KEY HIGHLIGHTS:-

## Uploading Image and Showing into the trip records:-

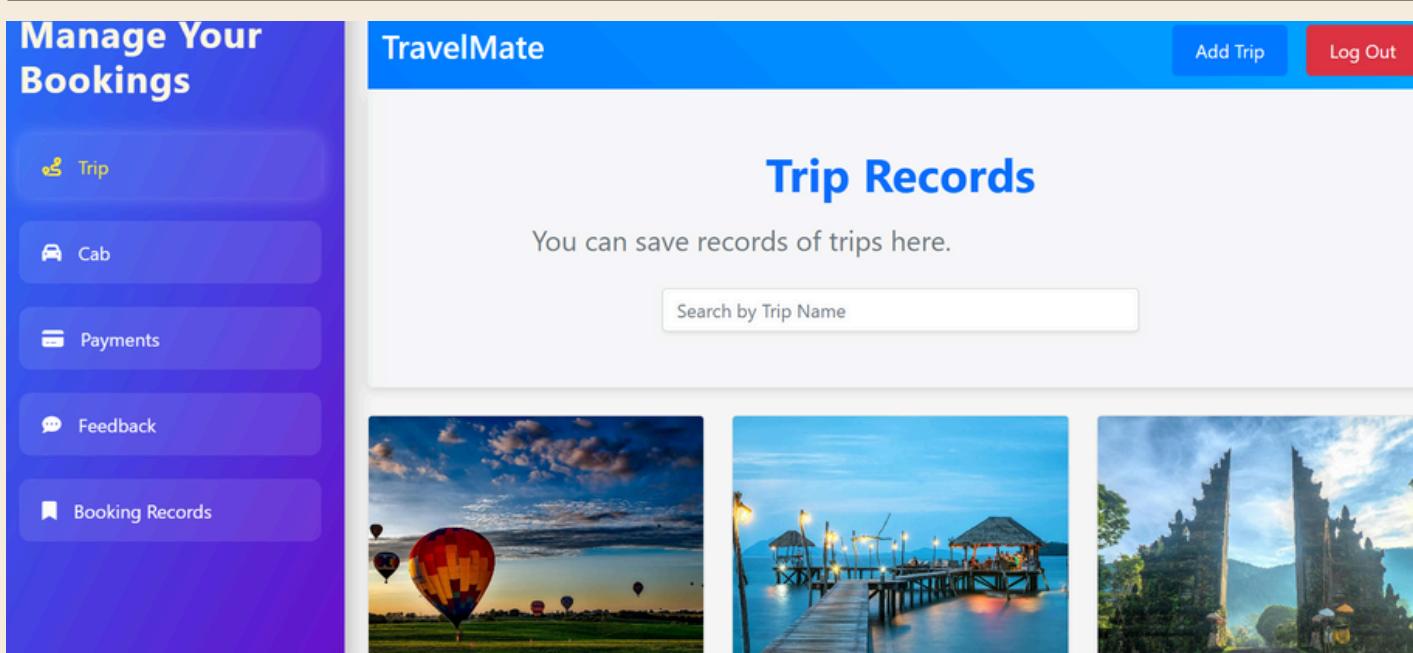


```
iv class="row row-cols-1 row-cols-md-2 row-cols-lg-3 g-4">
  <div *ngFor="let data of filteredTripData" class="col animate__animated animate__fadeIn">
    <div class="card shadow-sm h-100">
      <img [src]="'assets/images/' + data.image" class="card-img-top" alt="Trip Image" style="height: 250px;"/>
      <div class="card-body">
        <h5 class="card-title text-primary">{{ data.name }}</h5>
        <p class="card-text"><strong>Trip Id:</strong> {{ data.id }}</p>
        <p class="card-text"><strong>Start Date:</strong> {{ data.startDate }}</p>
        <p class="card-text"><strong>End Date:</strong> {{ data.endDate }}</p>
        <p class="card-text"><strong>Price:</strong> ${{ data.price }}</p>
        <div class="d-flex justify-content-between">
          <button (click)="onEditTrip(data)" class="btn btn-info text-white shadow-sm" type="button">
            <i class="bi bi-pencil"></i> Edit
          </button>
        </div>
      </div>
    </div>
  </div>
</div>
```

```
1  export class TripData {
2    id: string = '';
3    name: string = '';
4    startDate: string = '';
5    endDate: string = '';
6    price: number = 0;
7    image: string = '';
8  }
9
```

