

Simplilearn

Capstone Project : My Movie Plan

NMS Cinemas is a chain of single screen theatres that screen movie shows of different genres and languages at very genuine prices. It was established in 2004 in Pune, India. Recently, the business analysts noticed a decline in sales since 2010. They found out that the online booking of movie tickets from apps, such as BookMyShow and Paytm were gaining more profit by eliminating middlemen from the equation. As a result, the team decided to hire a Full Stack developer to develop an online movie ticket booking web application with a rich and user-friendly interface. You are hired as the Full Stack Java developer and are asked to develop the web application. The management team has provided you with the requirements and their business model so that you can easily arrange different components of the application.

About us:

```
<div class="about-us-container">
  <div class="about-us-wrapper position-relative">
    <div class="about-us-banner">
      <div class="about-us-banner-text h-100">
        <h1 class="fs-1">
          {{ title }}
        </h1>
        <h2 class="fs-2 text-uppercase">WE provide entertainment</h2>
      </div>
    </div>
  </div>

  <div class="description mt-4">
    <div class="mx-4">
      <h1 class="fs-2">About Us</h1>
      <div class="underline text-warning"></div>
    </div>
    <p class="text-muted text-start px-3 p-lg-4 p-md-3">
      22 years ago in South Africa a seed of an idea was planted, a dream was
      shared. Inception happened. 22 years on, we look back at what we've built.
      Leave it up to us, and we'd love to do it all over again. Here's our story
    </p>
  </div>

  <div class="testimonials p-lg-5 bg-dark text-white p-md-3 mt-4">
    <h1 class="fs-2 pb-5 text-center">Our Happy Customer</h1>
    <div class="testimonials-list row g-0">
```

```
<div class="testimonial-card col-4 px-4 my-4">
  <div class="testimonial text-center">
    <div class="image mb-2 col-3 mx-auto">
      
    </div>
    <div class="comments">
      <h3 class="fs-3 user">User</h3>
      <div class="text-muted text-start">
        22 years ago in South Africa a seed of an idea was planted, a
        dream was shared. Inception happened. 22 years on, we look back at
        what we've built. Leave it up to us, and we'd love to do it all
        over again. Here's our story
      </div>
    </div>
  </div>
</div>
```

```
<div class="testimonial-card col-4 px-4 my-4">
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    <div class="image mb-2 col-3 mx-auto">
      
    </div>
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        dream was shared. Inception happened. 22 years on, we look back at
        what we've built. Leave it up to us, and we'd love to do it all
        over again. Here's our story
      </div>
    </div>
  </div>
</div>
<div class="testimonial-card col-4 px-4 my-4">
```

```

<div class="testimonial text-center">
  <div class="image mb-2 col-3 mx-auto">
    
  </div>
  <div class="comments">
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    <div class="text-muted text-start px-3">
      22 years ago in South Africa a seed of an idea was planted, a
      dream was shared. Inception happened. 22 years on, we look back at
      what we've built. Leave it up to us, and we'd love to do it all
      over again. Here's our story
    </div>
  </div>
</div>
</div>
</div>
</div>
</div>

<div class="branches mt-4 py-5">
  <div class="mx-4">
    <h1 class="fs-2">Our Branches</h1>
    <div class="underline"></div>
  </div>
  <div class="row g-0 justify-content-around align-content-center">
    <mat-card class="col-3 mx-3 my-3 bg-warning" color="accent">
      >Branch 1</mat-card>
    >
    <mat-card class="col-3 mx-3 my-3 bg-warning" color="accent">
      >Branch 2</mat-card>
    >
    <mat-card class="col-3 mx-3 my-3 bg-warning" color="accent">
      >Branch 3</mat-card>
    >
    <mat-card class="col-3 mx-3 my-3 bg-warning" color="accent">
      >Branch 1</mat-card>
    >
    <mat-card class="col-3 mx-3 my-3 bg-warning" color="accent">
      >Branch 2</mat-card>
    >
    <mat-card class="col-3 mx-3 my-3 bg-warning" color="accent">
      >Branch 3</mat-card>
  </div>
</div>

```

```

    >
  </div>
</div>
</div>

```

Auditorium Forms:

```

<div class="form-container">
  <div class="mx-auto text-center bg-color">
    <div class="container py-5">
      <h1 class="fs-2 text-dark py-5 text-uppercase">
        Register New Auditorium Here
      </h1>
    </div>
  </div>
</div>

<div class="form-holder border border-4 border-info rounded mx-5">
  <form [formGroup]="auditoriumForm" (ngSubmit)="onSubmit()">
    <mat-vertical-stepper [linear]="true" #stepper>
      <mat-step [stepControl]="auditoriumForm">
        <ng-template matStepLabel>Auditorium Details</ng-template>
        <div class="row g-0 my-3 justify-content-around">
          <div class="col-sm-12 col-lg-5 mx-lg-2">
            <mat-form-field
              class="d-block w-100 text-dark"
              appearance="outline"
            >
              <mat-label>Name</mat-label>
              <input
                matInput
                placeholder="Auditorium Name"
                formControlName="name"
              />
              <mat-error *ngIf="nameErrors">{{ nameErrors }}</mat-error>
            </mat-form-field>
          </div>

          <div class="col-sm-12 col-lg-5 mx-lg-2">
            <mat-form-field
              class="d-block w-100 text-dark"
              appearance="outline"
            >
              <mat-label>Image URL</mat-label>
              <input
                matInput
                placeholder="Image Link"
                formControlName="image"
              />
            </mat-form-field>
          </div>
        </div>
      </mat-step>
    </mat-vertical-stepper>
  </form>
</div>

```

```
</mat-form-field>
</div>
```

```
<div class="col-sm-12 col-lg-5 mx-lg-2">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Seating Capacity</mat-label>
    <input matInput formControlName="seatCapacity" readonly />
  </mat-form-field>
</div>
```

```
<div class="col-sm-12 col-lg-5 mx-lg-2">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Email Id</mat-label>
    <input
      matInput
      placeholder="Email Id"
      formControlName="email"
    />
    <mat-error *ngIf="emailErrors">{{ emailErrors }}</mat-error>
  </mat-form-field>
</div>
```

```
<div class="col-sm-12 col-lg-5 mx-lg-2">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Customer Care Number</mat-label>
    <input
      matInput
      placeholder="Cust Care No"
      formControlName="customerCareNo"
    />
    <mat-error *ngIf="customerCareNoErrors">{{
      customerCareNoErrors
    }}</mat-error>
  </mat-form-field>
</div>
```

```
<div class="col-sm-12 col-lg-5 mx-lg-2">
  <mat-form-field
    class="d-block w-100 text-dark"
```

```

        appearance="outline"
      >
        <mat-label>Address</mat-label>
        <input
          matInput
          placeholder="Address"
          FormControlName="address"
        />
        <mat-error *ngIf="addressErrors">{{ addressErrors }}</mat-error>
      </mat-form-field>
    </div>
  </div>
  <div>
    <button mat-button matStepperNext type="button">Next</button>
  </div>
</mat-step>

```

```

<mat-step [stepControl]="auditoriumForm.get('safeties')!" optional>
  <ng-template matStepLabel>Add Safeties</ng-template>
  <div class="row g-0 justify-content-around">
    <div
      class="col-sm-12 col-lg-5 form-field"
      formArrayName="safeties"
      *ngFor="let safety of safeties.controls; index as i"
    >
      <mat-form-field
        class="d-block w-100 text-dark"
        appearance="outline"
      >
        <mat-label>Safety</mat-label>
        <input
          matInput
          placeholder="Hand Sanitizers Available"
          [FormControlName]="i"
          [attr.list]="safety-' + i'"
        />
        <datalist [id]="safety-' + i'">
          <option [value]="safety" *ngFor="let safety of allSafeties">
            {{ safety }}
          </option>
        </datalist>

        <mat-error *ngIf="safeties.touched">
          <span *ngIf="safety.errors?.required">
            >Safety cannot be empty</span>
          >
          <span *ngIf="safety.errors?.uniqueName">
            >Safety already added</span>

```

```

    >
    </mat-error>
</mat-form-field>
<mat-icon
  class="fs-2 w-auto text-danger delete-icon"
  (click)="removeSafety(i)"
  aria-hidden="false"
  matTooltip="Remove the Safety"
  aria-label="delete icon"
>delete</mat-icon
>
</div>
</div>
<div class="text-center text-primary mt-4">
  <mat-icon
    class="pe-cursor fs-2"
    aria-hidden="false"
    matTooltip="Add one more safety"
    aria-label="add_circle icon"
    (click)="addSafety()"
  >add_circle</mat-icon
  >
</div>
<div>
  <button mat-button matStepperPrevious type="button">Back</button>
  <button mat-button matStepperNext type="button">Next</button>
</div>
</mat-step>

<mat-step [stepControl]="auditoriumForm.get('facilities')!" optional>
  <ng-template matStepLabel>Add Facilities</ng-template>
  <div class="row g-0 justify-content-around">
    <div
      class="col-sm-12 col-lg-5 form-field"
      formArrayName="facilities"
      *ngFor="let facility of facilities.controls; index as i"
    >
      <mat-form-field
        class="d-block w-100 text-dark"
        appearance="outline"
      >
        <mat-label>Facility</mat-label>
        <input
          matInput
          placeholder="Parking Facility"
          [formControlName]="i"
          [attr.list]="'facility-' + i"
        />
      >
    >
  </div>

```

```

<datalist [id]="facility-' + i">
  <option
    [value]="facility"
    *ngFor="let facility of allFacilities"
  >
    {{ facility }}
  </option>
</datalist>

<mat-error *ngIf="facilities.touched">
  <span *ngIf="facility.errors?.required"
    >Facility cannot be empty</span>
  >
  <span *ngIf="facility.errors?.uniqueName"
    >Facility already added</span>
  >
</mat-error>
</mat-form-field>
<mat-icon
  class="fs-2 w-auto text-danger delete-icon"
  (click)="removeFacility(i)"
  aria-hidden="false"
  matTooltip="Remove the Facility"
  aria-label="delete icon"
  >delete</mat-icon>
>
</div>
</div>
<div class="text-center text-primary mt-4">
  <mat-icon
    class="pe-cursor fs-2"
    aria-hidden="false"
    matTooltip="Add one more facility"
    aria-label="add_circle icon"
    (click)="addFacility()"
    >add_circle</mat-icon>
  >
</div>
<div>
  <button mat-button matStepperPrevious type="button">Back</button>
  <button mat-button matStepperNext type="button">Next</button>
</div>
</mat-step>

<mat-step [stepControl]="auditoriumForm.get('shows')!" optional>
  <ng-template matStepLabel>Add Shows</ng-template>
  <div
    class="w-100"

```



```

formArrayName="shows"
*ngFor="let show of shows.controls; index as i"
>
<div
  class="
    row
    g-0
    justify-content-around
    align-content-center
    form-field
  "
  [formGroupName]="i"
>
<div class="col-lg-5 col-sm-12">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Show Name</mat-label>
    <input
      matInput
      formControlName="name"
      [attr.list]="show-name-' + i"
    />
    <datalist [id]="show-name-' + i">
      <option *ngFor="let show of showNames" [value]="show">
        {{ show }}
      </option>
    </datalist>
    <mat-error *ngIf="show.touched">
      <span *ngIf="show.get('name')?.errors?.required"
        >Show Name cannot be empty</span>
      >
      <span *ngIf="show.get('name')?.errors?.uniqueName"
        >Show Name already added</span>
      >
    </mat-error>
  </mat-form-field>
</div>
<div class="col-lg-5 col-sm-12">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Show Timing</mat-label>
    <input
      type="time"
      matInput

```

```

        placeholder="Matnee"
        formControlName="startTime"
    />
    <mat-error *ngIf="shows.touched">
        <span *ngIf="show.get('startTime')?.errors?.required">
            Show Start Time cannot be empty</span>
        >
        <span *ngIf="show.get('startTime')?.errors?.uniqueTime">
            Time gap between the shows must be at-least 3 hours</span>
        >
    </mat-error>
</mat-form-field>
</div>
<mat-icon
    class="fs-2 w-auto text-danger delete-icon"
    (click)="removeShow(i)"
    aria-hidden="false"
    matTooltip="Remove the Show"
    aria-label="delete icon"
    >delete</mat-icon>
>
</div>
</div>
<div class="text-center text-primary mt-4">
    <mat-icon
        class="pe-cursor fs-2"
        aria-hidden="false"
        matTooltip="Add one more facility"
        aria-label="add_circle icon"
        (click)="addShow()"
        >add_circle</mat-icon>
    >
</div>
<div>
    <button mat-button matStepperPrevious type="button">Back</button>
    <button mat-button matStepperNext type="button">Next</button>
</div>
</mat-step>

<mat-step>
    <ng-template matStepLabel>Review</ng-template>
    <pre>
        {{ auditoriumForm.value | json }}
    </pre>
    <div>
        <button mat-button matStepperPrevious type="button">Back</button>
        <button
            mat-button

```

```

        color="primary"
        [disabled]="!auditoriumForm.valid"
      >
        Submit
      </button>
    </div>
  </mat-step>
</mat-vertical-stepper>
</form>
</div>
</div>

```

Contact Us:

```

<div class="contact-us-container">
  <div class="contact-us-wrapper position-relative">
    <div class="contact-us-banner">
      <div class="contact-us-banner-text h-100">
        <h1 class="fs-1">Contact Us</h1>
        <h2 class="fs-2 text-uppercase">Drop us a line, get in touch</h2>
      </div>
    </div>
  </div>
</div>

<div class="get-in-touch my-5">
  <div class="row g-0 justify-content-around">
    <div class="write-to-us col-sm-12 col-md-12 col-lg-7">
      <h1 class="fs-2">Write to us by filling in the form below</h1>
      <div class="underline"></div>
      <div class="form-container">
        <form class="example-form col-sm-12 col-lg-8 mx-auto">
          <mat-form-field
            class="example-full-width d-block text-dark"
            appearance="standard"
          >
            <mat-label class="text-dark">Your Name</mat-label>
            <input type="text" matInput class="fs-5 text-dark" />
          </mat-form-field>

          <mat-form-field
            class="example-full-width d-block w-100 text-dark"
            appearance="standard"
          >
            <mat-label class="text-dark">Email Id</mat-label>
            <input type="email" matInput class="fs-5 text-dark" />
          </mat-form-field>

          <mat-form-field

```

```

        class="example-full-width d-block w-100 text-dark"
        appearance="standard"
    >
        <mat-label class="text-dark">Message</mat-label>
        <textarea matInput placeholder="How can we help you!"></textarea>
    </mat-form-field>

    <button mat-raised-button color="accent" type="submit">
        Contact Us
    </button>
</form>
</div>
</div>
<div class="address col-sm-12 col-md-12 col-lg-4">
    <h1 class="fs-2">Contact Us</h1>
    <div class="underline text-success"></div>

    <div class="contact-address">
        <mat-list>
            <mat-list-item role="listitem" class="py-2 h-auto">
                <mat-icon class="d-inline-block"> place </mat-icon>
                <div class="address ms-3 text-muted col-10">
                    Big Tree Entertainment Private Limited Ground Floor, Wajeda
                    House, Gulmohar Cross Road No. 7, Juhu Scheme, Mumbai,
                    Maharashtra - 400049
                </div>
            </mat-list-item>
            <mat-divider></mat-divider>
            <mat-list-item role="listitem" class="py-2 h-auto">
                <mat-icon class="d-inline-block"> email </mat-icon>
                <div class="address ms-3 text-muted col-10">nms@cinemas.com</div>
            </mat-list-item>
            <mat-divider></mat-divider>
            <mat-list-item role="listitem" class="py-2 h-auto">
                <mat-icon class="d-inline-block col-1"> support_agent </mat-icon>
                <div class="address ms-3 text-muted col-10">1800-894-4059</div>
            </mat-list-item>
        </mat-list>
    </div>
</div>
</div>
</div>
</div>
</div>

```

Footer:

```

<footer
    *ngIf="router.url !== '/select-seats'"

```

```

class="row w-100 justify-content-around mx-0 footer"
[ngClass]="fixed ? 'fixed-bottom' : ''"
>
<div
  class="text-center text-white"
  style="height: 50px; line-height: 50px"
  [ngClass]="{
    'bg-dark': !bgColor,
    bgColor: bgColor,
    'text-white': !textColor,
    textColor: textColor
  }"
>
  Designed & Developed by
  <a
    target="_blank"
    class="text-decoration-none mx-2"
    ><strong>Shubham Kumar Vivek</strong></a>
  >
</div>
</footer>

```

Forgot Password:

```

<main class="px-3 my-auto">
  <p
    class="lead mb-2 p-2 rounded"
    [ngClass]="(alertDanger$ | async) ? 'alert-danger' : 'alert-success'"
    *ngIf="showAlert$ | async"
  >
    {{ alertMessage$ | async }}
  </p>
  <h1 class="fs-2 py-4">Change Password Here</h1>

  <div class="example-container">
    <form
      #passwordForm
      class="row w-100 g-0"
      [formGroup]="forgotPasswordForm"
      (ngSubmit)="onSubmit()"
    >
      <div class="col-12 mb-3">
        <mat-form-field appearance="outline" class="text-white d-block">
          <mat-label>Enter your username</mat-label>
          <input
            matInput
            type="text"
            placeholder="nms@cinemas.com"

```

```

        formControlName="username"
        class="fs-5"
    />
    <mat-hint *ngIf="username.pending" class="text-warning"
    >Checking for username...</mat-hint
    >
    <mat-error *ngIf="usernameErrors">{{ usernameErrors }}</mat-error>
</mat-form-field>
</div>

<div class="col-12 mb-3">
    <mat-form-field appearance="outline" class="text-white d-block">
        <mat-label>Enter your password</mat-label>
        <input
            matInput
            [type]="hidePassword ? 'password' : 'text'"
            formControlName="password"
            class="fs-5"
        />
        <mat-error *ngIf="passwordErrors">{{ passwordErrors }}</mat-error>
        <button
            mat-icon-button
            matSuffix
            (click)="hidePassword = !hidePassword"
            [attr.aria-label]="Hide password"
            [attr.aria-pressed]="hidePassword"
        >
            <mat-icon>{{
                hidePassword ? "visibility_off" : "visibility"
            }}</mat-icon>
        </button>
    </mat-form-field>
</div>

<button
    mat-raised-button
    [color]="!forgotPasswordForm.valid ? 'accent' : 'primary'"
    class="col-12"
    type="submit"
>
    Change Password
</button>
</form>
</div>
</main>

```

Header:

```

<nav
  *ngIf="router.url !== '/select-seats'"
  id="nav-bar"
  class="navbar navbar-expand-lg navbar-dark bg-show text-white px-lg-3"
>
  <div class="container-fluid">
    <a mat-button class="navbar-brand ms-sm-3 fs-4" routerLink="/home">{{
      title
    }}</a>
    <button
      class="navbar-toggler"
      mat-icon-button
      aria-label="Example icon-button with a menu"
      type="button"
      data-bs-toggle="collapse"
      data-bs-target="#navbarSupportedContent"
      aria-controls="navbarSupportedContent"
      aria-expanded="false"
      aria-label="Toggle navigation"
    >
      <mat-icon>more_vert</mat-icon>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0 text-sm-center">
        <li class="nav-item mx-lg-2 mx-md-auto">
          <a
            mat-button
            class="nav-link"
            aria-current="page"
            routerLinkActive="active"
            routerLink="/home"
          >Home</a>
        >
      </li>
        <li class="nav-item mx-lg-2 mx-md-auto">
          <a
            mat-button
            class="nav-link"
            routerLinkActive="active"
            [routerLink]="['/movies']"
          >Movies</a>
        >
      </li>
        <li class="nav-item mx-lg-2 mx-md-auto">
          <a
            mat-button
            class="nav-link"
            routerLinkActive="active"

```

```

        routerLink="/about"
      >About Us</a>
    >
  </li>
  <li class="nav-item mx-lg-2 mx-md-auto">
    <a
      mat-button
      class="nav-link"
      routerLinkActive="active"
      routerLink="/contact"
      >Contact Us</a>
    >
  </li>
  <li class="nav-item dropdown" *ngIf="service.isAdmin()">
    <a
      class="nav-link dropdown-toggle"
      href="#"
      id="admin-panel"
      role="button"
      data-bs-toggle="dropdown"
      aria-expanded="false"
    >
      Admin Panel
    </a>
    <ul class="dropdown-menu" aria-labelledby="admin-panel">
      <li class="nav-item mx-lg-2 mx-md-auto">
        <a
          class="dropdown-item"
          href="#"
          routerLinkActive="active"
          routerLink="/admin/add-auditorium"
          >Add Auditorium</a>
        >
      </li>
      <li class="nav-item mx-lg-2 mx-md-auto">
        <a
          class="dropdown-item"
          href="#"
          routerLinkActive="active"
          routerLink="/admin/add-movie"
          >Add Movie</a>
        >
      </li>
      <li class="nav-item mx-lg-2 mx-md-auto">
        <a
          class="dropdown-item"
          href="#"
          routerLinkActive="active"

```



```

        routerLink="/admin/manage"
      >Manage</a>
    >
  </li>
</ul>
</li>
</ul>
<div class="profile text-sm-center">
  <!-- <button mat-button [matMenuTriggerFor]="menu">
    
    My Account
  </button>
  <mat-menu #menu="matMenu">
    <a routerLink="/user/login" mat-menu-item>Login</a>
    <a routerLink="/user/register" mat-menu-item>Register</a>
    <a routerLink="/user/forgot-password" mat-menu-item>
      Forgot Password
    </a>
    <a routerLink="/user/profile" mat-menu-item>My Profile</a>
    <a routerLink="/user/bookings" mat-menu-item>My Bookings</a>
    <a routerLink="/user/logout" mat-menu-item>Logout</a>
  </mat-menu> -->
  <ul class="navbar-nav col-auto" *ngIf="service.isLoggedIn()">
    <li class="nav-item dropdown">
      <a
        class="nav-link dropdown-toggle fs-6 my-2"
        href="#"
        id="account-links"
        role="button"
        data-bs-toggle="dropdown"
        aria-expanded="false"
        >{{ service.getUser()?.email! }}
      </a>
      <ul
        class="dropdown-menu dropdown-menu-dark"
        aria-labelledby="account-links"
      >
        <li class="nav-item">
          <a class="dropdown-item py-1" routerLink="/my/profile"
            >Profile</a>

```

```

    >
  </li>
  <li class="nav-item">
    <a class="dropdown-item py-1" routerLink="/my/bookings"
      >Bookings</a>
    >
  </li>
  <li class="nav-item text-center">
    <a
      class="btn btn-outline-warning btn-sm col-11 mt-2"
      (click)="onLogout()"
      >Logout</a>
    >
  </li>
</ul>
</li>
</ul>
<div class="btn-group p-2" *ngIf="!service.isLoggedIn()">
  <a
    routerLink="/user/login"
    routerLinkActive="active"
    class="btn btn-primary btn-sm rounded mx-1"
    >Login</a>
  >
  <a
    routerLink="/user/register"
    routerLinkActive="active"
    class="btn btn-success btn-sm rounded mx-1"
    >Register</a>
  >
</div>
</div>
</div>
</div>
</div>
</nav>

```

Home Page:

```

<div class="container-fluid my-2 pb-5">
  <h1
    class="text-center text-warning h-100vh mx-auto"
    *ngIf="(carousel$ | async)?.length! < 1"
    >
    Movie List is empty
  </h1>
  <ng-container *ngIf="(carousel$ | async)?.length! > 0">
    <div id="movies-carousel" class="carousel slide" data-bs-ride="carousel">
      <div class="carousel-indicators">

```

```

<button
  [ngClass]="i == 0 ? 'active' : ''"
  [attr.aria-current]="i == 0 ? true : false"
  *ngFor="let movie of carousel$ | async; index as i"
  type="button"
  data-bs-target="#movies-carousel"
  [attr.data-bs-slide-to]="i"
  [attr.aria-label]="Slide ' + i"
></button>
</div>

<div class="carousel-inner">
  <div
    class="carousel-item"
    *ngFor="let movie of carousel$ | async; index as i"
    [ngClass]="i == 0 ? 'active' : ''"
  >
    <img
      [src]="movie.bgImage"
      class="d-block w-100"
      height="550"
      [alt]="movie.name"
    />
    <div class="carousel-caption d-none d-md-block">
      <h5 class="fs-1 mb-3">{{ movie.name | uppercase }}</h5>
      <p class="lead">
        {{
          (movie.language | titlecase) +
            " | " +
            (movie.genres?.join(" - ") | titlecase) +
            " | " +
            movie.year
        }}
      </p>
    </div>
  </div>
</div>
<button
  class="carousel-control-prev"
  type="button"
  data-bs-target="#movies-carousel"
  data-bs-slide="prev"
>
  <span class="carousel-control-prev-icon" aria-hidden="true"></span>
  <span class="visually-hidden">Previous</span>
</button>
<button
  class="carousel-control-next"

```

```

    type="button"
    data-bs-target="#movies-carousel"
    data-bs-slide="next"
  >
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="visually-hidden">Next</span>
  </button>
</div>

<section
  *ngIf="(nowPlaying$ | async)?.length! > 0"
  class="now-showing my-5 bg-dark text-white p-lg-5"
>
  <div class="row g-0 mb-5 justify-content-around">
    <h3 class="text-uppercase fs-2 col-11">Now Playing</h3>
    <a
      routerLink="/movies"
      [queryParams]="{ show: 'now-playing' }"
      class="d-block col-1 text-end"
    >view all</a>
  >
</div>
<div class="now-showing-movies">
  <div class="card-group row g-0 justify-content-around">
    <div
      class="col-sm-11 col-md-5 col-lg-3 col-xxl-2 px-2 position-relative"
      *ngFor="let movie of nowPlaying$ | async"
    >
      <div class="image-card position-relative rounded-5 overflow-hidden">
        <img
          [src]="movie.image"
          class="card-img-top"
          height="400"
          width="284"
          [alt]="movie.name"
        />
        <div
          class="
            image-release
            position-absolute
            bottom-0
            start-0
            bg-white
            text-dark
            w-100
            text-center
            py-2
          "

```

```

    >
      {{ formatRelease(movie.release) }}
    </div>
  </div>
  <div class="card-body text-center">
    <h2 class="card-title fs-4 mb-0">
      <a
        class="stretched-link"
        routerLink="../../movie/{{ movie.id }}"
        >{{ movie.name | uppercase }}</a>
      >
    </h2>
    <h3 class="card-text text-muted">
      {{ movie.language | titlecase }}
    </h3>
  </div>
</div>
</div>
</div>
</section>

<section
  *ngIf="(upComing$ | async)?.length! > 0"
  class="up-coming my-5 p-lg-5"
>
  <div class="row g-0 mb-5 justify-content-around">
    <h3 class="text-uppercase fs-2 col-11">Up Coming</h3>
    <a
      routerLink="../../movies"
      [queryParams]="{ show: 'up-coming' }"
      class="d-block col-1 text-end"
      >view all</a>
    >
  </div>
  <div class="up-coming-movies">
    <div class="card-group row g-0 justify-content-around">
      <div
        class="col-sm-11 col-md-5 col-lg-3 col-xxl-2 px-2 position-relative"
        *ngFor="let movie of upComing$ | async"
      >
        <div class="image-card position-relative rounded-5 overflow-hidden">
          <img
            [src]="movie.image"
            class="card-img-top"
            height="400"
            width="284"
            [alt]="movie.name"
          />

```

```

<div
  class="
    image-release
    position-absolute
    bottom-0
    start-0
    bg-dark
    text-white
    w-100
    text-center
    py-2
  "
>
  {{ formatRelease(movie.release) }}
</div>
</div>
<div class="card-body text-center">
  <h2 class="card-title fs-4 mb-0">
    <a
      class="stretched-link"
      routerLink="../../movie/{{ movie.id }}"
      >{{ movie.name | uppercase }}</a>
    >
  </h2>
  <h3 class="card-text text-muted">
    {{ movie.language | titlecase }}
  </h3>
</div>
</div>
</div>
</div>
</section>
</ng-container>
</div>

```

Layout:

```

<app-header></app-header>
<router-outlet></router-outlet>
<app-footer></app-footer>

```

Log In :

```

<main class="px-3 my-auto">
  <p
    class="lead mb-2 p-2 rounded"
    [ngClass]="(alertDanger$ | async) ? 'alert-danger' : 'alert-success'"
    *ngIf="showAlert$ | async"
  >

```

```

>
  {{ alertMessage$ | async }}
</p>
<h1 class="fs-2 py-4">Login Page</h1>

<div class="example-container">
  <form
    action="#"
    class="row w-100 g-0"
    [formGroup]="loginForm"
    (ngSubmit)="onSubmit()"
  >
    <div class="col-12 mb-3">
      <mat-form-field appearance="outline" class="text-white d-block">
        <mat-label>Enter your username</mat-label>
        <input matInput type="text" formControlName="username" class="fs-5" />
        <mat-error *ngIf="usernameErrors">{{ usernameErrors }}</mat-error>
      </mat-form-field>
    </div>

    <div class="col-12 mb-3">
      <mat-form-field appearance="outline" class="text-white d-block">
        <mat-label>Enter your password</mat-label>
        <input
          matInput
          [type]="hidePassword ? 'password' : 'text'"
          formControlName="password"
          class="fs-5"
        />
        <mat-error *ngIf="passwordErrors">{{ passwordErrors }}</mat-error>
        <button
          mat-icon-button
          matSuffix
          (click)="hidePassword = !hidePassword"
          [attr.aria-label]="Hide password"
          [attr.aria-pressed]="hidePassword"
        >
          <mat-icon>{{
            hidePassword ? "visibility_off" : "visibility"
          }}</mat-icon>
        </button>
      </mat-form-field>
    </div>

    <button
      mat-raised-button
      class="col-12"
      type="submit"

```

```

        [color]="!loginForm.valid ? 'accent' : 'primary'"
    >
        Login
    </button>
</form>
</div>
</main>

```

Login LayOut:

```

<div class="d-flex h-100 text-center text-white bg-dark cover-page mb-5">
  <div class="cover-container d-flex w-100 p-3 mx-auto flex-column">
    <header class="mb-5">
      <div class="clearfix">
        <h3 class="float-md-start mb-0 fs-4 text-md-center">{{ title }}</h3>
        <nav class="nav nav-masthead justify-content-center float-md-end">
          <a class="nav-link" aria-current="page" routerLink="/home">Home</a>
          <a class="nav-link" routerLinkActive="active" routerLink="/user/login"
            >Login</a>
          <a
            class="nav-link"
            routerLinkActive="active"
            routerLink="/user/register"
            >Register</a>
          <a
            class="nav-link"
            routerLinkActive="active"
            routerLink="/user/forgot-password"
            >Forgot Password</a>
        </nav>
      </div>
    </header>

    <router-outlet></router-outlet>
  </div>
</div>

<app-footer [fixed]="true"></app-footer>

<!-- [fixed]="true"
  bgColor="bg-white"
  textColor="text-dark" -->

```

Manage:


```

<div class="wrapper w-100 my-2">
  <div class="container-fluid row g-0 h-90vh">
    <div class="col-lg-3 px-2 border-3 border-end row g-0">
      <h2
        class="
          py-2
          rounded
          text-center text-dark
          shadow-sm
          border border-2 border-dark
          align-self-start
        "
      >
        Cinema Halls
      </h2>
      <div class="overflow-auto h-70vh">
        <h1 *ngIf="!allAuditoriums" class="text-danger text-center">
          Cinema Hall list is empty
        </h1>
        <mat-list role="list" *ngIf="allAuditoriums">
          <mat-list-item
            role="listitem"
            *ngFor="let hall of allAuditoriums"
            class="position-relative options pe-cursor rounded"
            [ngClass]="{ highlight: hall.id == selectedCinemaHallId }"
            (click)="onCinemaHallSelect(hall.id!)"
          >
            <div class="w-100">
              {{ hall.name | uppercase }}
            </div>
            <span class="icon-holder w-auto">
              <mat-icon
                class="w-auto text-info me-1 pe-cursor edit-icon"
                aria-hidden="false"
                matTooltip="Edit Cinema Hall"
                (click)="onEditCinemaHall(hall.id!)"
                aria-label="edit icon"
              >edit
            </mat-icon>
            <mat-icon
              class="w-auto text-danger ms-1 pe-cursor delete-icon"
              aria-hidden="false"
              matTooltip="Delete Cinema Hall"
              (click)="onDeleteCinemaHall(hall.id!)"
              aria-label="delete icon"
            >delete
            </mat-icon>
          </span>
        </mat-list-item>
      </div>
    </div>
  </div>
</div>

```

```

        </mat-list-item>
    </mat-list>
</div>
<a
  mat-raised-button
  class="align-self-end mt-auto w-100 d-block"
  color="warn"
  routerLink="../add-auditorium"
>
  Add Cinema Hall
</a>
</div>
<div class="col-lg-3 px-2 border-3 border-end row g-0">
  <h2
    class="
      py-2
      rounded
      text-center text-dark
      shadow-sm
      align-self-start
      border border-2 border-dark
    "
  >
    Shows
  </h2>
  <div class="overflow-auto h-70vh">
    <h1 *ngIf="!selectedShows" class="text-danger text-center">
      Select a Cinema Hall
    </h1>
    <mat-list *ngIf="selectedShows" role="list">
      <mat-list-item
        role="listitem"
        *ngFor="let show of selectedShows"
        class="position-relative options pe-cursor rounded"
        [ngClass]="{ highlight: show.id == selectedShowId }"
        (click)="onShowSelect(show.id!)"
      >
        <div class="w-100 row g-0 justify-content-around">
          <div class="col-5">{{ show.name | titlecase }}</div>
          |
          <div class="col-5">
            {{ "Time: " + formatTime(show.startTime) }}
          </div>
        </div>
        <span class="icon-holder w-auto">
          <mat-icon
            class="w-auto text-info me-1 pe-cursor edit-icon"
            aria-hidden="false"

```

```

        matTooltip="Edit Show"
        aria-label="edit icon"
        (click)="onEditShow(show.id!)"
      >edit</mat-icon>
    >
    <mat-icon
      class="w-auto text-danger ms-1 pe-cursor delete-icon"
      aria-hidden="false"
      matTooltip="Delete Show"
      aria-label="delete icon"
      (click)="onDeleteShow(show.id!)"
    >delete</mat-icon>
  >
</span>
</mat-list-item>
</mat-list>
</div>
<button
  *ngIf="selectedShows"
  mat-raised-button
  class="align-self-end mt-auto w-100 d-block"
  (click)="onAddShow()"
  color="accent"
>
  Add Show
</button>
</div>
<div class="col-lg-6 px-2 row g-0">
  <h2
    class="
      py-2
      rounded
      text-center text-dark
      shadow-sm
      align-self-start
      border border-2 border-dark
    "
  >
    Movies
  </h2>
  <div class="overflow-auto h-70vh">
    <h1
      *ngIf="selectedShowId && !selectedMovieShows"
      class="text-warning text-center"
    >
      Selected Show has no movies
    </h1>
    <h1 *ngIf="!selectedShowId" class="text-danger text-center">

```

Select a Show

```
</h1>
<mat-list *ngIf="selectedShowId" role="list">
  <mat-list-item
    role="listitem"
    *ngFor="let shows of selectedMovieShows"
    class="position-relative show-options pe-cursor rounded h-auto py-2"
  >
    <div class="w-100">
      <img
        class="example-option-img me-2 rounded d-inline-block"
        aria-hidden
        [src]="getMovieImage(shows.movieId!)"
        height="120"
        width="120"
      />
      {{
        (getShowMovieName(shows.movieId!) | titlecase) +
        " | lang: " +
        getShowMovieLanguage(shows.movieId!) +
        " | start: " +
        (shows.start | date: "longDate") +
        " | end: " +
        (shows.end | date: "longDate")
      }}
    </div>
    <span class="icon-holder w-auto">
      <mat-icon
        class="w-auto text-info me-1 pe-cursor edit-icon"
        aria-hidden="false"
        matTooltip="Edit Movie Show"
        aria-label="edit icon"
        (click)="onEditMovie(shows.id!)"
      >edit</mat-icon>
    >
    <mat-icon
      class="w-auto text-danger ms-1 pe-cursor delete-icon"
      aria-hidden="false"
      matTooltip="Delete Movie Show"
      aria-label="delete icon"
      (click)="onDeleteMovie(shows.id!)"
    >delete</mat-icon>
    >
  </span>
</mat-list-item>
</mat-list>
</div>
<div
```

```

class="row g-0 align-self-end mt-auto col-12 justify-content-between"
>
<a
  mat-raised-button
  class="col-5 text-capitalize"
  routerLink="../../add-movie"
  color="primary"
>
  Add New Movie
</a>
<button
  *ngIf="selectedShowId"
  mat-raised-button
  class="col-5 text-capitalize"
  (click)="onAddMovieToTheShow()"
  color="warn"
>
  Add movie to the show
</button>
</div>
</div>
</div>
</div>

```

Movies:

```

<div class="movie-section">
  <div class="position-relative poster-wrapper p-3">
    <div
      class="movie-banner"
      style="
        background: linear-gradient(
          90deg,
          rgb(34, 34, 34) 24.97%,
          rgb(34, 34, 34) 38.3%,
          rgba(34, 34, 34, 0.04) 97.47%,
          rgb(34, 34, 34) 100%
        );
        no-repeat center center;
        background-size: cover;
      "
      style.background-image="linear-gradient(
        90deg,
        rgb(34, 34, 34) 24.97%,
        rgb(34, 34, 34) 38.3%,
        rgba(34, 34, 34, 0.04) 97.47%,
        rgb(34, 34, 34) 100%
      ), url({{ (selectedMovie$ | async)?.bgImage }})"
    >

```

```

>
<div class="movie-poster row g-0">
  <div class="movie-image col-lg-3 col-md-6 col-sm-10 rounded-5">
    <img
      [src]="(selectedMovie$ | async)?.image"
      [alt]="(selectedMovie$ | async)?.name"
      width="100%"
      height="100%"
    />
  <div
    class="
      movie-release
      position-absolute
      bottom-0
      start-0
      py-2
      w-100
      bg-white
      text-center
    "
  >
    {{ formatRelease((selectedMovie$ | async)?.release) }}
  </div>
</div>
<div class="movie-details text-white mx-3 px-3 col-lg-5 col-sm-12">
  <div class="movie-title mb-lg-5 fs-lg-1">
    <h1>
      {{
        ((selectedMovie$ | async)?.name | uppercase) +
        " : " +
        ((selectedMovie$ | async)?.caption | titlecase)
      }}
    </h1>
  </div>
  <div class="movie-format my-3">
    <button class="btn btn-light btn-sm disabled mx-1">4D</button>
    <button class="btn btn-light btn-sm disabled mx-1">
      {{ (selectedMovie$ | async)?.language }}
    </button>
  </div>
  <div class="movie-duration my-3">
    <p style="font: unset; font-size: 20px">
      {{
        ((selectedMovie$ | async)?.duration | titlecase) +
        " . " +
        (selectedMovie$ | async)?.genres?.join(", ")
      }}
    </p>
  </div>

```

```

</div>
<div class="links mt-4 align-self-end">
  <a
    mat-raised-button
    color="accent"
    class="me-2"
    (click)="openBottomSheet()"
  >Book Tickets</a>
  >
</div>
</div>
</div>
</div>
</div>

<div class="about-movie text-dark p-4">
  <h2>About the Movie</h2>
  <p class="lead" style="font-family: sans-serif">
    {{ (selectedMovie$ | async)?.story }}
  </p>
</div>

<!-- <nav class="px-4 py-3 w-100 shadow-sm bg-white text-dark">
  <h1>{{(selectedMovie$ | async)?.name + ' : ' + (selectedMovie$ | async)?.caption}}</h1>
  <p class="lead">{{(selectedMovie$ | async)?.genres.join(', ')}}</p>
</nav> -->

<div class="movie-cast ms-5 my-4" *ngIf="(cast$ | async)?.length! > 0">
  <h1 class="fs-lg-2">Cast</h1>
  <div class="row g-0">
    <div
      class="cast text-center col-sm-12 col-md-6 col-lg-3"
      *ngFor="let cast of cast$ | async"
    >
      <div class="image rounded-circle mx-auto mb-3">
        <!-- class="style__Image-eykeme-1 dkwyqp" -->
        <!-- style="border-radius: 60px; opacity: 1" -->
        <img
          [alt]="cast.name"
          width="120px"
          height="120px"
          [src]="cast.image"
        />
      </div>
      <div class="cast-name">
        <h5 class="fs-5">{{ cast.name }}</h5>
      </div>
    </div>
  </div>
</div>

```

</div>

```
<div class="movie-crew ms-5 my-4 pb-5" *ngIf="(crew$ | async)?.length! > 0">
  <h1 class="fs-lg-2">Crew</h1>
  <div class="row g-0">
    <div
      class="crew text-center col-sm-12 col-md-6 col-lg-3"
      *ngFor="let crew of crew$ | async"
    >
      <div class="image rounded-circle mx-auto mb-3">
        <img
          [alt]="crew.name"
          width="120px"
          height="120px"
          [src]="crew.image"
        />
      </div>
      <div class="cast-name">
        <h5 class="fs-5">{{ crew.name }}</h5>
      </div>
    </div>
  </div>
</div>
</div>
```

Movie Forms:

```
<div class="form-container">  
  <div class="mx-auto text-center bg-color">  
    <div class="container py-5">  
      <h1 class="fs-2 text-dark py-5 text-uppercase">Add New Movie</h1>  
    </div>  
  </div>  
  
  <div class="form-holder border border-4 border-warning rounded mx-5">  
    <form [formGroup]="movieForm" (ngSubmit)="onSubmit()">  
      <mat-horizontal-stepper [linear]="true" #stepper>  
        <mat-step  
          [stepControl]="validMovieDetails"  
          errorMessage="Movie details required"  
        >  
          <ng-template matStepLabel>Movie Details</ng-template>  
          <div class="row g-0 my-3 justify-content-around">  
            <div class="col-sm-12 col-lg-5 mx-lg-2">  
              <mat-form-field  
                class="d-block w-100 text-dark"  
                appearance="outline"  
              >
```



```

    <mat-label>Name</mat-label>
    <input
      matInput
      placeholder="Movie Name"
      FormControlName="name"
    />
    <mat-error *ngIf="nameErrors">{{ nameErrors }}</mat-error>
  </mat-form-field>
</div>

<div class="col-sm-12 col-lg-5 mx-lg-2">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Release Date</mat-label>
    <input
      matInput
      [min]="todayDate"
      [matDatepicker]="picker"
      placeholder="Release Date"
      FormControlName="release"
    />
    <mat-datepicker #picker></mat-datepicker>
    <mat-datepicker-toggle
      matSuffix
      [for]="picker"
    ></mat-datepicker-toggle>
    <mat-error *ngIf="releaseErrors">{{ releaseErrors }}</mat-error>
  </mat-form-field>
</div>

<div class="col-sm-12 col-lg-5 mx-lg-2">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Image URL</mat-label>
    <input
      matInput
      placeholder="Image Link"
      FormControlName="image"
    />
    <mat-error *ngIf="imageErrors">{{ imageErrors }}</mat-error>
  </mat-form-field>
</div>

<div class="col-sm-12 col-lg-5 mx-lg-2">