# KEY HIGHLIGHTS:-

**Creating Children components for making Dashboard:-**



**DASH COMPONENT HTML FILE:-**

```
<!-- Main Content -->
<div class="content">
  <router-outlet></router-outlet>
</div>
</div>
```

**DASH COMPONENT TS FILE:-**

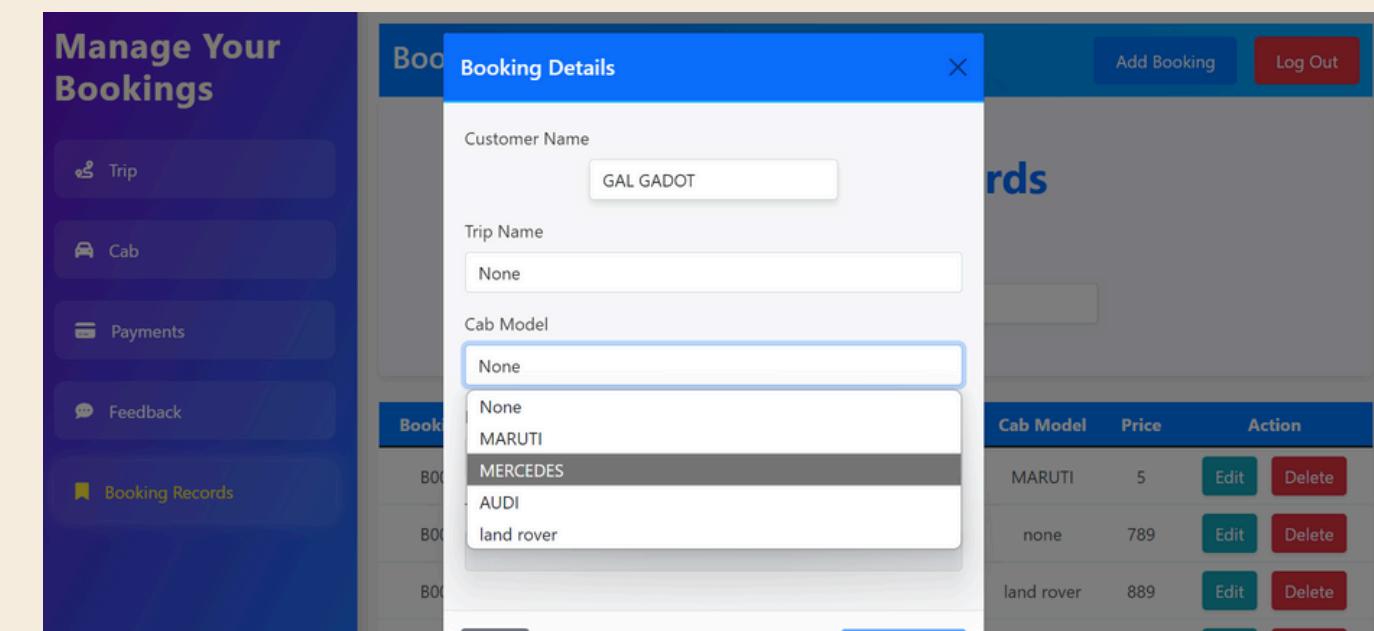
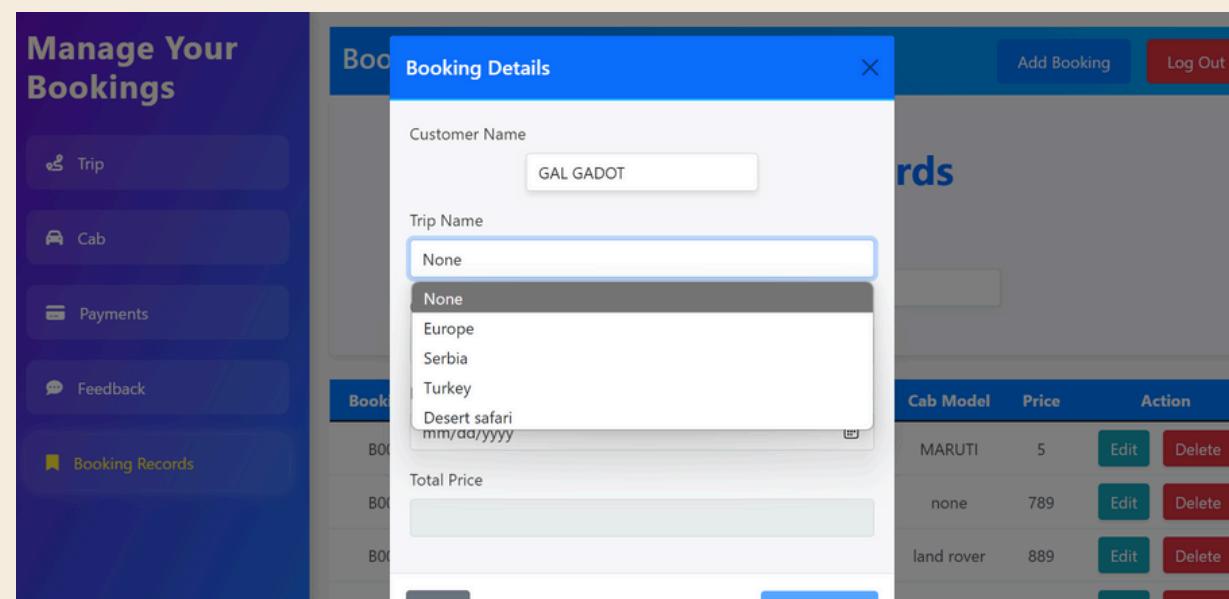
```
navigateTo(option: string): void {
  this.selectedMenu = option;
  this.router.navigate(['/dashboard/${option}'])
}
```