```

```
<mat-form-field
  class="d-block w-100 text-dark"
  appearance="outline"
>
  <mat-label>Background Image URL</mat-label>
  <input
    matInput
    placeholder="Background Image Link"
    FormControlName="bgImage"
  />
  <mat-error *ngIf="bgImageErrors">{{ bgImageErrors }}</mat-error>
</mat-form-field>
</div>
```

```
<div class="col-sm-12 col-lg-5 mx-lg-2">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Duration</mat-label>
    <input
      matInput
      placeholder="2h 25m"
      FormControlName="duration"
    />
    <mat-error *ngIf="durationErrors">{{
      durationErrors
    }}</mat-error>
  </mat-form-field>
</div>
```

```
<div class="col-sm-12 col-lg-5 mx-lg-2">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Movie Caption</mat-label>
    <input matInput FormControlName="caption" />
  </mat-form-field>
</div>
```

```
<div class="col-sm-12 col-lg-11">
  <mat-form-field
    class="d-block w-100 text-dark"
    appearance="outline"
  >
    <mat-label>Story</mat-label>
    <textarea
```

```

        matInput
        formControlName="story"
        placeholder="Narrate the story here"
    ></textarea>
    <mat-error *ngIf="storyErrors">{{ storyErrors }}</mat-error>
</mat-form-field>
</div>
</div>
<div>
    <button
        mat-button
        matStepperNext
        type="button"
        [disabled]="!validMovieDetails.valid"
    >
        Next
    </button>
</div>
</mat-step>

<mat-step [stepControl]="movieForm.get('languages')!">
    <ng-template matStepLabel>Add Language</ng-template>

    <div class="col-12 my-4 px-sm-1 px xl-4">
        <mat-form-field
            class="example-chip-list"
            class="d-block w-100 text-dark"
        >
            <mat-label>Add Language</mat-label>
            <mat-chip-list #languageList aria-label="language selection">
                <mat-chip
                    *ngFor="let language of languages"
                    [selectable]="true"
                    [removable]="true"
                    (removed)="removeLanguage(language)"
                >
                    {{ language }}
                    <mat-icon matChipRemove *ngIf="true">cancel</mat-icon>
                </mat-chip>
            </mat-chip-list>
            <input
                placeholder="New Language..."
                #languageInput
                formControlName="languages"
                [matAutocomplete]="auto"
                [matChipInputFor]="languageList"
                [matChipInputSeparatorKeyCodes]="separatorKeysCodes"
                (matChipInputTokenEnd)="addLanguage($event)"
            />
        </div>
    </mat-step>

```

```

    <mat-error
      *ngIf="movieForm.get('languages')?.hasError('required')"
      >Language cannot be empty</mat-error>
    >
  </mat-chip-list>
  <mat-autocomplete
    #auto="matAutocomplete"
    (optionSelected)="selectedLanguage($event)"
  >
    <mat-option
      *ngFor="let language of filteredLanguages | async"
      [value]="language"
    >
      {{ language }}
    </mat-option>
  </mat-autocomplete>
</mat-form-field>
</div>

<!-- <div class="row g-0 justify-content-around">
  <div
    class="col-sm-12 col-lg-5 form-field"
    formArrayName="genres"
    *ngFor="let genre of genres.controls; index as i"
  >
    <mat-form-field
      class="d-block w-100 text-dark"
      appearance="outline"
    >
      <mat-label>Genre</mat-label>
      <input matInput placeholder="Romantic" [formControlName]="i" />
      <mat-error *ngIf="genre.errors?.required && genres.touched"
        >Genre Cannot be empty</mat-error>
    >
  </mat-form-field>
  <mat-icon
    class="fs-2 w-auto text-danger delete-icon"
    (click)="removeGenre(i)"
    aria-hidden="false"
    matTooltip="Remove the Genre"
    aria-label="delete icon"
  >delete</mat-icon>
  >
</div>
</div>
<div class="text-center text-primary mt-4">
  <mat-icon
    class="pe-cursor fs-2"

```

```

        aria-hidden="false"
        matTooltip="Add one more Genre"
        aria-label="add_circle icon"
        (click)="addGenre()"
    >add_circle</mat-icon>
  >
</div> -->
<div>
  <button mat-button matStepperPrevious type="button">Back</button>
  <button mat-button matStepperNext type="button">Next</button>
</div>
</mat-step>

<mat-step [stepControl]="movieForm.get('genres')!">
  <ng-template matStepLabel>Add Language</ng-template>
  <div class="row g-0 justify-content-around">
    <div
      class="col-sm-12 col-lg-5 form-field"
      formArrayName="genres"
      *ngFor="let genres of genres.controls; index as i"
    >
      <mat-form-field
        class="d-block w-100 text-dark"
        appearance="outline"
      >
        <mat-label>Genre</mat-label>
        <input
          matInput
          placeholder="Comedy"
          [formControlName]="i"
          [attr.list]="'genres-' + i"
        />
        <datalist [id]="'genres-' + i">
          <option [value]="genre" *ngFor="let genre of allGenres">
            {{ genre }}
          </option>
        </datalist>

        <mat-error *ngIf="genres.touched">
          <span class="mx-1" *ngIf="genres.errors?.required">
            >Genre cannot be empty</span>
          >
          <span class="mx-1" *ngIf="genres.errors?.validGenre">
            >Invalid movie genre</span>
          >
          <span class="mx-1" *ngIf="genres.errors?.uniqueName">
            >Genre already added</span>
          >

```

```

    </mat-error>
  </mat-form-field>

  <mat-icon
    class="fs-2 w-auto text-danger delete-icon"
    (click)="removeGenre(i)"
    aria-hidden="false"
    matTooltip="Remove the Genre"
    aria-label="delete icon"
  >delete</mat-icon>
  >
</div>
</div>
<div class="text-center text-primary mt-4">
  <mat-icon
    class="pe-cursor fs-2"
    aria-hidden="false"
    matTooltip="Add one more Genre"
    aria-label="add_circle icon"
    (click)="addGenre()"
  >add_circle</mat-icon>
  >
</div>
<div>
  <button mat-button matStepperPrevious type="button">Back</button>
  <button mat-button matStepperNext type="button">Next</button>
</div>
</mat-step>

<mat-step [stepControl]="movieForm.get('casts')!">
  <ng-template matStepLabel>Add Cast Details</ng-template>
  <div
    class="w-100"
    formArrayName="casts"
    *ngFor="let cast of casts.controls; index as i"
  >
    <div
      class="
        row
        g-0
        justify-content-around
        align-content-center
        form-field
      "
      [formGroupName]="i"
    >
      <div class="col-lg-3 col-sm-6">
        <mat-form-field

```

```

        class="d-block w-100 text-dark"
        appearance="outline"
    >
    <mat-label>Actor Name</mat-label>
    <input
        matInput
        placeholder="Actor Name"
        FormControlName="name"
    />
    <mat-error
        *ngIf="cast.get('name')?.errors?.required && cast.touched"
    >
        Name cannot be empty
    </mat-error>
</mat-form-field>
</div>

<div class="col-lg-3 col-sm-6">
    <mat-form-field
        class="d-block w-100 text-dark"
        appearance="outline"
    >
    <mat-label>Actor Role</mat-label>
    <input matInput placeholder="Hero" FormControlName="role" />
    <mat-error
        *ngIf="cast.get('role')?.errors?.required && cast.touched"
    >
        Actor role cannot be empty
    </mat-error>
</mat-form-field>
</div>

<div class="col-lg-3 col-sm-6">
    <mat-form-field
        class="d-block w-100 text-dark"
        appearance="outline"
    >
    <mat-label>Actor Image</mat-label>
    <input
        matInput
        placeholder="Actor image"
        FormControlName="image"
    />
    <mat-error
        *ngIf="cast.get('image')?.errors?.required && cast.touched"
    >
        Actor image cannot be empty
    </mat-error>

```

```

        </mat-form-field>
      </div>
      <mat-icon
        class="fs-2 w-auto text-danger delete-icon"
        (click)="removeCast(i)"
        aria-hidden="false"
        matTooltip="Remove the Cast"
        aria-label="delete icon"
      >delete</mat-icon>
    >
  </div>
</div>
<div class="text-center text-primary mt-4">
  <mat-icon
    class="pe-cursor fs-2"
    aria-hidden="false"
    matTooltip="Add one more Cast"
    aria-label="add_circle icon"
    (click)="addCast()"
  >add_circle</mat-icon>
  >
</div>
<div>
  <button mat-button matStepperPrevious type="button">Back</button>
  <button mat-button matStepperNext type="button">Next</button>
</div>
</mat-step>

<mat-step [stepControl]="movieForm.get('crews')!">
  <ng-template matStepLabel>Add Crew Details</ng-template>
  <div
    class="w-100"
    formArrayName="crews"
    *ngFor="let crew of crews.controls; index as i"
  >
    <div
      class="
        row
        g-0
        justify-content-around
        align-content-center
        form-field
      "
      [formGroupName]="i"
    >
      <div class="col-lg-3 col-sm-6">
        <mat-form-field
          class="d-block w-100 text-dark"

```



```

        appearance="outline"
      >
        <mat-label>Crew Name</mat-label>
        <input
          matInput
          placeholder="Crew Name"
          FormControlName="name"
        />
        <mat-error
          *ngIf="crew.get('name')?.errors?.required && crew.touched"
        >
          Name cannot be empty
        </mat-error>
      </mat-form-field>
    </div>

    <div class="col-lg-3 col-sm-6">
      <mat-form-field
        class="d-block w-100 text-dark"
        appearance="outline"
      >
        <mat-label>Crew Role</mat-label>
        <input
          matInput
          placeholder="Director"
          FormControlName="role"
        />
        <mat-error
          *ngIf="crew.get('role')?.errors?.required && crew.touched"
        >
          Crew role cannot be empty
        </mat-error>
      </mat-form-field>
    </div>

    <div class="col-lg-3 col-sm-6">
      <mat-form-field
        class="d-block w-100 text-dark"
        appearance="outline"
      >
        <mat-label>Crew Image</mat-label>
        <input
          matInput
          placeholder="Crew image"
          FormControlName="image"
        />
        <mat-error
          *ngIf="crew.get('image')?.errors?.required && crew.touched"

```

```

        >
        Crew image cannot be empty
      </mat-error>
    </mat-form-field>
  </div>
  <mat-icon
    class="fs-2 w-auto text-danger delete-icon"
    (click)="removeCrew(i)"
    aria-hidden="false"
    matTooltip="Remove the Cast"
    aria-label="delete icon"
  >delete</mat-icon>
  >
</div>
</div>
<div class="text-center text-primary mt-4">
  <mat-icon
    class="pe-cursor fs-2"
    aria-hidden="false"
    matTooltip="Add one more Cast"
    aria-label="add_circle icon"
    (click)="addCrew()"
  >add_circle</mat-icon>
  >
</div>
<div>
  <button mat-button matStepperPrevious type="button">Back</button>
  <button mat-button matStepperNext type="button">Next</button>
</div>
</mat-step>

<mat-step>
  <ng-template matStepLabel>Review</ng-template>
  <pre>
    {{ movieForm.value | json }}
  </pre>
  >
  <div>
    <button mat-button matStepperPrevious type="button">Back</button>
    <button
      mat-button
      class="text-success"
      [disabled]="!movieForm.valid"
    >
      Submit
    </button>
  </div>
</mat-step>

```

```

    </mat-horizontal-stepper>
  </form>
</div>
</div>

```

Movies:

```

<div class="px-lg-5 row g-0 my-5 justify-content-around position-relative">
  <div class="col-3">
    <div class="sorting text-center mb-3 align-self-center">
      <h2 class="fs-2 text-center text-dark text-uppercase">Show</h2>
      <br />
      <mat-form-field appearance="outline" class="d-block w-100">
        <mat-label>Show</mat-label>
        <mat-select name="showText" [(ngModel)]="showText">
          <mat-option
            *ngFor="let type of types"
            [value]="type"
            (onSelectionChange)="onTypeChange(type)"
            >{{ type }}</mat-option>
          >
        </mat-select>
      </mat-form-field>
    </div>
    <br />
    <div class="filter">
      <h2 class="fs-2 text-center text-dark text-uppercase">Filters</h2>
      <br />
      <mat-accordion
        class="example-headers-align"
        multi
        togglePosition="before"
      >
        <mat-expansion-panel class="rounded my-1">
          <mat-expansion-panel-header>
            <mat-panel-title
              [ngClass]="{
                'text-danger': languageFilter != null && languageFilter != ''
              }"
            >
              Language
            </mat-panel-title>
            <mat-panel-description
              (click)="clearLanguageFilter()"
              class="clear-filter"
              [ngClass]="{
                'text-danger': languageFilter != null && languageFilter != ''
              }"
            >

```

```

    >
      Clear
    </mat-panel-description>
  </mat-expansion-panel-header>
  <div class="row g-0 justify-content-around">
    <div
      class="my-2 col-4 text-start"
      *ngFor="let language of allLanguages"
    >
      <input
        type="radio"
        autocomplete="off"
        [checked]="language == languageFilter"
        class="btn-check"
        [id]="language"
        name="selectedLanguage"
        (change)="handleLanguageChange(language)"
      />
      <label
        class="btn btn-sm"
        [for]="language"
        [ngClass]="{
          'btn-warning': language == languageFilter,
          'btn-info': language != languageFilter
        }"
      >{{ language }}</label>
    >
  </div>
</div>
</mat-expansion-panel>

<mat-expansion-panel class="rounded my-1">
  <mat-expansion-panel-header>
    <mat-panel-title
      [ngClass]="{
        'text-danger': genreFilter != null && genreFilter != ''
      }"
    >
      Genre
    </mat-panel-title>
    <mat-panel-description
      class="clear-filter"
      (click)="clearGenreFilter()"
      [ngClass]="{
        'text-danger': genreFilter != null && genreFilter != ''
      }"
    >Clear</mat-panel-description>
  >

```

```

</mat-expansion-panel-header>
<div class="row g-0 justify-content-around">
  <div class="my-2 col-4 text-start" *ngFor="let genre of allGenres">
    <input
      type="radio"
      autocomplete="off"
      [checked]="genre == genreFilter"
      class="btn-check"
      [id]="genre"
      name="selectedGenre"
      (change)="handleGenreChange(genre)"
    />
    <label
      class="btn btn-sm"
      [for]="genre"
      [ngClass]="{
        'btn-warning': genre == genreFilter,
        'btn-info': genre != genreFilter
      }"
    >{{ genre }}</label>
  >
</div>
</div>
</mat-expansion-panel>
</mat-accordion>
</div>
</div>

```

```

<div class="col-8 movies">
  <div class="now-showing">
    <mat-toolbar
      [color]="showText == 'Now Playing' ? 'primary' : 'accent'"
      class="rounded"
    >
      <div class="row g-0 justify-content-around w-100 h-auto py-3">
        <div class="col-sm-12 col-lg-3 text-center">{{ showText }}</div>
        <div class="col-sm-12 col-lg-9">
          <input
            class="form-control me-2 w-100"
            type="search"
            placeholder="Search for movie, genre or language"
            aria-label="Search"
            name="search"
            [(ngModel)]="search"
          />
        </div>
      </div>
    </mat-toolbar>
  </div>

```

```

<h1 class="text-center text-warning my-4" *ngIf="!(moviesList$ | async)">
  No movies found
</h1>
<div class="now-showing-movies my-4" *ngIf="moviesList$ | async">
  <div class="card-group justify-content-around">
    <ng-container
      *ngIf="
        moviesList$
          | async
          | search: search:genreFilter:languageFilter as result
        "
    >
      <p
        class="lead my-2 p-2 rounded alert-danger"
        *ngIf="result.length < 1 || !result"
      >
        No result found with
        <span class="text-danger"
          >{{ search }}{{ " " + languageFilter
            }}{{ " " + genreFilter }}</span>
      </p>
      <div
        class="col-4 px-2 position-relative"
        *ngFor="let movie of result"
      >
        <div
          class="image-card position-relative rounded-5 overflow-hidden"
        >
          <img
            [src]="movie.image"
            class="card-img-top"
            height="400"
            width="280"
            [alt]="movie.name"
          />
          <!-- <svg
            class="bd-placeholder-img card-img-top"
            width="100%"
            height="350"
            xmlns="http://www.w3.org/2000/svg"
            role="img"
            aria-label="Placeholder: Thumbnail"
            preserveAspectRatio="xMidYMid slice"
            focusable="false"
          >
            <title>Placeholder</title>
            <rect width="100%" height="100%" fill="#55595c"></rect>
          </svg-->

```

```

</svg> -->
<div
  class="
    image-release
    position-absolute
    bottom-0
    start-0
    bg-dark
    text-white
    w-100
    text-center
    py-2
  "
>
  {{ formatRelease(movie.release) }}
</div>
</div>
<div class="card-body text-center">
  <h2 class="card-title fs-4 mb-0">
    <a
      class="stretched-link"
      routerLink="../movie/{{ movie.id }}"
      >{{ movie.name | uppercase }}</a>
    >
  </h2>
  <h3 class="card-text text-muted">
    {{ movie.language | titlecase }}
  </h3>
</div>
</div>
</ng-container>
</div>
</div>
</div>
</div>
</div>

```

My Bookings:

```

<div class="col-10 mx-auto my-4 h-80vh">
  <mat-toolbar color="primary" class="rounded text-center">
    <h1
      class="text-center mx-auto"
      [ngClass]="present ? '' : 'text-danger h-80vh'"
    >
      {{ heading }}
    </h1>
  </mat-toolbar>

```

```

<mat-card *ngIf="present">
  <div class="row g-0 col-12">
    <div class="col-2 p-2">
      <div
        class="my-2 col-12 text-start"
        *ngFor="let booking of allBookings$ | async; index as i"
      >
        <input
          type="radio"
          autocomplete="off"
          [checked]="booking.id == selectedBookingId"
          class="btn-check"
          [id]="'booking-' + i"
          name="booking"
          (change)="onBookingChange(booking.id!)"
        />
        <label
          class="btn btn-sm w-100 clearfix"
          [for]="'booking-' + i"
          [ngClass]="{
            'btn-dark text-white': booking.id == selectedBookingId,
            'btn-info': booking.id != selectedBookingId
          }"
        >
          <span class="d-inline-block float-start">{{
            "Booking " + (i + 1)
          }}</span>
          <span class="d-inline-block float-end">{{ booking.bookedOn }}</span>
        </label>
      </div>
    </div>
    <div class="col-10 px-2">
      <div class="row g-0 m-3 p-2 shadow-sm border">
        <div
          class="
            col-4
            mx-auto
            text-center
            px-1
            position-relative
            overflow-hidden
          "
        >
          <img
            [src]="movieImage$ | async"
            [alt]="movieName$ | async"
            height="400"

```



```

        width="300"
      />
    <div
      class="
        movie-name
        position-absolute
        w-100
        py-2
        fs-5
        bg-dark
        text-white
        start-0
        bottom-0
      "
    >
      {{ movieName$ | async | uppercase }}
    </div>
  </div>
  <div class="col-8 px-2 details h-100 my-auto">
    <table class="table ms-3">
      <thead>
        <tr>
          <th
            scope="col"
            colspan="2"
            class="text-center fs-4 text-capitalize"
          >
            {{ auditoriumName$ | async }}
          </th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <th scope="row">Movie Language</th>
          <td>
            <h1 class="m-0 d-inline-block">
              {{ movieLanguage$ | async }}
            </h1>
          </td>
        </tr>
        <tr>
          <th scope="row">Total seats</th>
          <td>
            <h1 class="m-0 d-inline-block">
              {{ noOfTickets$ | async }}
            </h1>
          </td>
        </tr>
      </tbody>
    </table>
  </div>

```

```

<tr>
  <th scope="row">Seat No.</th>
  <td>
    <h1 class="m-0 d-inline-block">
      {{ (selectedSeats$ | async)?.join(", ") }}
    </h1>
  </td>
</tr>
<tr>
  <th scope="row">Price</th>
  <td>
    <h1 class="m-0 d-inline-block">
      {{ amount$ | async | currency: "INR" }}
    </h1>
  </td>
</tr>
<tr>
  <th scope="row">Date</th>
  <td>
    <h1 class="m-0 d-inline-block">
      {{ dateOfBooking$ | async | date: "mediumDate" }}
    </h1>
  </td>
</tr>
<tr>
  <th scope="row">Time</th>
  <td>
    <h1 class="m-0 d-inline-block">
      {{ formatTime((showTiming$ | async)!) }}
    </h1>
  </td>
</tr>
<tr>
  <th scope="row">Status</th>
  <td>
    <span class="text-muted text-success">Confirmed</span>
  </td>
</tr>
</tbody>
</table>
</div>
</div>
</div>
</div>
</mat-card>
</div>

```

Profile:

```
<div class="h-80vh">
  <div class="col-10 mx-auto my-4">
    <mat-toolbar color="primary" class="rounded text-center"
      >Your profile</mat-toolbar
    >
  </div>
  <mat-card class="col-10 mx-auto">
    <table class="table">
      <tbody>
        <tr>
          <th scope="row">Name</th>
          <td>{{ (user | async)?.name }}</td>
        </tr>
        <tr>
          <th scope="row">Email</th>
          <td>{{ (user | async)?.email }}</td>
        </tr>
        <tr>
          <th scope="row">Mobile</th>
          <td>{{ (user | async)?.mobile }}</td>
        </tr>
        <tr>
          <th scope="row">Gender</th>
          <td>{{ (user | async)?.gender }}</td>
        </tr>
      </tbody>
    </table>
  </mat-card>
</div>
```

Register:

```
<main class="px-3 my-auto">
  <p
    class="lead mb-2 p-2 rounded"
    [ngClass]="(alertDanger$ | async) ? 'alert-danger' : 'alert-success'"
    *ngIf="showAlert$ | async"
  >
    {{ alertMessage$ | async }}
  </p>
  <h1 class="fs-2 py-4">Register Here</h1>

  <div class="example-container">
    <form
      class="row w-100 g-0"
      [formGroup]="registerForm"
      (ngSubmit)="onSubmit()"
    >
```

```

>
<!-- Email Field -->
<div class="col-12 mb-2 px-lg-1">
  <mat-form-field appearance="outline" class="d-block text-white">
    <mat-label>Enter your Email</mat-label>
    <input matInput type="email" formControlName="email" class="fs-5" />
    <mat-hint *ngIf="email.pending" class="text-warning">
      >Checking For uniqueness...</mat-hint>
    >
    <mat-error *ngIf="emailErrors">{{ emailErrors }}</mat-error>
  </mat-form-field>
</div>

<div class="col-sm-12 col-md-12 col-lg-6 mb-2 px-lg-1">
  <mat-form-field appearance="outline" class="d-block text-white">
    <mat-label>Enter your name</mat-label>
    <input matInput type="text" formControlName="name" class="fs-5" />
    <mat-error *ngIf="nameErrors">{{ nameErrors }}</mat-error>
  </mat-form-field>
</div>

<div class="col-sm-12 col-md-12 col-lg-6 mb-2 px-lg-1">
  <mat-form-field appearance="outline" class="d-block text-white">
    <mat-label>Enter your Mobile</mat-label>
    <span matPrefix>+91 &nbsp;  </span>
    <input
      matInput
      type="text"
      formControlName="mobile"
      class="fs-5"
    />
    <mat-hint *ngIf="mobile.pending" class="text-warning">
      >Checking For uniqueness...</mat-hint>
    >
    <mat-error *ngIf="mobileErrors">{{ mobileErrors }}</mat-error>
  </mat-form-field>
</div>

<div class="col-sm-12 col-md-12 col-lg-6 mb-2 px-lg-1">
  <mat-form-field appearance="outline" class="d-block text-white">
    <mat-label>Enter your password</mat-label>
    <input
      matInput
      [type]="hidePassword ? 'password' : 'text'"
      formControlName="password"
      class="fs-5"
    />
    <mat-error *ngIf="passwordErrors">{{ passwordErrors }}</mat-error>
    <button

```

```

    mat-icon-button
    matSuffix
    (click)="hidePassword = !hidePassword"
    [attr.aria-label]="Hide password"
    [attr.aria-pressed]="hidePassword"
  >
    <mat-icon>{{
      hidePassword ? "visibility_off" : "visibility"
    }}</mat-icon>
  </button>
</mat-form-field>
</div>

<div class="col-sm-12 col-md-12 col-lg-6 mb-2 px-lg-1">
  <mat-form-field appearance="outline" class="d-block text-white">
    <mat-label>Select Gender</mat-label>
    <mat-select formControlName="gender" class="text-white fs-5">
      <mat-option *ngFor="let sex of genders" [value]="sex.name">
        {{ sex.name }}
      </mat-option>
    </mat-select>
    <mat-error *ngIf="passwordErrors">{{ passwordErrors }}</mat-error>
  </mat-form-field>
</div>

<div class="col-lg-12 col-md-12 mb-2">
  <mat-checkbox class="example-margin" formControlName="terms">
    >Agree to terms & conditions</mat-checkbox>
  >
  <mat-error *ngIf="termsErrors">{{ termsErrors }}</mat-error>
</div>

<button
  mat-raised-button
  [color]="!registerForm.valid ? 'accent' : 'primary'"
  class="col-12"
  type="submit"
>
  Register
</button>
</form>
</div>
</main>

```

Add Movie To Show Form:

```

<div class="wrapper">
  <h1 class="text-center mb-3 p-2 rounded border border-2 shadow-sm">

```

Add Movie To Show

</h1>

```
<form class="example-form p-4" [formGroup]="movieShowForm">
  <mat-form-field class="d-block w-100 text-dark" appearance="outline">
    <mat-label>Select Movie</mat-label>
    <mat-select
      aria-label="State"
      [formControl]="movieId"
      (click)="movieId.reset()"
      (selectionChange)="onMovieChange($event)"
    >
      <mat-option
        *ngFor="let movie of filteredMovies | async"
        [value]="movie.id"
        class="h-auto py-1"
      >
        <!-- (onSelectionChange)="onMovieChange($event, movie.id)" -->
        <img
          class="example-option-img me-2 rounded"
          aria-hidden
          [src]="movie.image"
          height="120"
          width="120"
        />
        <span class="me-1">{{ movie.name | uppercase }}</span> |
        <span class="me-1">{{ movie.language | titlecase }}</span> |
        <small class="me-1"
          >Release: {{ movie.release | date: "fullDate" }}</small
        >
        |
        <small class="me-1"
          >Added: {{ movie.addedOn | date: "fullDate" }}</small
        >
      </mat-option>
    </mat-select>
    <mat-error *ngIf="movieIdErrors">{{ movieIdErrors }}</mat-error>
  </mat-form-field>

  <mat-form-field appearance="outline" class="d-block w-100 text-dark">
    <mat-label>Enter a date range</mat-label>
    <mat-date-range-input
      [formGroup]="range"
      [rangePicker]="picker"
      [min]="startDate"
      [max]="endDate"
    >
    <input matStartDate formControlName="start" placeholder="Start date" />
```

```

    <input matEndDate formControlName="end" placeholder="End date" />
  </mat-date-range-input>
  <mat-datepicker-toggle matSuffix [for]="picker"></mat-datepicker-toggle>
  <mat-date-range-picker #picker></mat-date-range-picker>
  <mat-error class="d-inline-block mx-1" *ngIf="startDateErrors">{{
    startDateErrors
  }}</mat-error>
  <mat-error class="d-inline-block mx-1" *ngIf="endDateErrors">{{
    endDateErrors
  }}</mat-error>
  <!-- <mat-error *ngIf="range.controls.start.hasError('matStartDateInvalid')"
    >Invalid start date</mat-error>
  >
  <mat-error *ngIf="range.controls.end.hasError('matEndDateInvalid')"
    >Invalid end date</mat-error>
  > -->
</mat-form-field>
<fieldset>
  <legend class="lead">Price details</legend>
  <div class="row g-0 justify-content-around">
    <mat-form-field
      appearance="outline"
      class="d-block col-4 px-1 text-dark"
    >
      <mat-label>Gold Section</mat-label>
      <input type="number" matInput formControlName="gold" />
      <mat-error *ngIf="goldPriceErrors">{{ goldPriceErrors }}</mat-error>
    </mat-form-field>
    <mat-form-field
      appearance="outline"
      class="d-block col-4 px-1 text-dark"
    >
      <mat-label>Silver Section</mat-label>
      <input type="number" matInput formControlName="silver" />
      <mat-error *ngIf="silverPriceErrors">{{
        silverPriceErrors
      }}</mat-error>
    </mat-form-field>
    <mat-form-field
      appearance="outline"
      class="d-block col-4 px-1 text-dark"
    >
      <mat-label>General Section</mat-label>
      <input type="number" matInput formControlName="general" />
      <mat-error *ngIf="generalPriceErrors">{{
        generalPriceErrors
      }}</mat-error>
    </mat-form-field>
  </div>
</fieldset>

```

```

        </div>
    </fieldset>
</form>
<button mat-raised-button (click)="onCancel()" class="me-2">Cancel</button>
<button
    mat-raised-button
    (click)="onSubmit()"
    [disabled]="!movieShowForm.valid"
    color="primary"
    class="ms-2"
>
    Submit
</button>
</div>

```

Payment Form:

```

<div class="wrapper p-5">
    <div class="text-center mb-3 p-2 rounded border border-2 shadow-sm">
        <h1 class="text-center d-inline-block my-2">Payment Gateway</h1>
        (<span class="text-danger d-inline-block my-2">do not refresh the page</span>
        >)
    </div>
    <div class="my-auto h-70vh row g-0 justify-content-around">
        <div class="col-6 px-2 mx-auto order-2">
            <form [formGroup]="paymentForm" class="example-form p-4">
                <mat-form-field appearance="outline" class="d-block w-100 text-dark">
                    <mat-label>Card Number</mat-label>
                    <input
                        matInput
                        formControlName="cardNumber"
                        type="tel"
                        #ccNumber
                        class="fs-3 bolder col-12"
                        (keyup)="creditCardNumberSpacing()"
                    />
                    <mat-hint>16 digit card number</mat-hint>
                    <mat-error *ngIf="cardNumberErrors">{{ cardNumberErrors }}</mat-error>
                </mat-form-field>

                <div class="row g-0 justify-content-around">
                    <mat-form-field
                        appearance="outline"
                        class="d-block text-dark col-sm-12 col-lg-4 px-1"
                    >
                        <mat-label>Month</mat-label>
                        <mat-select formControlName="cardExpiryMonth">
                            <mat-option *ngFor="let month of tempMonths" [value]="month">

```



```

        {{ month }}
      </mat-option>
    </mat-select>
    <mat-hint>Select card expiry month</mat-hint>
    <mat-error *ngIf="monthErrors">{{ monthErrors }}</mat-error>
  </mat-form-field>
  <mat-form-field
    appearance="outline"
    class="d-block text-dark col-sm-12 col-lg-4 px-1"
  >
    <mat-label>Year</mat-label>
    <mat-select formControlName="cardExpiryYear">
      <mat-option *ngFor="let year of tempYears" [value]="year">
        {{ year }}
      </mat-option>
    </mat-select>
    <mat-hint>select card expiry year</mat-hint>
    <mat-error *ngIf="yearErrors">{{ yearErrors }}</mat-error>
  </mat-form-field>
  <mat-form-field
    appearance="outline"
    class="d-block text-dark col-sm-12 col-lg-4 px-1"
  >
    <mat-label>CVV</mat-label>
    <input
      matInput
      [type]="cvvHide ? 'password' : 'text'"
      formControlName="cardCVV"
    />
    <button
      mat-icon-button
      matSuffix
      (click)="cvvHide = !cvvHide"
      [attr.aria-label]=" 'Hide password' "
      [attr.aria-pressed]="cvvHide"
    >
      <mat-icon>{{
        cvvHide ? "visibility_off" : "visibility"
      }}</mat-icon>
    </button>
    <mat-error *ngIf="cvvErrors">{{ cvvErrors }}</mat-error>
  </mat-form-field>
</div>

<button
  mat-raised-button
  (click)="onSubmit()"
  [disabled]="!paymentForm.valid"

```

```

        color="primary"
        class="col-12 my-3"
    >
        Pay {{ tempScreen.amount | currency: "INR" }}
    </button>
</form>
</div>
<div class="col-6 px-2 mx-auto order-1">
    <table class="table">
        <thead>
            <tr>
                <th scope="col" colspan="2">Booking Details</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Auditorium</td>
                <th scope="row">{{ selectedMembers.auditoriumName }}</th>
            </tr>
            <tr>
                <td>Show</td>
                <th scope="row">
                    {{ selectedMembers.showName }}
                </th>
            </tr>
            <tr>
                <td>Show Timing</td>
                <th scope="row">
                    {{ formatTime(selectedMembers.showTime) }}
                </th>
            </tr>
            <tr>
                <td>Movie Name</td>
                <th scope="row">{{ selectedMembers.movieName | uppercase }}</th>
            </tr>
            <tr>
                <td>Movie Lang</td>
                <th scope="row">{{ selectedMembers.movieLanguage }}</th>
            </tr>
            <tr>
                <td>Date</td>
                <th scope="row">{{ selectedMembers.date | date: "mediumDate" }}</th>
            </tr>
        </tbody>
    </table>
</div>
</div>
</div>

```

Screen:

```
<div class="screen-container w-100 py-3 bg-dark text-white">
  <span class="d-inline-block text-warning mx-auto text-center py-2 w-100">
    >NOTE: do not refresh the page</span>
  >
  <div class="my-auto row g-0 align-content-center">
    <div class="ticket-details mb-3 row g-0 justify-content-between">
      <div class="col-4 text-center">
        Movie: &nbsp;
        <span class="lead text-white">{{
          selectMembers.movieName | uppercase
        }}</span>
      </div>

      <div class="col-4 text-center">
        Time: &nbsp;
        <span class="lead">{{ formatTime(selectMembers.showTime) }}</span>
      </div>

      <div class="col-4 text-center">
        Date: &nbsp;
        <span class="lead">{{ selectMembers.date | date: "fullDate" }}</span>
      </div>
    </div>

    <div class="ticket-details mb-3 row g-0 justify-content-between">
      <div class="col-4 text-center">
        Seats Selected: &nbsp;
        <span class="lead text-danger">{{ getSelectedSeats() }}</span>
      </div>

      <div class="col-4 text-center">
        Amount: &nbsp;
        <span class="lead">{{ totalAmount }}</span>
      </div>

      <div class="col-4 text-center">
        <button
          mat-raised-button
          type="submit"
          [disabled]="seatsToBeSelected != 0"
          (click)="onProceed()"
        >
          Proceed
        </button>
      </div>
    </div>
  </div>
</div>
```

</div>

<!-- <div class="row g-0 text-center">

<div class="col-4 text-center">

<mat-icon

class="fs-sm-5 fs-lg-3 w-auto h-auto text-danger"

aria-hidden="false"

aria-label="Example home icon"

>chair

</mat-icon>

- Booked

</div>

<div class="col-4 text-center">

<mat-icon

class="fs-sm-5 fs-lg-3 w-auto h-auto text-white"

aria-hidden="false"

aria-label="Example home icon"

>chair

</mat-icon>

- Avaliable

</div>

<div class="col-4 text-center">

<mat-icon

class="fs-sm-5 fs-lg-3 w-auto h-auto text-info"

aria-hidden="false"

aria-label="Example home icon"

>chair

</mat-icon>

- Your Selection

</div>

</div> -->

<div

class="screen-layout position-relative w-100 bg-dark text-white p-sm-0"

>

<mat-card class="bg-dark text-white text-center">

<mat-list class="bg-dark text-white">

<ng-container

*ngFor="let item of tempSeatColumns.reverse(); index as i"

>

<h3 class="text-danger m-1" *ngIf="i == 7">

<!-- EXECUTIVE ₹200.00 -->

EXECUTIVE {{ generalPrice\$ | async | currency: "INR" }}

</h3>

<h3 class="text-danger m-1" *ngIf="i == 3">

SILVER {{ silverPrice\$ | async | currency: "INR" }}

</h3>

<h3 class="text-danger m-1" *ngIf="i == 0">

```

    GOLD {{ goldPrice$ | async | currency: "INR" }}
</h3>
<mat-list-item class="justify-content-center py-1 h-auto px-sm-0">
  <!-- <div class="col-1 text-info fs-3 px-sm-0">{{ item }}</div> -->
  <div
    class="
      row
      col-12
      g-0
      mx-auto
      justify-content-center
      px-sm-0
      text-center
    "
  >
    <div class="col-1 text-center text-info fs-3">
      {{ item }}
    </div>
    <div class="col-auto">
      <ng-container *ngFor="let seat of tempSeatRows; index as i">
        <div
          class="me-sm-1 mx-lg-4 d-inline"
          *ngIf="i == 3 || i == 7"
        ></div>
        <input
          type="checkbox"
          class="btn-check"
          name="{{ item + seat }}"
          [checked]="isAdded(item + seat)"
          [disabled]="isSeatAlreadySelected(item + seat)"
          [id]="item + seat"
          [value]="item + seat"
          (click)="addSeat($event)"
        />
        <label
          [for]="item + seat"
          class="
            col-auto
            p-sm-0
            me-sm-1
            ms-sm-0
            mx-lg-2
            pe-cursor
            h-auto
          "
          [ngClass]="{
            'text-white': !isAdded(item + seat),
            'text-info': isAdded(item + seat),

```

```

        'text-danger': isSeatAlreadySelected(item + seat)
      }"
    >
    <mat-icon
      class="fs-sm-5 fs-lg-3 w-auto h-auto"
      aria-hidden="false"
      aria-label="Example home icon"
    >chair
    </mat-icon>
  </label>
</ng-container>
</div>
</div>
</mat-list-item>
</ng-container>
</mat-list>
</mat-card>
</div>

<div
  class="
    screen
    col-10
    mx-auto
    py-3
    text-white
    bg-danger
    text-center
    mt-sm-1 mt-lg-4
  "
>
  Screen is this way
</div>
</div>
</div>

```

Select Members:

```

<mat-card>
  <form [formGroup]="ticketsForm" (ngSubmit)="proceed()">
    <mat-horizontal-stepper [linear]="true" labelPosition="bottom" #stepper>
      <mat-step [stepControl]="ticketsForm.get('auditoriumName')!">
        <ng-template matStepLabel>Select the Cinema Hall</ng-template>
        <mat-form-field class="d-block w-100 mt-2">
          <mat-label>Cinema Hall Name</mat-label>
          <mat-select class="text-dark" formControlName="auditoriumName">
            <mat-option
              *ngFor="let hall of allAuditoriums$ | async"

```

```

      [value]="hall.name"
      (onSelectionChange)="onAuditoriumSelect(hall.id!, hall.name!)"
    >
      {{ hall.name }}
    </mat-option>
  </mat-select>
  <mat-error *ngIf="auditoriumErrors">{{ auditoriumErrors }}</mat-error>
</mat-form-field>
</div>
<button mat-button matStepperNext type="button">Next</button>
</div>
</mat-step>

<mat-step
  [stepControl]="ticketsForm.get('showName')!"
  label="Select the Show Timing"
>
  <mat-form-field class="d-block w-100 mt-2">
    <mat-label class="text-dark">Show Timing</mat-label>
    <mat-select class="text-dark" formControlName="showName">
      <mat-option
        *ngFor="let show of allShows$ | async"
        [value]="show.name"
        (onSelectionChange)="onShowSelect(show.id!, show.name!)"
      >
        {{ show.name + " | Time: " + formatTime(show.startTime) }}
      </mat-option>
    </mat-select>
    <mat-error *ngIf="showErrors">{{ showErrors }}</mat-error>
  </mat-form-field>
  <div>
    <button mat-button matStepperPrevious type="button">Back</button>
    <button mat-button matStepperNext type="button">Next</button>
  </div>
</mat-step>

<mat-step
  [stepControl]="ticketsForm.get('date')!"
  label="Select the Date"
>
  <mat-form-field class="d-block w-100 mt-2">
    <mat-label class="text-dark">Choose a date</mat-label>
    <input
      class="text-dark"
      formControlName="date"
      (dateChange)="onDateSelect($event)"
      matInput
      [matDatepicker]="picker"

```

```

        [min]="startDate$ | async"
        [max]="endDate$ | async"
    />
    <mat-datepicker-toggle
        matSuffix
        [for]="picker"
    ></mat-datepicker-toggle>
    <mat-datepicker #picker></mat-datepicker>
    <mat-error *ngIf="dateErrors">{{ dateErrors }}</mat-error>
</mat-form-field>
<div>
    <button mat-button matStepperPrevious type="button">Back</button>
    <button mat-button matStepperNext type="button">Next</button>
</div>
</mat-step>

<mat-step
    [stepControl]="ticketsForm.get('seats')!"
    label="Select No.of seats"
>
    <div
        class="col-12 my-4 text-center"
        [ngClass]="selectedSeats! > 0 ? 'text-primary' : 'text-danger'"
    >
        <mat-icon
            class="fs-1"
            aria-hidden="false"
            aria-label="Example home icon"
        >
            {{ icon }}
        </mat-icon>
    </div>
    <div *ngIf="selectedSeats! < 1" class="text-center text-danger">
        No Seats available, please select different show timing
    </div>
    <div
        *ngIf="selectedSeats! > 0"
        class="row g-0 justify-content-around mb-4"
    >
        <div
            class="col-auto mx-2"
            *ngFor="let seat of availableSeats$ | async"
        >
            <input
                type="radio"
                class="btn-check"
                formControlName="seats"
                [checked]="seat == selectedSeats"
            >