**ROUTING FILE:-**

```
{
  path: 'dashboard',
  component: BookingComponent,
  children: [
    { path: 'trip', component: TripComponent },
    { path: 'cab', component: CabComponent },
    { path: 'payments', component: PaymentsComponent },
    { path: 'feedback', component: FeedbackComponent },
    { path: 'bookingcombined', component: BookingCombinedComponent }
  ],
},
```

# KEY HIGHLIGHTS:-

Connected two tables through api logic and showing entries of all available trips in trip name and cabs in cab table from trip and cab table in booking records:-



booking records service file:-

```
getAvailableTrips(): Observable<any[]> {
  return this.http.get<any[]>('http://localhost:8080/api/v1/trips');
}

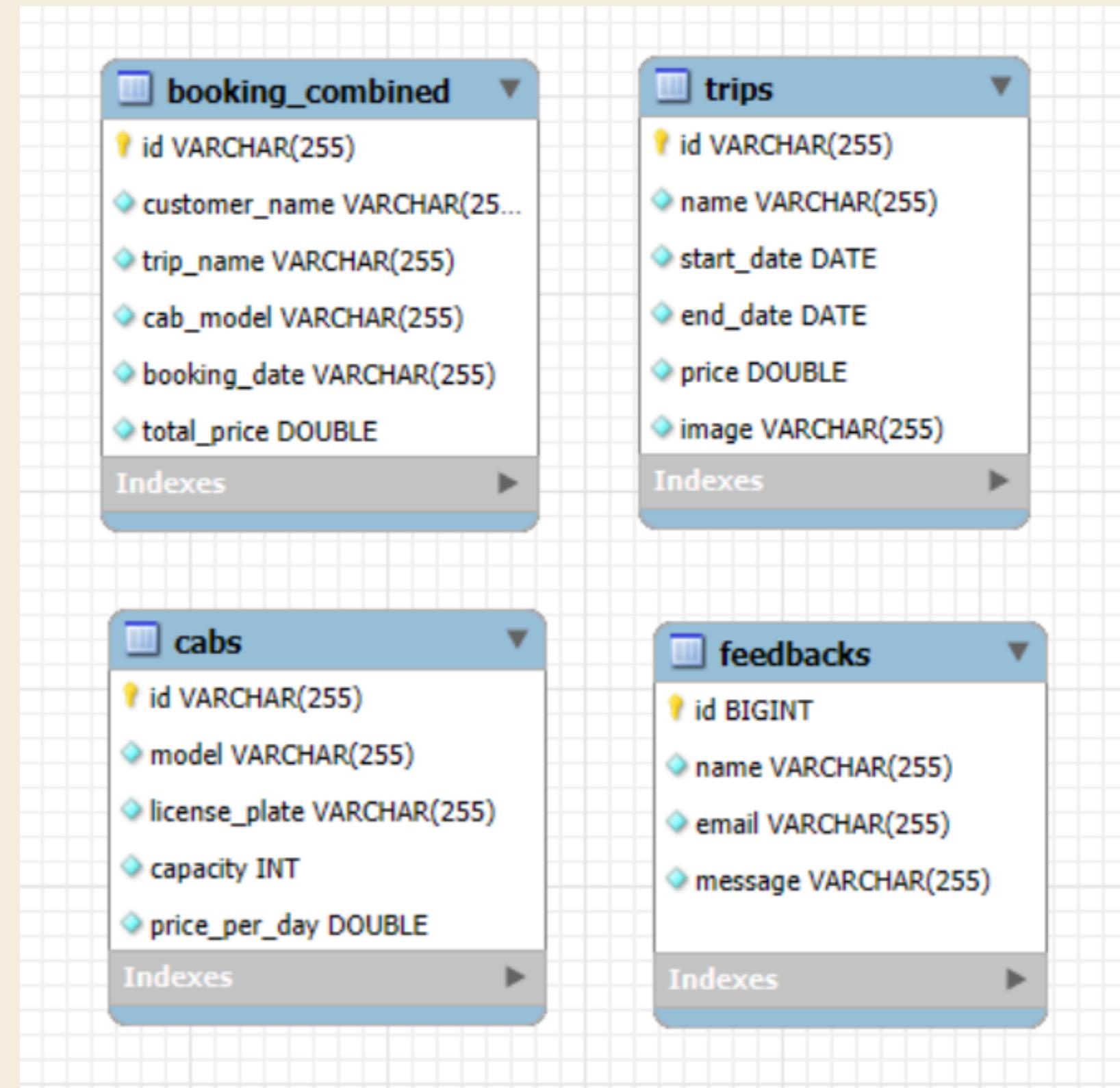
getAvailableCabs(): Observable<any[]> {
  return this.http.get<any[]>('http://localhost:8080/api/v1/cabs');
}
```

ts file:-

```
getAvailableTrips() {
  this.api.getAvailableTrips().subscribe(res => {
    this.availableTrips = res;
  });
}

getAvailableCabs() {
  this.api.getAvailableCabs().subscribe(res => {
    this.availableCabs = res;
  });
}
```

# ER Diagram:-



# Challenges Faced:-

- **Component Creation:**Developing and integrating child components.
- **Backend Connection:**Connecting Spring Boot APIs with Angular.
- **SQL Table Management:**Creating tables and managing relationships without foreign keys.
- **CSS Design:**Designing a responsive and consistent UI.
- **Account Timer:**Implementing account-disable timer logic.
- **Error Handling:**Debugging and fixing API issues.

# CONCLUSION AND FEEDBACK:-

## Mentors Support:-

- My mentor was very approachable and always willing to help.
- He provided clear explanations and examples when we struggled with concepts.

## Learnings:-

- Enhanced skills in Angular, Spring Boot, SQL, and full-stack development.
- Gained practical knowledge of backend integration, relational databases, and advanced front-end design techniques.

## Team Collaborations:-

- Demonstrated teamwork, task management, and effective communication.

## Areas for Improvement:-

- Explore third-party libraries for enhanced UI components.
- Opportunities for adding new features, enhancing security, and improving system performance.

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# Thank You!