```



```

        (change)="onSeatsChange(seat)"
        [id]="seat"
        [value]="seat"
    />
    <label
        [for]="seat"
        class="px-3 py-2 rounded-circle border border-4 pe-cursor fs-5"
        [ngClass]="
            seat == selectedSeats!
            ? 'text-success, border-success'
            : 'text-warning, border-secondary'
        "
    >
        {{ seat }}
    </label>
</div>
</div>
<div>
    <button mat-button matStepperPrevious type="button">Back</button>
    <button
        mat-button
        matStepperNext
        [disabled]="selectedSeats! < 1"
        type="button"
    >
        next
    </button>
</div>
</mat-step>
<mat-step>
    <ng-template matStepLabel>Review</ng-template>
    <table class="table table-striped">
        <tr>
            <th scope="col">Auditorium</th>
            <td>{{ ticketsForm.get("auditoriumName")?.value! }}</td>
        </tr>
        <tr>
            <th scope="col">Show</th>
            <td>
                {{
                    ticketsForm.get("showName")?.value! +
                    " | Time: " +
                    formatTime(selectMembers?.showTime!)
                }}
            </td>
        </tr>
        <tr>
            <th scope="col">Date</th>

```

```

        <td>{{ ticketsForm.get("date")?.value! | date: "fullDate" }}</td>
    </tr>
    <tr>
        <th scope="col">Seats</th>
        <td>{{ ticketsForm.get("seats")?.value! }}</td>
    </tr>
</table>
<div>
    <button mat-button matStepperPrevious type="button">Back</button>
    <button mat-button color="primary" [disabled]="!ticketsForm.valid">
        Proceed
    </button>
</div>
</mat-step>
</mat-horizontal-stepper>
</form>
</mat-card>

```

Show Form:

```

<div class="wrapper">
    <h1 class="text-center mb-3 p-2 rounded border border-2 shadow-sm">
        Add New Show
    </h1>
    <form class="example-form p-4" [formGroup]="showForm">
        <mat-form-field class="d-block w-100 text-dark" appearance="outline">
            <mat-label>Show Name</mat-label>
            <input matInput formControlName="name" list="show-name" />
            <datalist id="show-name">
                <option *ngFor="let show of showNames" [value]="show">
                    {{ show }}
                </option>
            </datalist>
            <mat-error *ngIf="nameErrors">
                {{ nameErrors }}
            </mat-error>
        </mat-form-field>

        <mat-form-field class="d-block w-100 text-dark" appearance="outline">
            <mat-label>Show Timing</mat-label>
            <input
                type="time"
                matInput
                placeholder="1 H 20M"
                formControlName="startTime"
            />
            <mat-error *ngIf="startTimeErrors" color="accent">
                >{{ startTimeErrors }}
            </mat-error>
        </mat-form-field>
    </form>
</div>

```

```

    </mat-error>
  </mat-form-field>
</form>
<button mat-raised-button (click)="onCancel()" class="me-2">Cancel</button>
<button
  mat-raised-button
  (click)="onSubmit()"
  [disabled]="!showForm.valid"
  color="primary"
  class="ms-2"
>
  Submit
</button>
</div>

```

INDEX.HTML

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <title>My Movie Plan</title>
    <base href="/" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <link rel="icon" type="image/x-icon" href="favicon.ico" />

    <!-- Bootstrap Css -->
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-
+0n0xVW2eSR5OomGNYDnhzAbDsOXxcvSN1TPprVMTNDbiYZCxYbOOI7+AMvyTG2x"
      crossorigin="anonymous"
    />

    <!-- Animated CSS -->
    <!-- <link
      rel="stylesheet"
      href="https://cdnjs.cloudflare.com/ajax/libs/animate.css/4.1.1/animate.min.css"
      crossorigin="anonymous"
    /> -->
    <link rel="preconnect" href="https://fonts.gstatic.com" />
    <link

href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap"
      rel="stylesheet"
    />
    <link

```

```

    href="https://fonts.googleapis.com/icon?family=Material+Icons"
    rel="stylesheet"
  />
  <link rel="preconnect" href="https://fonts.gstatic.com" />
  <link

href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap"
  rel="stylesheet"
  />
  <link
    href="https://fonts.googleapis.com/icon?family=Material+Icons"
    rel="stylesheet"
  />
  <link rel="preconnect" href="https://fonts.gstatic.com" />
  <link

href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap"
  rel="stylesheet"
  />
  <link
    href="https://fonts.googleapis.com/icon?family=Material+Icons"
    rel="stylesheet"
  />
</head>
<body class="mat-typography">
  <app-root></app-root>

  <script
    src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-
gtEjrD/SeCtmISkJKNUaaKMoLD0//EIJ19smozuHV6z3lehds+3Ulb9Bn9Plx0x4"
    crossorigin="anonymous"
  ></script>

  <script type="text/javascript">
    const myCarousel = document.querySelector("#movies-carousel");
    if (myCarousel) {
      const carousel = new bootstrap.Carousel(myCarousel, {
        interval: 2000,
        wrap: false,
      });
    }
  </script>
</body>
</html>

```

DOCKER FILE:

FROM node:current-alpine3.11 as build-stage

RUN mkdir -p /app

WORKDIR /usr/src/app

COPY package.json package-lock.json ./

RUN npm install

COPY ..

RUN npm run build --prod

CMD ["npm", "start"]

FROM nginx:latest-alpine as prod-stage

COPY --from=build-stage /usr/src/app/dist/my-movie-plan /user/share/nginx/html

COPY nginx.conf /etc/nginx/conf.d/default.conf

EXPOSE 4040

JENKINS FILES:

```
pipeline {
  agent any
  stages {
    stage('git repo clone') {
      steps {
        git branch: 'main', url: 'https://github.com/skv0702/MyMoviePlan.git'
      }
    }
    // stage('clean') {
    //   steps {
    //     sh "mvn clean"
    //   }
    // }
    // stage('package') {
    //   steps {
    //     sh "mvn package"
    //   }
    // }
    // stage('docker build') {
    //   steps {
    //     sh "docker build -t employee-management ."
    //   }
    // }
```

```

// }
stage('docker compose build') {
    steps {
        sh "docker-compose build"
    }
}

stage('docker compose start') {
    steps {
        sh "docker-compose up"
    }
}
}
}

```

KARMA CONFIG:

// Karma configuration file, see link for more information

// <https://karma-runner.github.io/1.0/config/configuration-file.html>

```

module.exports = function (config) {
    config.set({
        basePath: "",
        frameworks: ['jasmine', '@angular-devkit/build-angular'],
        plugins: [
            require('karma-jasmine'),
            require('karma-chrome-launcher'),
            require('karma-jasmine-html-reporter'),
            require('karma-coverage'),
            require('@angular-devkit/build-angular/plugins/karma')
        ],
        client: {
            jasmine: {
                // you can add configuration options for Jasmine here
                // the possible options are listed at https://jasmine.github.io/api/edge/Configuration.html
                // for example, you can disable the random execution with `random: false`
                // or set a specific seed with `seed: 4321`
            },
            clearContext: false // leave Jasmine Spec Runner output visible in browser
        },
        jasmineHtmlReporter: {
            suppressAll: true // removes the duplicated traces
        },
        coverageReporter: {
            dir: require('path').join(__dirname, './coverage/my-movie-plan'),
            subdir: '.',
            reporters: [
                { type: 'html' },
                { type: 'text-summary' }
            ]
        }
    })
}

```

```

    },
    reporters: ['progress', 'kjhtml'],
    port: 9876,
    colors: true,
    logLevel: config.LOG_INFO,
    autoWatch: true,
    browsers: ['Chrome'],
    singleRun: false,
    restartOnFileChange: true
  });
};

```

BACK END

CONFIG:

Initial Data:

```
package com.MyMoviePlan.config;
```

```

import com.MyMoviePlan.service.UserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.security.crypto.password.PasswordEncoder;
import org.springframework.stereotype.Component;

```

```
@Component
```

```
public class InitialData implements CommandLineRunner {
```

```
    @Autowired
```

```
    private UserService service;
```

```
    @Autowired
```

```
    private PasswordEncoder passwordEncoder;
```

```
    @Override
```

```
    public void run(String... args) throws Exception {
```

```

//    final UserEntity super_admin = new UserEntity("Shubham", "shubham@gmail.com",
//        "1111111111", "Male", passwordEncoder.encode("super"), true,
//        true, true, true, true,
//        ROLE_SUPER_ADMIN);
//
//    final UserEntity admin = new UserEntity("raj", "raj@gmail.com",
//        "1111111111", "Male", passwordEncoder.encode("admin"), true,
//        true, true, true, true,
//        ROLE_ADMIN);

```

```
//
//    final UserEntity user = new UserEntity("rohit", "rohit@gmail.com",
//        "111111111", "Male", passwordEncoder.encode("user"), true,
//        true, true, true, true,
//        ROLE_USER);
//
//    service.save(super_admin);
//    service.save(admin);
//    service.save(user);
//
//
}
```

CONTROLLERS:

Auditorium Controller:

```
package com.MyMoviePlan.controller;
```

```
import com.MyMoviePlan.entity.*;
import com.MyMoviePlan.exception.AuditoriumNotFoundException;
import com.MyMoviePlan.exception.BookingNotFoundException;
import com.MyMoviePlan.exception.MovieShowNotFoundException;
import com.MyMoviePlan.exception.ShowNotFoundException;
import com.MyMoviePlan.model.TicketDetails;
import com.MyMoviePlan.model.UserRole;
import com.MyMoviePlan.repository.*;
import com.MyMoviePlan.service.UserService;
import lombok.AllArgsConstructor;
import org.springframework.security.access.prepost.PreAuthorize;
import org.springframework.web.bind.annotation.*;
```

```
import java.util.List;
import java.util.stream.Collectors;
```

```
@CrossOrigin
@RestController
@RequestMapping("/auditorium")
@AllArgsConstructor
public class AuditoriumController {
```

```
    private final ShowRepository show;
    private final UserService service;
    private final BookingRepository booking;
    private final MovieRepository movie;
    private final MovieShowsRepository movieShow;
    private final AuditoriumRepository auditorium;
```

```
@GetMapping({"/", "all"})
public List<AuditoriumEntity> findAllAuditoriums() {
```



```

        return this.auditorium.findAll();
    }

    @GetMapping("{auditorium_id}")
    @PreAuthorize("hasAuthority('WRITE')")
    public AuditoriumEntity findAuditoriumById(@PathVariable final int auditorium_id) {
        return this.auditorium.findById(auditorium_id)
            .orElseThrow(() ->
                new AuditoriumNotFoundException("Auditorium with id: " + auditorium_id + "
not found."));
    }

    @PostMapping("add")
    @PreAuthorize("hasAuthority('WRITE')")
    public AuditoriumEntity saveAuditorium(@RequestBody final AuditoriumEntity auditorium)
    {
        return this.auditorium.save(auditorium);
    }

    @PutMapping("update")
    @PreAuthorize("hasAuthority('UPDATE')")
    public AuditoriumEntity updateAuditorium(@RequestBody final AuditoriumEntity
auditorium) {
        return this.auditorium.save(auditorium);
    }

    @DeleteMapping("delete/{auditorium_id}")
    @PreAuthorize("hasAuthority('DELETE')")
    public void deleteAuditorium(@PathVariable final int auditorium_id) {
        this.auditorium.deleteById(auditorium_id);
    }

    /*
     * ===== Show Controller
=====
    */

    @GetMapping("{auditorium_id}/show/{show_id}")
    public ShowEntity findShowById(@PathVariable final int auditorium_id,
        @PathVariable final int show_id) {
        return this.findAuditoriumById(auditorium_id).getShows()
            .stream()
            .filter(show -> show.getId() == show_id)
            .findFirst()
            .orElseThrow(() ->
                new ShowNotFoundException("Show with Id: " + show_id + " not found"));
    }

```

```

@GetMapping("{auditorium_id}/show/all")
public List<ShowEntity> findAllShows(@PathVariable final int auditorium_id) {
    return this.findAuditoriumById(auditorium_id).getShows();
}

```

```

@PostMapping("{auditorium_id}/show/add")
@PreAuthorize("hasAuthority('WRITE')")
public ShowEntity saveShow(@PathVariable final int auditorium_id,
                           @RequestBody final ShowEntity show) {
    final AuditoriumEntity auditorium = this.findAuditoriumById(auditorium_id);
    show.setAuditorium(auditorium);
    return this.show.save(show);
}

```

```

@PutMapping("{auditorium_id}/show/update")
@PreAuthorize("hasAuthority('UPDATE')")
public ShowEntity updateShow(@PathVariable final int auditorium_id,
                             @RequestBody final ShowEntity show) {
    final AuditoriumEntity auditorium = this.findAuditoriumById(auditorium_id);
    show.setAuditorium(auditorium);
    return this.show.save(show);
}

```

```

@DeleteMapping("{auditorium_id}/show/delete/{show_id}")
@PreAuthorize("hasAuthority('DELETE')")
public void deleteShow(@PathVariable final int auditorium_id,
                      @PathVariable final int show_id) {
    final ShowEntity show = this.findShowById(auditorium_id, show_id);
    this.show.deleteById(show.getId());
}

```

```

/*
 * ===== Movie Show Controller
=====
 */

```

```

@GetMapping("movie/{movieId}")
public List<AuditoriumEntity> findAuditoriumsByMovieId(@PathVariable final int movieId)
{
    return this.findAllAuditoriums().stream()
        .filter(halls -> halls.getShows().password
            .stream()
            .anyMatch(show -> show.getMovieShows()
                .stream()
                .anyMatch(m_show -> m_show.getMovieId() == movieId)))
        .collect(Collectors.toList());
}

```

```

    @GetMapping("{auditorium_id}/movie/{movieId}")
    public List<ShowEntity> findShowsByMovieId(@PathVariable final int auditorium_id,
    @PathVariable final int movieId) {
        return this.findAllShows(auditorium_id).stream()
            .filter(show -> show.getMovieShows()
                .stream()
                    .anyMatch(m_show -> m_show.getMovieId() == movieId))
            .collect(Collectors.toList());
    }

    @GetMapping("{auditorium_id}/show/{show_id}/movie-show/all")
    public List<MovieShowsEntity> findAllMovieShows(@PathVariable final int auditorium_id,
        @PathVariable final int show_id) {
        return this.findShowById(auditorium_id, show_id)
            .getMovieShows();
    }

    @GetMapping("{auditorium_id}/show/{show_id}/movie-show/{movie_show_id}")
    public MovieShowsEntity findMovieShowById(@PathVariable final int auditorium_id,
        @PathVariable final int show_id,
        @PathVariable final int movie_show_id) {
        return this.findShowById(auditorium_id, show_id)
            .getMovieShows()
            .stream()
            .filter(movie_show -> movie_show.getId() == movie_show_id)
            .findFirst()
            .orElseThrow(
                () -> new MovieShowNotFoundException("Movie Show with id: "
                    + movie_show_id + " not found"));
    }

    @PostMapping("{auditorium_id}/show/{show_id}/movie-show/add")
    @PreAuthorize("hasAuthority('WRITE')")
    public MovieShowsEntity saveMovieShow(@PathVariable final int auditorium_id,
        @PathVariable final int show_id,
        @RequestBody final MovieShowsEntity movieShow) {
        final ShowEntity show = this.findShowById(auditorium_id, show_id);
        final int movieId = movieShow.getMovieId();
        movieShow.setShow(show);
        movieShow.setMovieId(this.movie.findById(movieId).get().getId());
        return this.movieShow.save(movieShow);
    }

    @PutMapping("{auditorium_id}/show/{show_id}/movie-show/update")
    @PreAuthorize("hasAuthority('UPDATE')")
    public MovieShowsEntity updateMovieShow(@PathVariable final int auditorium_id,
        @PathVariable final int show_id,
        @RequestBody final MovieShowsEntity movieShow) {

```

```

        final ShowEntity show = this.findShowById(auditorium_id, show_id);
        movieShow.setShow(show);
        return this.movieShow.save(movieShow);
    }

    @DeleteMapping("{auditorium_id}/show/{show_id}/movie-show/delete/{movie_show_id}")
    @PreAuthorize("hasAuthority('DELETE')")
    public void deleteMovieShow(@PathVariable final int auditorium_id,
                                @PathVariable final int show_id,
                                @PathVariable final int movie_show_id) {
        final MovieShowsEntity movieShow = this.findMovieShowById(auditorium_id, show_id,
movie_show_id);
        this.movieShow.deleteById(movieShow.getId());
    }

    /*
     * ===== Booking Controller
=====
    */

    @GetMapping("{auditorium_id}/show/{show_id}/movie-
show/{movie_show_id}/booking/{booking_id}")
    @PreAuthorize("hasAuthority('READ')")
    public BookingEntity findBookingById(@PathVariable final int auditorium_id,
                                         @PathVariable final int show_id,
                                         @PathVariable final int movie_show_id,
                                         @PathVariable final int booking_id) {
        final MovieShowsEntity movieShow = this.findMovieShowById(auditorium_id, show_id,
movie_show_id);
        return movieShow.getBookings()
            .stream().filter(booking -> booking.getId() == booking_id)
            .findFirst()
            .orElseThrow(() -> new BookingNotFoundException("Booking with id: "
                + booking_id + " not found."));
    }

    @GetMapping("{auditorium_id}/show/{show_id}/movie-
show/{movie_show_id}/booking/all")
    @PreAuthorize("hasAuthority('WRITE')")
    public List<BookingEntity> allBookings(@PathVariable final int auditorium_id,
                                           @PathVariable final int show_id,
                                           @PathVariable final int movie_show_id) {
        final UserEntity user = this.service.getLoggedInUser();
        if (user.getUserRole().equals(UserRole.ROLE_ADMIN) ||
user.getUserRole().equals(UserRole.ROLE_SUPER_ADMIN))
            return this.findMovieShowById(auditorium_id, show_id,
movie_show_id).getBookings();
        else

```

```

        return this.findMovieShowById(auditorium_id, show_id,
movie_show_id).getBookings()
            .stream().filter(booking -> booking.getUserId().equals(user.getId()))
            .collect(Collectors.toList());
    }

    @PostMapping("{auditorium_id}/show/{show_id}/movie-
show/{movie_show_id}/booking/add")
    // @PreAuthorize("hasAuthority('WRITE')")
    public BookingEntity saveBooking(@PathVariable final int auditorium_id,
        @PathVariable final int show_id,
        @PathVariable final int movie_show_id,
        @RequestBody final BookingEntity booking) {
        final MovieShowsEntity moveShow = this.findMovieShowById(auditorium_id, show_id,
movie_show_id);
        booking.setUserId(this.service.getLoggedInUser().getId());
        // booking.setUserId(this.service.findByMobile("8099531318").get().getId());
        booking.setMovieShow(moveShow);
        booking.setBookingDetails(new BookingDetailsEntity(auditorium_id, show_id,
movie_show_id, moveShow.getMovieId()));
        return this.booking.save(booking);
    }

    @PutMapping("{auditorium_id}/show/{show_id}/movie-
show/{movie_show_id}/booking/update")
    @PreAuthorize("hasAuthority('UPDATE')")
    public BookingEntity updateBooking(@PathVariable final int auditorium_id,
        @PathVariable final int show_id,
        @PathVariable final int movie_show_id,
        @RequestBody final BookingEntity booking) {
        final MovieShowsEntity moveShow = this.findMovieShowById(auditorium_id, show_id,
movie_show_id);
        booking.setMovieShow(moveShow);
        return this.booking.save(booking);
    }

    @DeleteMapping("{auditorium_id}/show/{show_id}/movie-
show/{movie_show_id}/booking/delete/{booking_id}")
    @PreAuthorize("hasAuthority('READ')")
    public void deleteBookingById(@PathVariable final int auditorium_id,
        @PathVariable final int show_id,
        @PathVariable final int movie_show_id,
        @PathVariable final int booking_id) {
        final BookingEntity booking = this.findBookingById(auditorium_id, show_id,
movie_show_id, booking_id);
        this.booking.deleteById(booking.getId());
    }

```

```

@GetMapping("ticket-details/{booking_id}")
@PreAuthorize("hasAuthority('READ')")
public TicketDetails getMovieDetails(@PathVariable final int booking_id) {

    final PaymentEntity payment = this.booking.findById(booking_id).get().getPayment();

    final MovieShowsEntity movieShow = this.movieShow.findAll().stream().filter(m_show -
> m_show.getBookings()
        .stream().anyMatch(booking -> booking.getId() == booking_id)).findFirst().get();

    final MovieEntity movie = this.movie.findById(movieShow.getMovieId()).get();

    final ShowEntity showEntity = show.findAll().stream()
        .filter(show -> show.getMovieShows()
            .stream().anyMatch(m_show -> m_show.getId() ==
movieShow.getId())).findFirst().get();

    final AuditoriumEntity auditorium = this.auditorium.findAll().stream().filter(hall ->
hall.getShows()
        .stream().anyMatch(show -> show.getId() == showEntity.getId())).findFirst().get();

    return new TicketDetails(auditorium.getName(), showEntity.getName(),
showEntity.getStartTime(), payment.getAmount(), movie.getName(), movie.getImage(),
movie.getBgImage());
}
}

```

Booking:

```

package com.MyMoviePlan.controller;

import com.MyMoviePlan.entity.BookingDetailsEntity;
import com.MyMoviePlan.entity.BookingEntity;
import com.MyMoviePlan.entity.UserEntity;
import com.MyMoviePlan.exception.BookingNotFoundException;
import com.MyMoviePlan.model.UserRole;
import com.MyMoviePlan.repository.BookingRepository;
import com.MyMoviePlan.service.UserService;
import lombok.AllArgsConstructor;
import org.springframework.security.access.prepost.PreAuthorize;
import org.springframework.web.bind.annotation.*;

import java.util.List;

@CrossOrigin
@RestController
@RequestMapping("/booking")
@AllArgsConstructor

```

```

public class BookingController {

    private final BookingRepository repository;
    private final UserService service;

    @GetMapping("{id}")
    @PreAuthorize("hasAuthority('READ')")
    public BookingEntity findById(@PathVariable final int id) {
        return repository.findById(id)
            .orElseThrow(() -> new BookingNotFoundException("Booking with id: " + id + " not found."));
    }

    @GetMapping("all")
    @PreAuthorize("hasAuthority('READ')")
    public List<BookingEntity> allBookings() {
        final UserEntity user = service.getLoggedInUser();
        if (user.getUserRole().equals(UserRole.ROLE_ADMIN) ||
            user.getUserRole().equals(UserRole.ROLE_SUPER_ADMIN))
            return repository.findAll();
        else return repository.findAllByUserIdOrderByBookedOnAsc(user.getId());
    }

    @GetMapping("{username}/all")
    @PreAuthorize("hasAuthority('READ')")
    public List<BookingEntity> findAllByUserId(@PathVariable String username) {
        if (!(username.contains("-") && username.length() > 10))
            username = service.getUser(username).getId();
        return repository.findAllByUserIdOrderByBookedOnAsc(username);
    }

    @DeleteMapping("delete/{id}")
    @PreAuthorize("hasAuthority('DELETE')")
    public void deleteBooking(@PathVariable final int id) {
        repository.deleteById(id);
    }

    @GetMapping("{id}/details")
    @PreAuthorize("hasAuthority('READ')")
    public BookingDetailsEntity findByIdDetailsId(@PathVariable final int id) {
        return this.findById(id).getBookingDetails();
    }
}

```

Movie:

```
package com.MyMoviePlan.controller;
```

```

import com.MyMoviePlan.entity.MovieEntity;
import com.MyMoviePlan.exception.MovieNotFoundException;
import com.MyMoviePlan.repository.MovieRepository;
import com.MyMoviePlan.repository.MovieShowsRepository;
import lombok.AllArgsConstructor;
import org.springframework.security.access.prepost.PreAuthorize;
import org.springframework.web.bind.annotation.*;

```

```

import java.util.*;

```

```

@CrossOrigin
@RestController
@RequestMapping("/movie")
@AllArgsConstructor
public class MovieController {

```

```

    private final MovieRepository movieRepository;
    private final MovieShowsRepository movieShowsRepository;

```

```

    @GetMapping("/{}/", "all")
    public List<MovieEntity> findAll() {
        return movieRepository.findAll();
    }

```

```

    @GetMapping("/{movie_id}")
    public MovieEntity findById(@PathVariable final int movie_id) {
        return movieRepository.findById(movie_id)
            .orElseThrow(() -> new MovieNotFoundException("Movie with movie_id: " +
movie_id + " not found."));
    }

```

```

    @GetMapping("up-coming")
    public List<MovieEntity> upComing(@RequestParam(value = "records", required = false)
Optional<String> records) {
        List<MovieEntity> movies;
        List<MovieEntity> allMovies;
        if (records.isPresent()) {
            movies = new ArrayList<>();
            allMovies = this.findAll();
            movieShowsRepository.findFewUpComing(Integer.parseInt(records.get()))
                .forEach(m_show -> movies.add(allMovies.stream()
                    .filter(movie -> (movie.getId() == m_show.getMovieId() &&
movie.getRelease().getTime() > new Date().getTime()))
                    .findFirst().orElse(null)));
        } else {
            movies = new ArrayList<>();
            allMovies = this.findAll();
            movieShowsRepository.findAllUpComing()

```



```

        .forEach(m_show -> movies.add(allMovies.stream()
            .filter(movie -> movie.getId() == m_show.getMoviedId() &&
                movie.getRelease().getTime() > new Date().getTime())
            .findFirst().orElse(null)));
    }
//    return (movies.size() > 0 && !movies.contains(null)) ? movies : new ArrayList<>();
    movies.removeAll(Collections.singletonList(null));
    return movies;
}

@GetMapping("now-playing")
public List<MovieEntity> nowPlaying(@RequestParam(value = "records", required = false)
Optional<String> records) {
    List<MovieEntity> movies;
    List<MovieEntity> allMovies;
    if (records.isPresent()) {
        movies = new ArrayList<>();
        allMovies = this.findAll();
        movieShowsRepository.findFewNowPlaying(Integer.parseInt(records.get()))
            .forEach(m_show -> movies.add(allMovies.stream()
                .filter(movie -> movie.getId() == m_show.getMoviedId())
                .findFirst().orElse(null)));
    } else {
        movies = new ArrayList<>();
        allMovies = this.findAll();
        movieShowsRepository.findAllNowPlaying()
            .forEach(m_show -> movies.add(allMovies.stream()
                .filter(movie -> movie.getId() == m_show.getMoviedId())
                .findFirst().orElse(null)));
    }
    movies.removeAll(Collections.singletonList(null));
    return movies;
}

@GetMapping("now-playing-up-coming")
public List<MovieEntity> nowPlayingAndUpComing() {
    final List<MovieEntity> movies = new ArrayList<>();
    final List<MovieEntity> allMovies = this.findAll();
    movieShowsRepository.findAllNowPlayingAndUpComing()
        .forEach(m_show -> movies.add(allMovies.stream()
            .filter(movie -> movie.getId() == m_show.getMoviedId())
            .findFirst().orElse(null)));
    movies.removeAll(Collections.singletonList(null));
    return movies;
}

@GetMapping("not-playing")
public List<MovieEntity> notPlaying() {

```

```

        final List<MovieEntity> movies = new ArrayList<>();
        final List<MovieEntity> allMovies = this.findAll();
        movieShowsRepository.findAllNotPlaying()
            .forEach(m_show -> movies.add(allMovies.stream()
                .filter(movie -> movie.getId() == m_show.getMovieId())
                .findFirst().orElse(null)));
        movies.removeAll(Collections.singletonList(null));
        return movies;
    }

    @PostMapping("add")
    @PreAuthorize("hasAuthority('WRITE')")
    public MovieEntity saveMovie(@RequestBody final MovieEntity movie) {
        return movieRepository.save(movie);
    }

    @PutMapping("update")
    @PreAuthorize("hasAuthority('UPDATE')")
    public MovieEntity updateMovie(@RequestBody final MovieEntity movie) {
        return movieRepository.save(movie);
    }

    @DeleteMapping("delete/{movie_id}")
    @PreAuthorize("hasAuthority('DELETE')")
    public void deleteMovie(@PathVariable final int movie_id) {
        movieRepository.deleteById(movie_id);
    }
}

```

Movie Show :

```

package com.MyMoviePlan.controller;

import com.MyMoviePlan.entity.BookingEntity;
import com.MyMoviePlan.entity.MovieShowsEntity;
import com.MyMoviePlan.exception.MovieShowNotFoundException;
import com.MyMoviePlan.model.BookedSeats;
import com.MyMoviePlan.repository.MovieShowsRepository;
import lombok.AllArgsConstructor;
import org.springframework.security.access.prepost.PreAuthorize;
import org.springframework.web.bind.annotation.*;

import java.util.ArrayList;
import java.util.List;
import java.util.Optional;
import java.util.stream.Collectors;

@CrossOrigin

```

```

@RestController
@RequestMapping("/movie-show")
@AllArgsConstructor
public class MovieShowController {

    private final MovieShowsRepository repository;

    @PostMapping("add")
    @PreAuthorize("hasAuthority('WRITE')")
    public MovieShowsEntity save(@RequestBody MovieShowsEntity movieShow) {
        return repository.save(movieShow);
    }

    @GetMapping("up-coming")
    @PreAuthorize("hasAuthority('READ')")
    public List<MovieShowsEntity> upComing(@RequestParam(value = "records", required =
false) Optional<String> records) {
        if (records.isPresent())
            return repository.findFewUpComing(Integer.parseInt(records.get()));
        return repository.findAllUpComing();
    }

    @GetMapping("now-playing")
    public List<MovieShowsEntity> nowPlaying(@RequestParam(value = "records", required
= false) Optional<String> records) {
        if (records.isPresent())
            return repository.findFewNowPlaying(Integer.parseInt(records.get()));
        return repository.findAllNowPlaying();
    }

    @GetMapping("now-playing-up-coming")
    public List<MovieShowsEntity> nowPlayingAndUpComing() {
        return repository.findAllNowPlayingAndUpComing();
    }

    @GetMapping("not-playing")
    @PreAuthorize("hasAuthority('WRITE')")
    public List<MovieShowsEntity> notPlaying() {
        return repository.findAllNotPlaying();
    }

    @GetMapping("all")
    public List<MovieShowsEntity> findAllMovieShows() {
        return repository.findAll();
    }

    @GetMapping("{movie_show_id}")
    public MovieShowsEntity findMovieShowById(@PathVariable final int movie_show_id) {

```

```

        return repository.findById(movie_show_id)
            .orElseThrow(
                () -> new MovieShowNotFoundException("Movie Show with id: " +
movie_show_id + " not found")
            );
    }

    @DeleteMapping("delete/{movie_show_id}")
    @PreAuthorize("hasAuthority('DELETE')")
    public void deleteMovieShow(@PathVariable final int movie_show_id) {
        repository.deleteById(movie_show_id);
    }

    /*
    * ===== Booking Controller
    =====
    */

    @GetMapping("{movie_show_id}/booked-seats/{on}")
    @PreAuthorize("hasAuthority('READ')")
    public BookedSeats bookedSeats(@PathVariable final int movie_show_id,
    @PathVariable final String on) {
        final List<BookingEntity> bookings =
this.findMovieShowById(movie_show_id).getBookings()
            .stream().filter(m_show -> m_show.getDateOfBooking().toString().equals(on))
            .collect(Collectors.toList());

        int count = 0;
        List<String> seats = new ArrayList<>();
        for (BookingEntity booking : bookings) {
            count += booking.getTotalSeats();
            seats.addAll(booking.getSeatNumbers());
        }
        return new BookedSeats(count, seats);
    }
}

```

Show:

```

package com.MyMoviePlan.controller;

import com.MyMoviePlan.entity.BookingEntity;
import com.MyMoviePlan.entity.MovieShowsEntity;
import com.MyMoviePlan.entity.ShowEntity;
import com.MyMoviePlan.exception.BookingNotFoundException;
import com.MyMoviePlan.exception.MovieShowNotFoundException;
import com.MyMoviePlan.exception.ShowNotFoundException;

```

```

import com.MyMoviePlan.repository.BookingRepository;
import com.MyMoviePlan.repository.MovieRepository;
import com.MyMoviePlan.repository.MovieShowsRepository;
import com.MyMoviePlan.repository.ShowRepository;
import com.MyMoviePlan.service.UserService;
import lombok.AllArgsConstructor;
import org.springframework.security.access.prepost.PreAuthorize;
import org.springframework.web.bind.annotation.*;

import java.util.List;

@CrossOrigin
@RestController
@RequestMapping("/show")
@AllArgsConstructor
public class ShowController {

    private final ShowRepository show;
    private final MovieShowsRepository movieShow;
    private final MovieRepository movie;
    private final UserService service;
    private final BookingRepository booking;

    @GetMapping("/{show_id}")
    public ShowEntity findShowById(@PathVariable final int show_id) {
        return this.show.findById(show_id)
            .orElseThrow(() -> new ShowNotFoundException("Show with Id: " + show_id + "
not found"));
    }

    @GetMapping("/{", "all"})
    public List<ShowEntity> findAllShows() {
        return this.show.findAll();
    }

    @DeleteMapping("delete/{show_id}")
    @PreAuthorize("hasAuthority('DELETE')")
    public void deleteShow(@PathVariable final int show_id) {
        this.show.deleteById(show_id);
    }

    /*
     * ===== Movie Show Controller
    =====
    */

    @GetMapping("/{show_id}/movie-show/all")

```

```

public List<MovieShowsEntity> findAllMovieShows(@PathVariable final int show_id) {
    return this.findShowById(show_id)
        .getMovieShows();
}

@GetMapping("{show_id}/movie-show/{movie_show_id}")
public MovieShowsEntity findMovieShowById(@PathVariable final int show_id,
    @PathVariable final int movie_show_id) {
    return this.findShowById(show_id)
        .getMovieShows()
        .stream()
        .filter(movie_show -> movie_show.getId() == movie_show_id)
        .findFirst()
        .orElseThrow(
            () -> new MovieShowNotFoundException("Movie Show with id: "
                + movie_show_id + " not found"));
}

@PostMapping("{show_id}/movie-show/add")
@PreAuthorize("hasAuthority('WRITE')")
public MovieShowsEntity saveMovieShow(@PathVariable final int show_id,
    @RequestBody final MovieShowsEntity movieShow) {
    final ShowEntity show = this.findShowById(show_id);
    final int movieId = movieShow.getMovieId();
    movieShow.setShow(show);
    movieShow.setMovieId(this.movie.findById(movieId).get().getId());
    return this.movieShow.save(movieShow);
}

@PutMapping("{show_id}/movie-show/update")
@PreAuthorize("hasAuthority('UPDATE')")
public MovieShowsEntity updateMovieShow(@PathVariable final int show_id,
    @RequestBody final MovieShowsEntity movieShow) {
    final ShowEntity show = this.findShowById(show_id);
    movieShow.setShow(show);
    return this.movieShow.save(movieShow);
}

@DeleteMapping("{show_id}/movie-show/delete/{movie_show_id}")
@PreAuthorize("hasAuthority('UPDATE')")
public void deleteMovieShow(@PathVariable final int show_id,
    @PathVariable final int movie_show_id) {
    final MovieShowsEntity movieShow = this.findMovieShowById(show_id,
        movie_show_id);
    this.movieShow.deleteById(movieShow.getMovieId());
}

/*

```

```

* ===== Booking Controller
=====
*/

@GetMapping("/{show_id}/movie-show/{movie_show_id}/booking/{booking_id}")
@PreAuthorize("hasAuthority('READ')")
public BookingEntity findBookingById(@PathVariable final int show_id,
                                     @PathVariable final int movie_show_id,
                                     @PathVariable final int booking_id) {
    final MovieShowsEntity movieShow = this.findMovieShowById(show_id,
movie_show_id);
    return movieShow.getBookings()
        .stream().filter(booking -> booking.getId() == booking_id)
        .findFirst()
        .orElseThrow(() -> new BookingNotFoundException("Booking with id: "
            + booking_id + " not found."));
}

@GetMapping("/{show_id}/movie-show/{movie_show_id}/booking/all")
@PreAuthorize("hasAuthority('READ')")
public List<BookingEntity> allBookings(@PathVariable final int show_id,
                                     @PathVariable final int movie_show_id) {
    return this.findMovieShowById(show_id, movie_show_id).getBookings();
}

@PostMapping("/{show_id}/movie-show/{movie_show_id}/booking/add")
@PreAuthorize("hasAuthority('WRITE')")
public BookingEntity saveBooking(@PathVariable final int show_id,
                                @PathVariable final int movie_show_id,
                                @RequestBody final BookingEntity booking) {
    final MovieShowsEntity moveShow = this.findMovieShowById(show_id,
movie_show_id);
    // booking.setUserId(this.service.getLoggedInUser().getId());
    booking.setUserId(this.service.findByMobile("8099531318").get().getId());
    booking.setMovieShow(moveShow);
    return this.booking.save(booking);
}

@PutMapping("/{show_id}/movie-show/{movie_show_id}/booking/update")
@PreAuthorize("hasAuthority('UPDATE')")
public BookingEntity updateBooking(@PathVariable final int show_id,
                                  @PathVariable final int movie_show_id,
                                  @RequestBody final BookingEntity booking) {
    final MovieShowsEntity moveShow = this.findMovieShowById(show_id,
movie_show_id);
    booking.setMovieShow(moveShow);
    return this.booking.save(booking);
}

```

```

    @DeleteMapping("{show_id}/movie-show/{movie_show_id}/booking/delete/{booking_id}")
    @PreAuthorize("hasAuthority('READ')")
    public void deleteBookingById(@PathVariable final int show_id,
                                   @PathVariable final int movie_show_id,
                                   @PathVariable final int booking_id) {
        final BookingEntity booking = this.findBookingById(show_id, movie_show_id,
        booking_id);
        this.booking.deleteById(booking.getId());
    }
}

```

User:

```

package com.MyMoviePlan.controller;

import com.MyMoviePlan.entity.UserEntity;
import com.MyMoviePlan.model.Credentials;
import com.MyMoviePlan.model.HttpResponse;
import com.MyMoviePlan.model.Token;
import com.MyMoviePlan.service.UserService;
import lombok.AllArgsConstructor;
import org.springframework.security.access.prepost.PreAuthorize;
import org.springframework.web.bind.annotation.*;

import javax.servlet.http.HttpServletRequest;
import java.util.List;

@CrossOrigin
@RestController
@RequestMapping("/user")
@AllArgsConstructor
public class UserController {

    private final UserService service;
    private final HttpServletRequest request;

    @GetMapping("/")
    public String index() {
        return "Welcome " + service.getUserName();
    }

    @PostMapping("authenticate")
    public Token authenticate(@RequestBody final Credentials credentials) {

        return service.authenticate(credentials);
    }
}

```



```

@GetMapping("check/{username}")
public Token checkUniqueness(@PathVariable final String username) {
    return service.checkUniqueness(username);
}

@GetMapping("get-user")
@PreAuthorize("hasAuthority('READ')")
public UserEntity user() {
    return service.getLoggedInUser()
        .setPassword(null);
}

@GetMapping("all")
@PreAuthorize("hasAuthority('WRITE')")
public List<UserEntity> allUsers() {
    return service.findAll();
}

@PutMapping("update/{username}")
@PreAuthorize("hasAuthority('READ')")
public UserEntity updateUser(@RequestBody final UserEntity userEntity,
    @PathVariable final String username) {

    return service.update(userEntity, username);
}

@PostMapping("sign-up")
public HttpResponseMessage signUp(@RequestBody final UserEntity userEntity) {

    return service.register(userEntity);
}

@PutMapping("change-password")
@PreAuthorize("hasAuthority('READ')")
public HttpResponseMessage changePassword(@RequestBody final Credentials credentials) {

    return service.changePassword(credentials);
}

@PutMapping("forgot-password")
public HttpResponseMessage forgotPassword(@RequestBody final Credentials credentials) {
    return service.forgotPassword(credentials);
}

@DeleteMapping("delete/{username}")
@PreAuthorize("hasAuthority('DELETE')")
public HttpResponseMessage delete(@PathVariable final String username) {
    return service.deleteById(username);
}

```

```
}  
}
```

ENTITY:

Actor:

```
package com.MyMoviePlan.entity;
```

```
import com.fasterxml.jackson.annotation.JsonIgnore;  
import lombok.*;
```

```
import javax.persistence.*;  
import java.io.Serializable;
```

```
@Entity
```

```
@Data
```

```
@AllArgsConstructor
```

```
@NoArgsConstructor
```

```
@EqualsAndHashCode
```

```
@Table(name = "actors")
```

```
public class ActorEntity implements Serializable {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
    private int id;
```

```
    @Column(name = "is_cast")
```

```
    private String isCast;
```

```
    private String name;
```

```
    private String role;
```

```
    @Column(length = Integer.MAX_VALUE, columnDefinition="TEXT")
```

```
    private String image;
```

```
        @JsonIgnore
```

```
        @ToString.Exclude
```

```
        @EqualsAndHashCode.Exclude
```

```
        @ManyToOne(targetEntity = MovieEntity.class)
```

```
        private MovieEntity movie;
```

```
    public ActorEntity(String name, String role, String image) {
```

```
        this.name = name;
```

```
        this.role = role;
```

```
        this.image = image;
```

```
    }
```

```
}
```

Auditorium:

```
package com.MyMoviePlan.entity;
```

```
import lombok.*;
```

```
import javax.persistence.*;
```

```
import java.io.Serializable;
```

```
import java.util.List;
```

```
//@JsonIdentityInfo(generator = ObjectIdGenerators.PropertyGenerator.class,
```

```
//      property = "id", scope = ShowEntity.class)
```

```
@Entity
```

```
@Data
```

```
@NoArgsConstructor
```

```
@AllArgsConstructor
```

```
@EqualsAndHashCode
```

```
@Table(name = "auditoriums")
```

```
public class AuditoriumEntity implements Serializable {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
    private int id;
```

```
    private String name;
```

```
    @Column(length = Integer.MAX_VALUE, columnDefinition="TEXT")
```

```
    private String image;
```

```
    private String email;
```

```
    @Column(name = "customer_care_no")
```

```
    private String customerCareNo;
```

```
    private String address;
```

```
    @Column(name = "seat_capacity")
```

```
    private int seatCapacity;
```

```
    @ToString.Exclude
```

```
    @EqualsAndHashCode.Exclude
```

```
    @ElementCollection
```

```
    @CollectionTable(name = "auditorium_facilities", joinColumns = @JoinColumn(name = "auditorium_id"))
```

```
    @Column(name = "facility")
```

```
    private List<String> facilities;
```

```

    @ToString.Exclude
    @EqualsAndHashCode.Exclude
    @ElementCollection
    @CollectionTable(name = "auditorium_safeties", joinColumns = @JoinColumn(name =
"auditorium_id"))
    @Column(name = "safety")
    private List<String> safeties;

    @ToString.Exclude
    @EqualsAndHashCode.Exclude
    @JoinColumn(name = "auditorium_id", referencedColumnName = "id")
    @OneToMany(targetEntity = ShowEntity.class, cascade = CascadeType.ALL)
    // @JoinTable(name = "auditorium_shows",
    //      joinColumns = @JoinColumn(name = "auditorium_id", unique = false),
    //      inverseJoinColumns = @JoinColumn(name = "show_id", unique = false))
    private List<ShowEntity> shows;

    public AuditoriumEntity(String name, String image, String email, String customerCareNo,
String address,
        int seatCapacity, List<String> facilities, List<String> safeties,
List<ShowEntity> shows) {
        this.name = name;
        this.image = image;
        this.email = email;
        this.customerCareNo = customerCareNo;
        this.address = address;
        this.seatCapacity = seatCapacity;
        this.facilities = facilities;
        this.safeties = safeties;
        this.shows = shows;
    }

    public AuditoriumEntity setId(int id) {
        this.id = id;
        return this;
    }

    public AuditoriumEntity setName(String name) {
        this.name = name;
        return this;
    }

    public AuditoriumEntity setImage(String image) {
        this.image = image;
        return this;
    }

    public AuditoriumEntity setEmail(String email) {

```

```

        this.email = email;
        return this;
    }

    public AuditoriumEntity setCustomerCare(String customerCareNo) {
        this.customerCareNo = customerCareNo;
        return this;
    }

    public AuditoriumEntity setAddress(String address) {
        this.address = address;
        return this;
    }

    public AuditoriumEntity setSeatCapacity(int seatCapacity) {
        this.seatCapacity = seatCapacity;
        return this;
    }

    public AuditoriumEntity setFacilities(List<String> facilities) {
        this.facilities = facilities;
        return this;
    }

    public AuditoriumEntity setSafeties(List<String> safeties) {
        this.safeties = safeties;
        return this;
    }

    public AuditoriumEntity setShows(List<ShowEntity> shows) {
        this.shows = shows;
        return this;
    }
}

```

Booking Digital:

```
package com.MyMoviePlan.entity;
```

```
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.EqualsAndHashCode;
import lombok.NoArgsConstructor;
```

```
import javax.persistence.*;
import java.io.Serializable;
```

```
@Entity
```

```

@Data
@AllArgsConstructor
@NoArgsConstructor
@EqualsAndHashCode
@Table(name = "booking_details")
public class BookingDetailsEntity implements Serializable {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;

    @Column(name = "auditorium_id")
    private int auditoriumId;

    @Column(name = "show_id")
    private int showId;

    @Column(name = "movie_show_id")
    private int movieShowId;

    @Column(name = "movie_id")
    private int movieId;

    public BookingDetailsEntity(int auditoriumId, int showId, int movieShowId, int movieId) {
        this.auditoriumId = auditoriumId;
        this.showId = showId;
        this.movieShowId = movieShowId;
        this.movieId = movieId;
    }
}

```

Booking:

```

package com.MyMoviePlan.entity;

import com.fasterxml.jackson.annotation.JsonIgnore;
import lombok.*;

import javax.persistence.*;
import java.io.Serializable;
import java.util.Date;
import java.util.List;

@Entity
@Data
@AllArgsConstructor
@NoArgsConstructor
@EqualsAndHashCode
@Table(name = "bookings")

```

```

public class BookingEntity implements Serializable {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;

    private double amount;

    @Column(name = "total_seats")
    private int totalSeats;

    @Column(name = "booked_on")
    @Temporal(TemporalType.DATE)
    private Date bookedOn;

    @Column(name = "date_of_booking")
    @Temporal(TemporalType.DATE)
    private Date dateOfBooking;

    @Column(name = "user_id")
    private String userId;

    @ToString.Exclude
    @EqualsAndHashCode.Exclude
    @ElementCollection
    @CollectionTable(name = "booked_seats", joinColumns = @JoinColumn(name =
"booking_id"))
    @Column(name = "seat_numbers")
    private List<String> seatNumbers;

    @ToString.Exclude
    @EqualsAndHashCode.Exclude
    @OneToOne(targetEntity = PaymentEntity.class, cascade = CascadeType.ALL)
    @JoinColumn(name = "payment_id")
    private PaymentEntity payment;

    @ToString.Exclude
    @EqualsAndHashCode.Exclude
    @OneToOne(targetEntity = BookingDetailsEntity.class, cascade = CascadeType.ALL)
    @JoinColumn(name = "booking_details_id")
    private BookingDetailsEntity bookingDetails;

    @JsonIgnore
    @ToString.Exclude
    @EqualsAndHashCode.Exclude
    @ManyToOne(targetEntity = MovieShowsEntity.class)
    private MovieShowsEntity movieShow;
}

```

```

    public BookingEntity(double amount, int totalSeats, Date bookedOn, Date dateOfBooking,
        List<String> seatNumbers,
            PaymentEntity payment, String userId, MovieShowsEntity movieShow) {
        this.amount = amount;
        this.totalSeats = totalSeats;
        this.bookedOn = bookedOn;
        this.dateOfBooking = dateOfBooking;
        this.seatNumbers = seatNumbers;
        this.payment = payment;
        this.userId = userId;
        this.movieShow = movieShow;
    }

    public BookingEntity setMovieShow(MovieShowsEntity movieShow) {
        this.movieShow = movieShow;
        return this;
    }

    public BookingEntity setId(int id) {
        this.id = id;
        return this;
    }

    public BookingEntity setAmount(double amount) {
        this.amount = amount;
        return this;
    }

    public BookingEntity setTotalSeats(int totalSeats) {
        this.totalSeats = totalSeats;
        return this;
    }

    public BookingEntity setStatus(Date bookedOn) {
        this.bookedOn = bookedOn;
        return this;
    }

    public BookingEntity setDateOfBooking(Date dateOfBooking) {
        this.dateOfBooking = dateOfBooking;
        return this;
    }

    public BookingEntity setSeatNumbers(List<String> seatNumbers) {
        this.seatNumbers = seatNumbers;
        return this;
    }

```



```

    public BookingEntity setPayment(PaymentEntity payment) {
        this.payment = payment;
        return this;
    }

    public BookingEntity setUserId(String userId) {
        this.userId = userId;
        return this;
    }
}

```

Movie:

```
package com.MyMoviePlan.entity;
```

```
import lombok.*;
```

```
import javax.persistence.*;
import java.io.Serializable;
import java.util.Date;
import java.util.List;
```

```

@Entity
@Data
@AllArgsConstructor
@NoArgsConstructor
@EqualsAndHashCode
@Table(name = "movies")
public class MovieEntity implements Serializable {

```

```

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;

```

```
    private String name;
```

```

    @Column(length = Integer.MAX_VALUE, columnDefinition = "TEXT")
    private String image;

```

```

    @Column(name = "bg_image", length = Integer.MAX_VALUE, columnDefinition="TEXT")
    private String bgImage;

```

```

    @Column(length = 9000)
    private String story;

```

```
    private String year;
```

```
    private String duration;
```

```

private String caption;

@Column(name = "added_on")
@Temporal(TemporalType.DATE)
private Date addedOn;

@Temporal(TemporalType.DATE)
private Date release;

private String language;

@ToString.Exclude
@EqualsAndHashCode.Exclude
@ElementCollection
@CollectionTable(name = "movie_genres", joinColumns = @JoinColumn(name =
"movie_id"))
@Column(name = "genre")
private List<String> genres;

@ToString.Exclude
@EqualsAndHashCode.Exclude
@OneToMany(targetEntity = ActorEntity.class, cascade = CascadeType.ALL)
@JoinColumn(name = "movie_id", referencedColumnName = "id")
private List<ActorEntity> casts;

@ToString.Exclude
@EqualsAndHashCode.Exclude
@OneToMany(targetEntity = ActorEntity.class, cascade = CascadeType.ALL)
@JoinColumn(name = "movie_id", referencedColumnName = "id")
private List<ActorEntity> crews;

public MovieEntity(String name, String image, String bgImage, String story, String year,
    String duration, String caption, Date addedOn, Date release, String language,
    List<String> genres, List<ActorEntity> casts, List<ActorEntity> crews) {
    this.name = name;
    this.image = image;
    this.bgImage = bgImage;
    this.story = story;
    this.year = year;
    this.duration = duration;
    this.caption = caption;
    this.addedOn = addedOn;
    this.release = release;
    this.language = language;
    this.genres = genres;
    this.casts = casts;
    this.crews = crews;
}

```

```
}

public MovieEntity setId(int id) {
    this.id = id;
    return this;
}

public MovieEntity setName(String name) {
    this.name = name;
    return this;
}

public MovieEntity setImage(String image) {
    this.image = image;
    return this;
}

public MovieEntity setBgImage(String bgImage) {
    this.bgImage = bgImage;
    return this;
}

public MovieEntity setStory(String story) {
    this.story = story;
    return this;
}

public MovieEntity setYear(String year) {
    this.year = year;
    return this;
}

public MovieEntity setDuration(String duration) {
    this.duration = duration;
    return this;
}

public MovieEntity setCaption(String caption) {
    this.caption = caption;
    return this;
}

public MovieEntity setAddedOn(Date addedOn) {
    this.addedOn = addedOn;
    return this;
}

public MovieEntity setRelease(Date release) {
```

```

        this.release = release;
        return this;
    }

    public MovieEntity setLanguages(String language) {
        this.language = language;
        return this;
    }

    public MovieEntity setGenres(List<String> genres) {
        this.genres = genres;
        return this;
    }

    public MovieEntity setCasts(List<ActorEntity> casts) {
        this.casts = casts;
        return this;
    }

    public MovieEntity setCrews(List<ActorEntity> crews) {
        this.crews = crews;
        return this;
    }
}

```

Movie Show:

```

package com.MyMoviePlan.entity;

import com.fasterxml.jackson.annotation.JsonIgnore;
import lombok.*;

import javax.persistence.*;
import java.io.Serializable;
import java.util.Date;
import java.util.List;

@Entity
@Data
@AllArgsConstructor
@NoArgsConstructor
@EqualsAndHashCode
@Table(name = "movie_shows")
public class MovieShowsEntity implements Serializable {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;

```

```

    @Temporal(TemporalType.DATE)
    @Column(name = "show_start")
    private Date start;

    @Temporal(TemporalType.DATE)
    @Column(name = "show_end")
    private Date end;

    @Column(name = "movie_id")
    private int movieId;

    @JsonIgnore
    @ToString.Exclude
    @EqualsAndHashCode.Exclude
    @ManyToOne(targetEntity = ShowEntity.class)
    private ShowEntity show;

    @ToString.Exclude
    @EqualsAndHashCode.Exclude
    @JoinColumn(name = "movie_show_id", referencedColumnName = "id")
    @OneToMany(targetEntity = BookingEntity.class, cascade = CascadeType.ALL)
    // @JoinTable(name = "movie_show_bookings",
    //      joinColumns = @JoinColumn(name = "movie_show_id", unique = false),
    //      inverseJoinColumns = @JoinColumn(name = "booking_id", unique = false))
    private List<BookingEntity> bookings;

    @ToString.Exclude
    @EqualsAndHashCode.Exclude
    @OneToOne(targetEntity = PriceEntity.class, cascade = CascadeType.ALL)
    @JoinColumn(name = "price_id")
    private PriceEntity price;

    public MovieShowsEntity(int id, Date start, Date end, List<BookingEntity> bookings, int
movieId) {
        this.id = id;
        this.start = start;
        this.end = end;
        this.bookings = bookings;
        this.movieId = movieId;
    }

    public MovieShowsEntity setId(int id) {
        this.id = id;
        return this;
    }

    public MovieShowsEntity setStart(Date start) {

```

```

        this.start = start;
        return this;
    }

    public MovieShowsEntity setEnd(Date end) {
        this.end = end;
        return this;
    }

    public MovieShowsEntity setShow(ShowEntity show) {
        this.show = show;
        return this;
    }

    public MovieShowsEntity setMovieId(int movieId) {
        this.movieId = movieId;
        return this;
    }
}

```

Payment:

```

package com.MyMoviePlan.entity;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.EqualsAndHashCode;
import lombok.NoArgsConstructor;

import javax.persistence.*;
import java.io.Serializable;
import java.util.Date;

@Entity
@Data
@AllArgsConstructor
@NoArgsConstructor
@EqualsAndHashCode
@Table(name = "payments")
public class PaymentEntity implements Serializable {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;

    private double amount;

    @Column(name = "payment_date")

```

```
@Temporal(TemporalType.DATE)
```

```
private Date paymentDate;
```

```
@Column(name = "card_number", length = 20)
```

```
private String cardNumber;
```

```
@Column(name = "card_expiry_month", length = 5)
```

```
private String cardExpiryMonth;
```

```
@Column(name = "card_expiry_year", length = 5)
```

```
private String cardExpiryYear;
```

```
@Column(name = "card_cvv", length = 5)
```

```
private String cardCVV;
```

```
public PaymentEntity(double amount, Date paymentDate, String cardNumber, String  
cardExpiryMonth,
```

```
String cardExpiryYear, String cardCVV) {
```

```
    this.amount = amount;
```

```
    this.paymentDate = paymentDate;
```

```
    this.cardNumber = cardNumber;
```

```
    this.cardExpiryMonth = cardExpiryMonth;
```

```
    this.cardExpiryYear = cardExpiryYear;
```

```
    this.cardCVV = cardCVV;
```

```
}
```

```
public PaymentEntity setId(int id) {
```

```
    this.id = id;
```

```
    return this;
```

```
}
```

```
public PaymentEntity setAmount(double amount) {
```

```
    this.amount = amount;
```

```
    return this;
```

```
}
```

```
public PaymentEntity setPaymentDate(Date paymentDate) {
```

```
    this.paymentDate = paymentDate;
```

```
    return this;
```

```
}
```

```
public PaymentEntity setCardNumber(String cardNumber) {
```

```
    this.cardNumber = cardNumber;
```

```
    return this;
```

```
}
```

```
public PaymentEntity setCardExpiryMonth(String cardExpiryMonth) {
```

```
    this.cardExpiryMonth = cardExpiryMonth;
```

```

        return this;
    }

    public PaymentEntity setCardExpiryYear(String cardExpiryYear) {
        this.cardExpiryYear = cardExpiryYear;
        return this;
    }

    public PaymentEntity setCardCVV(String cardCVV) {
        this.cardCVV = cardCVV;
        return this;
    }
}

```

Price:

```

package com.MyMoviePlan.entity;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.EqualsAndHashCode;
import lombok.NoArgsConstructor;

import javax.persistence.*;
import java.io.Serializable;

@Entity
@Data
@AllArgsConstructor
@NoArgsConstructor
@EqualsAndHashCode
@Table(name = "prices")
public class PriceEntity implements Serializable {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;

    private double general;

    private double silver;

    private double gold;

    public PriceEntity(double general, double silver, double gold) {
        this.general = general;
        this.silver = silver;
        this.gold = gold;
    }
}

```



```
}  
}
```

Show:

```
package com.MyMoviePlan.entity;
```

```
import com.fasterxml.jackson.annotation.JsonIgnore;  
import lombok.*;
```

```
import javax.persistence.*;  
import java.io.Serializable;  
import java.util.List;
```

```
@Entity
```

```
@Data
```

```
@AllArgsConstructor
```

```
@NoArgsConstructor
```

```
@EqualsAndHashCode
```

```
@Table(name = "shows")
```

```
public class ShowEntity implements Serializable {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.IDENTITY)  
    private int id;
```

```
    private String name;
```

```
    @Column(name = "start_time")
```

```
    private String startTime;
```

```
    @JsonIgnore
```

```
    @ToString.Exclude
```

```
    @EqualsAndHashCode.Exclude
```

```
    @ManyToOne(targetEntity = AuditoriumEntity.class)
```

```
    private AuditoriumEntity auditorium;
```

```
    // @JsonManagedReference
```

```
    @ToString.Exclude
```

```
    @EqualsAndHashCode.Exclude
```

```
    @OneToMany(targetEntity = MovieShowsEntity.class, cascade = CascadeType.ALL)
```

```
    @JoinColumn(name = "show_id", referencedColumnName = "id")
```

```
    private List<MovieShowsEntity> movieShows;
```

```
    public ShowEntity(String name, String startTime, List<MovieShowsEntity> movieShows) {
```

```
        this.name = name;
```

```
        this.startTime = startTime;
```

```
        this.movieShows = movieShows;
```

```

    }

    public ShowEntity setId(int id) {
        this.id = id;
        return this;
    }

    public ShowEntity setName(String name) {
        this.name = name;
        return this;
    }

    public ShowEntity setStartTime(String startTime) {
        this.startTime = startTime;
        return this;
    }

    public ShowEntity setAuditorium(AuditoriumEntity auditorium) {
        this.auditorium = auditorium;
        return this;
    }

    public ShowEntity setMovieShows(List<MovieShowsEntity> movieShows) {
        this.movieShows = movieShows;
        return this;
    }
}

```

User:

```

package com.MyMoviePlan.entity;

import com.MyMoviePlan.model.UserRole;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.EqualsAndHashCode;
import lombok.NoArgsConstructor;
import org.hibernate.annotations.GenericGenerator;

import javax.persistence.*;
import java.io.Serializable;

@Entity
@Data
@AllArgsConstructor
@NoArgsConstructor
@EqualsAndHashCode
@Table(name = "users")

```

```

public class UserEntity implements Serializable {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY, generator = "uuid2")
    @GenericGenerator(name = "uuid2", strategy = "uuid2")
    private String id;

    @Column(length = 50)
    private String name;

    @Column(nullable = false, length = 50, unique = true)
    private String email;

    @Column(nullable = false, length = 10, unique = true)
    private String mobile;

    @Column(length = 60)
    private String gender;

    private String password;

    private Boolean terms;

    @Column(name = "is_account_non_expired")
    private Boolean isAccountNonExpired;

    @Column(name = "is_account_non_locked")
    private Boolean isAccountNonLocked;

    @Column(name = "is_credentials_non_expired")
    private Boolean isCredentialsNonExpired;

    @Column(name = "is_enabled")
    private Boolean isEnabled;

    @Column(name = "user_role", length = 20)
    @Enumerated(EnumType.STRING)
    private UserRole userRole;

    public UserEntity(String name, String email, String mobile, String gender, String
password, Boolean terms,
        Boolean isAccountNonExpired, Boolean isAccountNonLocked,
        Boolean isCredentialsNonExpired, Boolean isEnabled, UserRole userRole) {
        this.name = name;
        this.email = email;
        this.mobile = mobile;
        this.gender = gender;
        this.password = password;
    }
}

```

```
this.terms = terms;
this.isAccountNonExpired = isAccountNonExpired;
this.isAccountNonLocked = isAccountNonLocked;
this.isCredentialsNonExpired = isCredentialsNonExpired;
this.isEnabled = isEnabled;
this.userRole = userRole;
}

public UserEntity setId(String id) {
    this.id = id;
    return this;
}

public UserEntity setName(String name) {
    this.name = name;
    return this;
}

public UserEntity setEmail(String email) {
    this.email = email;
    return this;
}

public UserEntity setMobile(String mobile) {
    this.mobile = mobile;
    return this;
}

public UserEntity setGender(String gender) {
    this.gender = gender;
    return this;
}

public UserEntity setPassword(String password) {
    this.password = password;
    return this;
}

public UserEntity setActive(Boolean active) {
    terms = active;
    return this;
}

public UserEntity setAccountNonExpired(Boolean accountNonExpired) {
    isAccountNonExpired = accountNonExpired;
    return this;
}
```

```

public UserEntity setAccountNonLocked(Boolean accountNonLocked) {
    isAccountNonLocked = accountNonLocked;
    return this;
}

public UserEntity setCredentialsNonExpired(Boolean credentialsNonExpired) {
    isCredentialsNonExpired = credentialsNonExpired;
    return this;
}

public UserEntity setEnabled(Boolean enabled) {
    isEnabled = enabled;
    return this;
}

public UserEntity setUserRole(UserRole userRole) {
    this.userRole = userRole;
    return this;
}

public UserEntity setTerms(Boolean terms) {
    this.terms = terms;
    return this;
}

}

```

EXCEPTION:

Auditorium NotFound:

```
package com.MyMoviePlan.exception;
```

```

public class AuditoriumNotFoundException extends RuntimeException {

    public AuditoriumNotFoundException(String message) {
        super(message);
    }

}

```

Booking Notfound:

```
package com.MyMoviePlan.exception;
```

```

public class BookingNotFoundException extends RuntimeException{

    public BookingNotFoundException(String message) {
        super(message);
    }

}

```

Global:

```
package com.MyMoviePlan.exception;
```

```
import com.MyMoviePlan.model.HttpResponse;  
import org.springframework.http.HttpStatus;  
import org.springframework.http.ResponseEntity;  
import org.springframework.web.bind.annotation.ControllerAdvice;  
import org.springframework.web.bind.annotation.ExceptionHandler;  
import  
org.springframework.web.servlet.mvc.method.annotation.ResponseEntityExceptionHandler;
```

```
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;
```

```
@ControllerAdvice
```

```
public class GlobalExceptionHandler extends ResponseEntityExceptionHandler {
```

```
    @ExceptionHandler(Exception.class)
```

```
    public ResponseEntity<HttpResponse> handleException(final Exception exception,  
                                                         final HttpServletRequest request,  
                                                         final HttpServletResponse response) {
```

```
        Integer statusCode = (Integer) request  
            .getAttribute("javax.servlet.error.status_code");
```

```
        final int status = response.getStatus();
```

```
        final String exceptionMessage = exception.getMessage();
```

```
        if (statusCode == null || statusCode == 0) {  
            statusCode = status;  
            if (HttpStatus.valueOf(status).getReasonPhrase().equals("OK"))  
                statusCode = 403;  
        }  
    }
```

```
    final HttpStatus httpStatus = HttpStatus.valueOf(statusCode);
```

```
    final HttpResponse httpResponse =  
        new HttpResponse(statusCode, httpStatus.getReasonPhrase(),  
exceptionMessage);  
    return new ResponseEntity<HttpResponse>(httpResponse, httpStatus);  
}
```

```
Movie Notfound:
```

```
package com.MyMoviePlan.exception;
```

```
public class MovieNotFoundException extends RuntimeException {
```

```
    public MovieNotFoundException(String message) {  
        super(message);  
    }  
}
```

Movie Show Notfound:

```
package com.MyMoviePlan.exception;
```

```
public class MovieShowNotFoundException extends RuntimeException {  
    public MovieShowNotFoundException(String message) {  
        super(message);  
    }  
}
```

Show Notfound:

```
package com.MyMoviePlan.exception;
```

```
public class ShowNotFoundException extends RuntimeException{  
  
    public ShowNotFoundException(String message) {  
        super(message);  
    }  
}
```

Un Authorized:

```
package com.MyMoviePlan.exception;
```

```
public class UnauthorizedException extends RuntimeException{  
  
    public UnauthorizedException(String message) {  
        super(message);  
    }  
  
}
```

User Notfound:

```
package com.MyMoviePlan.exception;
```

```
public class UserNotFoundException extends RuntimeException {  
  
    public UserNotFoundException(String message) {  
        super(message);  
    }  
}
```

```
}
```

FILTER:

JWT Filter:

```
package com.MyMoviePlan.filter;

import com.MyMoviePlan.model.HttpResponse;
import com.MyMoviePlan.security.ApplicationUserDetailsService;
import com.MyMoviePlan.util.JWTUtil;
import io.jsonwebtoken.JwtException;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpStatus;
import
org.springframework.security.authentication.UsernamePasswordAuthenticationToken;
import org.springframework.security.core.context.SecurityContextHolder;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.web.authentication.WebAuthenticationDetailsSource;
import org.springframework.stereotype.Component;
import org.springframework.web.filter.OncePerRequestFilter;

import javax.servlet.FilterChain;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;

@Component()
public class JWTFilter extends OncePerRequestFilter {

    @Autowired
    private JWTUtil jwtUtil;

    @Autowired
    private ApplicationUserDetailsService userDetailsService;

    @Override
    protected void doFilterInternal(HttpServletRequest request,
                                    HttpServletResponse response,
                                    FilterChain filterChain) throws ServletException, IOException {

        try {
            String authorization = request.getHeader("Authorization");
            String token = null;
            String userName = null;

            if (authorization != null && authorization.startsWith("Bearer ")) {
                token = authorization.substring(7);
```



```

        userName = jwtUtil.getUsernameFromToken(token);
    }

    if (userName != null && SecurityContextHolder.getContext().getAuthentication() ==
null) {
        UserDetails userDetails
            = userDetailsService.loadUserByUsername(userName);

        if (jwtUtil.validateToken(token, userDetails)) {
            UsernamePasswordAuthenticationToken authenticationToken
                = new UsernamePasswordAuthenticationToken(userDetails,
                    null, userDetails.getAuthorities());

            authenticationToken.setDetails(
                new WebAuthenticationDetailsSource().buildDetails(request)
            );
            SecurityContextHolder.getContext().setAuthentication(authenticationToken);
        }
    }
    filterChain.doFilter(request, response);
} catch (JwtException exception) {
    setErrorResponse(HttpStatus.NOT_ACCEPTABLE, response, exception);
} catch (Exception exception) {
    setErrorResponse(HttpStatus.INTERNAL_SERVER_ERROR, response, exception);
}
}

private void setErrorResponse(HttpStatus status, HttpServletResponse response,
Exception exception) {
    response.setStatus(status.value());
    response.setContentType("application/json");
    final HttpServletResponse httpResponse =
        new HttpServletResponse(status.value(),
            HttpStatus.valueOf(status.value()).getReasonPhrase(),
            exception.getMessage());
    try {
        final String json = httpResponse.covertToJson();
        response.getWriter().write(json);
    } catch (IOException e) {
        e.printStackTrace();
    }
}
}

```

MODEL:

Booked Seats:

```
package com.MyMoviePlan.model;
```

```
import lombok.AllArgsConstructor;
```

```
import lombok.Data;
```

```
import lombok.NoArgsConstructor;
```

```
import java.util.List;
```

```
@Data
```

```
@AllArgsConstructor
```

```
@NoArgsConstructor
```

```
public class BookedSeats {
```

```
    private int count;
```

```
    private List<String> seats;
```

```
}
```

Credentials:

```
package com.MyMoviePlan.model;
```

```
import lombok.AllArgsConstructor;
```

```
import lombok.Data;
```

```
import lombok.NoArgsConstructor;
```

```
@Data
```

```
@AllArgsConstructor
```

```
@NoArgsConstructor
```

```
public class Credentials {
```

```
    private String username;
```

```
    private String password;
```

```
}
```

HTTP Response:

```
package com.MyMoviePlan.model;
```

```
import com.fasterxml.jackson.core.JsonProcessingException;
```

```
import com.fasterxml.jackson.databind.ObjectMapper;
```

```
import com.fasterxml.jackson.databind.SerializationFeature;
```

```
import com.fasterxml.jackson.datatype.jsr310.JavaTimeModule;
```

```
import lombok.AllArgsConstructor;
```

```
import lombok.Data;
```

```
import lombok.NoArgsConstructor;
```

```
@Data
```

```

@AllArgsConstructor
@NoArgsConstructor
public class HttpResponse {

    private int statusCode; // 200, 201, 404

    private String error; // OK, CREATED

    private String message;

    public String covertToJson() throws JsonProcessingException {
        if (this == null)
            return null;

        ObjectMapper mapper = new ObjectMapper();
        mapper.registerModule(new JavaTimeModule());
        mapper.disable(SerializationFeature.WRITE_DATES_AS_TIMESTAMPS);

        return mapper.writeValueAsString(this);
    }
}

```

Ticket Details:

```

package com.MyMoviePlan.model;

import lombok.AllArgsConstructor;
import lombok.NoArgsConstructor;

@AllArgsConstructor
@NoArgsConstructor
public class TicketDetails {

    private String auditoriumName;

    private String showName;

    private String showTiming;

    private double amount;

    private String movieName;

    private String movieImage;

    private String movieBgImage;
}

```

Token:

```
package com.MyMoviePlan.model;
```

```
import lombok.AllArgsConstructor;  
import lombok.Data;  
import lombok.NoArgsConstructor;
```

```
@Data  
@AllArgsConstructor  
@NoArgsConstructor  
public class Token {  
  
    private String token;  
}
```

UserPermissions:

```
package com.MyMoviePlan.model;
```

```
import lombok.AllArgsConstructor;  
import lombok.Getter;
```

```
@Getter  
@AllArgsConstructor  
public enum UserPermission {  
    READ,  
    WRITE,  
    UPDATE,  
    DELETE  
}
```

User Role:

```
package com.MyMoviePlan.model;
```

```
import lombok.AllArgsConstructor;  
import lombok.Getter;
```

```
import java.util.Arrays;  
import java.util.List;
```

```
import static com.MyMoviePlan.model.UserPermission.*;
```

```
@Getter  
@AllArgsConstructor  
public enum UserRole {
```

```

    ROLE_USER(Arrays.asList(READ)),
    ROLE_MANAGER(Arrays.asList(READ, WRITE)),
    ROLE_ADMIN(Arrays.asList(READ, WRITE, UPDATE)),
    ROLE_SUPER_ADMIN(Arrays.asList(READ, WRITE, UPDATE, DELETE));

    private final List<UserPermission> permissions;
}

```

REPOSITORY:

Actor:

```
package com.MyMoviePlan.repository;
```

```

import com.MyMoviePlan.entity.ActorEntity;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

```

```

@Repository
public interface ActorRepository extends JpaRepository<ActorEntity, Integer> {
}

```

Auditorium:

```
package com.MyMoviePlan.repository;
```

```

import com.MyMoviePlan.entity.AuditoriumEntity;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

```

```

@Repository
public interface AuditoriumRepository extends JpaRepository<AuditoriumEntity, Integer> {
}

```

Booking Repository:

```
package com.MyMoviePlan.repository;
```

```

import com.MyMoviePlan.entity.BookingEntity;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

```

```
import java.util.List;
```

```

@Repository
public interface BookingRepository extends JpaRepository<BookingEntity, Integer> {

    List<BookingEntity> findAllByUserIdOrderByBookedOnAsc(final String userId);
}

```

Movie:

```
package com.MyMoviePlan.repository;
```

```
import com.MyMoviePlan.entity.MovieEntity;  
import org.springframework.data.jpa.repository.JpaRepository;  
import org.springframework.stereotype.Repository;
```

```
@Repository
```

```
public interface MovieRepository extends JpaRepository<MovieEntity, Integer> {  
}
```

MovieShow:

```
package com.MyMoviePlan.repository;
```

```
import com.MyMoviePlan.entity.MovieShowsEntity;  
import org.springframework.data.jpa.repository.JpaRepository;  
import org.springframework.data.jpa.repository.Query;  
import org.springframework.data.repository.query.Param;  
import org.springframework.stereotype.Repository;
```

```
import java.util.List;
```

```
@Repository
```

```
public interface MovieShowsRepository extends JpaRepository<MovieShowsEntity, Integer>  
{
```

```
    // https://docs.spring.io/spring-  
data/commons/docs/current/reference/html/#repositories.limit-query-result  
    // https://stackoverflow.com/questions/11401229/how-to-use-select-distinct-with-  
random-function-in-postgresql  
    // https://stackoverflow.com/questions/32079084/how-to-find-distinct-rows-with-field-in-  
list-using-jpa-and-spring  
    // https://dev.to/golovpavel/make-a-request-with-sub-condition-for-child-list-via-spring-  
data-jpa-4inn  
    // https://docs.spring.io/spring-data/jpa/docs/current/reference/html/#jpa.query-  
methods.query-creation
```

```
    // @Query(value = "SELECT DISTINCT ON(movie_id) * FROM movie_shows WHERE  
start >= CURRENT_DATE", nativeQuery = true)
```

```
    @Query(value = "SELECT DISTINCT ON(ms.movie_id) * FROM movie_shows ms  
WHERE ms.show_start > CURRENT_DATE", nativeQuery = true)
```

```
    List<MovieShowsEntity> findAllUpComing();
```

```
@Query(value = "SELECT DISTINCT ON(ms.movie_id) * FROM movie_shows ms
WHERE ms.show_start <= CURRENT_DATE AND ms.show_end >= CURRENT_DATE",
nativeQuery = true)
```

```
List<MovieShowsEntity> findAllNowPlaying();
```

```
@Query(value = "SELECT DISTINCT ON(ms.movie_id) * FROM movie_shows ms
WHERE ms.show_end >= CURRENT_DATE", nativeQuery = true)
```

```
List<MovieShowsEntity> findAllNowPlayingAndUpComing();
```

```
@Query(value = "SELECT DISTINCT ON(ms.movie_id) * FROM movie_shows ms
WHERE ms.show_end < CURRENT_DATE", nativeQuery = true)
```

```
List<MovieShowsEntity> findAllNotPlaying();
```

```
// @Query("FROM MovieShowsEntity ms LEFT JOIN ms.bookings b WHERE ms.id =
?1 AND b.dateOfBooking = ?2")
```

```
// @Query(value = "SELECT * FROM movie_shows ms INNER JOIN bookings b ON
ms.id = :id and b.date_of_booking = ':dateOfBooking'", nativeQuery = true)
```

```
// Optional<MovieShowsEntity> findByIdAndDateOfBooking(@Param("id") final int id,
@Param("dateOfBooking") final String dateOfBooking);
```

```
// SELECT * FROM (SELECT DISTINCT movie_id FROM movie_shows WHERE start
> CURRENT_DATE) ms ORDER BY random() LIMIT :records
```

```
@Query(value = "SELECT DISTINCT ON(ms.movie_id) * FROM movie_shows ms
WHERE ms.show_start > CURRENT_DATE LIMIT :records", nativeQuery = true)
```

```
List<MovieShowsEntity> findFewUpComing(@Param("records") final int records);
```

```
@Query(value = "SELECT DISTINCT ON(ms.movie_id) * FROM movie_shows ms
WHERE ms.show_start <= CURRENT_DATE AND ms.show_end >= CURRENT_DATE
LIMIT :records", nativeQuery = true)
```

```
List<MovieShowsEntity> findFewNowPlaying(@Param("records") final int records);
```

```
// @Query(value = "SELECT ms.id, ms.show_end, ms.movie_id, ms.show_start,
ms.show_id, ms.price_id FROM movie_shows ms INNER JOIN bookings b ON b.id =
:bookingId", nativeQuery = true)
```

```
// MovieShowsEntity findByBookingId(@Param("bookingId") final int bookingId);
}
```

Payment:

```
package com.MyMoviePlan.repository;
```

```
import com.MyMoviePlan.entity.PaymentEntity;
```

```
import org.springframework.data.jpa.repository.JpaRepository;
```

```
import org.springframework.stereotype.Repository;
```

```
@Repository
```

```
public interface PaymentRepository extends JpaRepository<PaymentEntity, Integer> {
}
```

Price:

```
package com.MyMoviePlan.repository;
```

```
import com.MyMoviePlan.entity.PriceEntity;  
import org.springframework.data.jpa.repository.JpaRepository;  
import org.springframework.stereotype.Repository;
```

@Repository

```
public interface PriceRepository extends JpaRepository<PriceEntity, Integer> {  
}
```

Show:

```
package com.MyMoviePlan.repository;
```

```
import com.MyMoviePlan.entity.ShowEntity;  
import org.springframework.data.jpa.repository.JpaRepository;  
import org.springframework.stereotype.Repository;
```

@Repository

```
public interface ShowRepository extends JpaRepository<ShowEntity, Integer> {  
}
```

User:

```
package com.MyMoviePlan.repository;
```

```
import com.MyMoviePlan.entity.UserEntity;  
import org.springframework.data.jpa.repository.JpaRepository;  
import org.springframework.stereotype.Repository;
```

```
import java.util.Optional;
```

@Repository

```
public interface UserRepository extends JpaRepository<UserEntity, String> {
```

```
    Optional<UserEntity> findByEmail(final String email);
```

```
    Optional<UserEntity> findByMobile(final String mobile);
```

```
}
```

SECURITY:

Application Security:

```
package com.MyMoviePlan.security;
```



```

import com.MyMoviePlan.filter.JWTFilter;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.http.HttpMethod;
import org.springframework.security.authentication.AuthenticationManager;
import org.springframework.security.authentication.dao.DaoAuthenticationProvider;
import
org.springframework.security.config.annotation.authentication.builders.AuthenticationManag
erBuilder;
import
org.springframework.security.config.annotation.method.configuration.EnableGlobalMethodS
ecurity;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.config.annotation.web.builders.WebSecurity;
import
org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAd
apter;
import org.springframework.security.config.http.SessionCreationPolicy;
import org.springframework.security.crypto.password.PasswordEncoder;
import
org.springframework.security.web.authentication.UsernamePasswordAuthenticationFilter;
import org.springframework.web.cors.CorsConfiguration;
import org.springframework.web.cors.CorsConfigurationSource;
import org.springframework.web.cors.UrlBasedCorsConfigurationSource;

import java.util.Arrays;

```

```

@Configuration
@EnableWebSecurity
@EnableGlobalMethodSecurity(prePostEnabled = true)
public class ApplicationSecurity extends WebSecurityConfigurerAdapter {

```

```

    @Autowired
    private ApplicationUserDetailsService userDetailsService;

```

```

    @Autowired
    private PasswordEncoder passwordEncoder;

```

```

    @Autowired
    private JWTFilter jwtFilter;

```

```

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http.headers().frameOptions().sameOrigin();
        http.csrf().disable().cors().disable()

```

```

        .cors().configurationSource(corsConfigurationSource())
        .and()
    .authorizeRequests()
        .antMatchers(HttpMethod.OPTIONS, "**")
        .permitAll()
        .anyRequest()
        .fullyAuthenticated()
        .and()
        .httpBasic()
        .and()
        .sessionManagement()
        .sessionCreationPolicy(SessionCreationPolicy.STATELESS);
    http.addFilterBefore(jwtFilter, UsernamePasswordAuthenticationFilter.class);
}

//      .antMatchers(HttpMethod.POST, "/user/authenticate", "/user/sign-up")
//      .permitAll()
//      .antMatchers(HttpMethod.PUT, "/user/forgot-password")
//      .permitAll()
//      .antMatchers(HttpMethod.GET, "/auditorium/**", "/movie/**", "/show/**",
"/user/check/**")
//      .permitAll()

@Override
public void configure(WebSecurity web) throws Exception {
    web.ignoring()
        .antMatchers("/h2-console/**", "/auditorium/**", "/movie/**", "/show/**", "/user/**",
            "/user/forgot-password", "/user/authenticate", "/movie-show/**",
            "/booking/**", "/logout");
}

@Override
protected void configure(AuthenticationManagerBuilder auth) throws Exception {
    auth.authenticationProvider(authenticationProvider());
}

@Bean
public DaoAuthenticationProvider authenticationProvider() {
    DaoAuthenticationProvider authenticationProvider = new DaoAuthenticationProvider();
    authenticationProvider.setPasswordEncoder(passwordEncoder);
    authenticationProvider.setUserDetailsService(userDetailsService);
    return authenticationProvider;
}

@Bean
CorsConfigurationSource corsConfigurationSource() {
    CorsConfiguration configuration = new CorsConfiguration();
    configuration.setAllowedOrigins(Arrays.asList("**"));
}

```

```

        configuration.setAllowedMethods(Arrays.asList("GET", "POST", "PUT", "PATCH",
"DELETE", "OPTIONS"));
        configuration.setAllowCredentials(true);
        //the below three lines will add the relevant CORS response headers
        configuration.addAllowedOrigin("*");
        configuration.addAllowedHeader("*");
        configuration.addAllowedMethod("*");
        UrlBasedCorsConfigurationSource source = new UrlBasedCorsConfigurationSource();
        source.registerCorsConfiguration("/**", configuration);
        return source;
    }

```

```

    @Override
    @Bean
    protected AuthenticationManager authenticationManager() throws Exception {
        return super.authenticationManager();
    }
}

```

Application User Details:

```
package com.MyMoviePlan.security;
```

```

import com.MyMoviePlan.entity.UserEntity;
import lombok.AllArgsConstructor;
import org.springframework.security.core.GrantedAuthority;
import org.springframework.security.core.authority.SimpleGrantedAuthority;
import org.springframework.security.core.userdetails.UserDetails;

```

```

import java.util.Collection;
import java.util.List;
import java.util.stream.Collectors;

```

```

    @AllArgsConstructor
    public class ApplicationUserDetails implements UserDetails {

```

```
        private final UserEntity user;
```

```

        @Override
        public Collection<? extends GrantedAuthority> getAuthorities() {
            final List<SimpleGrantedAuthority> authorities = user.getUserRole()
                .getPermissions()
                .stream()
                .map(permission -> new SimpleGrantedAuthority(permission.name()))
                .collect(Collectors.toList());
            authorities.add(new SimpleGrantedAuthority(user.getUserRole().name()));
            return authorities;
        }
    }

```

```

    }

    @Override
    public String getPassword() {
        return user.getPassword();
    }

    @Override
    public String getUsername() {
        return user.getEmail();
    }

    @Override
    public boolean isAccountNonExpired() {
        return user.getIsAccountNonExpired();
    }

    @Override
    public boolean isAccountNonLocked() {
        return user.getIsAccountNonLocked();
    }

    @Override
    public boolean isCredentialsNonExpired() {
        return user.getIsCredentialsNonExpired();
    }

    @Override
    public boolean isEnabled() {
        return user.getIsEnabled();
    }
}

```

Application User Service:

```

package com.MyMoviePlan.security;

import com.MyMoviePlan.entity.UserEntity;
import com.MyMoviePlan.exception.UserNotFoundException;
import com.MyMoviePlan.service.UserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.core.userdetails.UsernameNotFoundException;
import org.springframework.stereotype.Service;

@Service
public class ApplicationUserDetailsService implements UserDetailsService {

```

```

    @Autowired
    private UserService service;

    @Override
    public UserDetails loadUserByUsername(final String username) throws
    UsernameNotFoundException {
        final UserEntity userEntity = service.getUser(username);
        return new ApplicationUserDetails(userEntity);
    }
}

```

SERVLETS UTILIZER:

```

package com.MyMoviePlan;

import org.springframework.boot.builder.SpringApplicationBuilder;
import org.springframework.boot.web.servlet.support.SpringBootServletInitializer;

public class ServletInitializer extends SpringBootServletInitializer {

    @Override
    protected SpringApplicationBuilder configure(SpringApplicationBuilder application) {
        return application.sources(MyMoviePlanApplication.class);
    }

}

```

TEST:

```

My Movie Application Test:
package com.MyMoviePlan;

import org.junit.jupiter.api.Test;
import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest
class MyMoviePlanApplicationTests {

    @Test
    void contextLoads() {
    }

}

```