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Branch: CBA Batch: 41. Sem : 4

Subject: FET

Practical - 13 (Movie Recommendation)

Objective: To understand the framework of Angular, implement one-way, two-way bindings and structural directives (ngFor, ngIf and ngSwitch), wherever applicable.

Exercise:

Develop an Angular application that will recommend some movies based on user's choice.

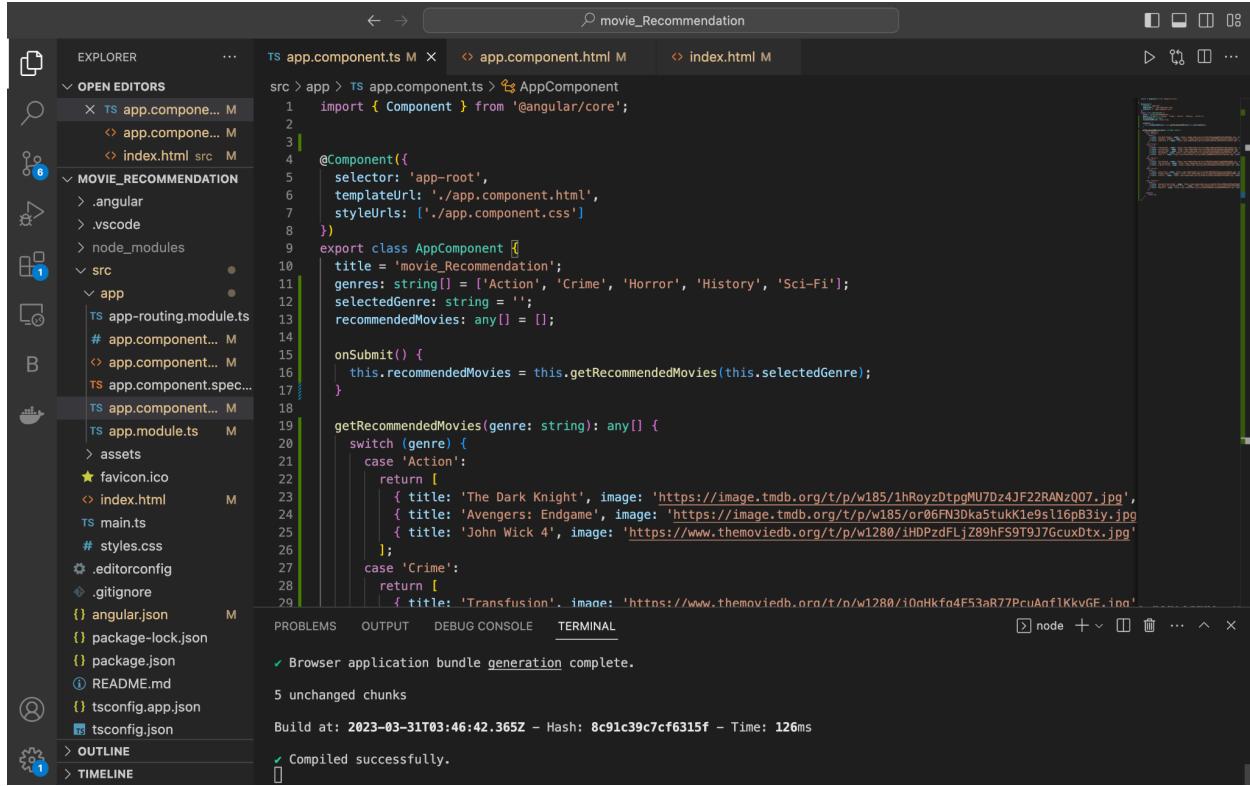
The user should be asked his choice of genres (like comedy, thriller, horror, romcom, romantic, sci-fi and so on). Upon selection, there should be some list of movies that the system would recommend.

Note: You can design the UI/UX on your own.

GITHUB LINK:

<https://github.com/Shivam3783/FET-PRACTICALS/tree/main/PRAC13>

CODE:



The screenshot shows the VS Code interface with the following details:

- EXPLORER** sidebar: Shows the project structure with files like `index.html`, `app-routing.module.ts`, `app.component.ts`, `app.module.ts`, `main.ts`, `styles.css`, `editorconfig`, `.gitignore`, `angular.json`, `package-lock.json`, `package.json`, `README.md`, `tsconfig.app.json`, and `tsconfig.json`.
- OPEN EDITORS**:
 - `app.component.ts` (active tab):

```
src > app > TS app.component.ts > AppComponent
1   import { Component } from '@angular/core';
2
3   @Component({
4     selector: 'app-root',
5     templateUrl: './app.component.html',
6     styleUrls: ['./app.component.css']
7   })
8   export class AppComponent {
9     title = 'movie_Recommendation';
10    genres: string[] = ['Action', 'Crime', 'Horror', 'History', 'Sci-Fi'];
11    selectedGenre: string = '';
12    recommendedMovies: any[] = [];
13
14    onSubmit() {
15      this.recommendedMovies = this.getRecommendedMovies(this.selectedGenre);
16    }
17
18    getRecommendedMovies(genre: string): any[] {
19      switch (genre) {
20        case 'Action':
21          return [
22            { title: 'The Dark Knight', image: 'https://image.tmdb.org/t/p/w185/1hRoyzDtpgMU70z4JF2RANz007.jpg' },
23            { title: 'Avengers: Endgame', image: 'https://image.tmdb.org/t/p/w185/or06FN30ka5tuKK1e9s1l6pB3iy.jpg' },
24            { title: 'John Wick 4', image: 'https://www.themoviedb.org/t/p/w1280/iHDPzdFLjZ89hFS9T9J7GcuxDtx.jpg' }
25          ];
26        case 'Crime':
27          return [
28            { title: 'Transfusion', image: 'https://www.themoviedb.org/t/p/w1280/i0nHkf04F53aR77PnuAof1KkvGE.jpg' }
29          ];
29      }
26    }
27  }
28
29
```
 - `app.component.html`
 - `index.html`
- TERMINAL**:

```
✓ Browser application bundle generation complete.
5 unchanged chunks
Build at: 2023-03-31T03:46:42.365Z - Hash: 8c91c39c7cf6315f - Time: 126ms
✓ Compiled successfully.
```

OUTPUT:

Safari File Edit View History Bookmarks Window Help

A localhost:4200 Fri 31 Mar 9:17 AM

Select a Genre:

Submit

Recommended Movies:

Crime

Safari File Edit View History Bookmarks Window Help

A localhost:4200 Fri 31 Mar 9:17 AM

Safari File Edit View History Bookmarks Window Help

A localhost:4200 Fri 31 Mar 9:17 AM

Select a Genre:

Crime

Submit

Recommended Movies:

Safari File Edit View History Bookmarks Window Help

A localhost:4200 Fri 31 Mar 9:17 AM

The Batman

In his second year of fighting crime, Batman uncovers corruption in Gotham City that connects to his own family while facing a serial killer known as the Riddler.

Rating: 7.8

Fast X

Over many missions and against impossible odds, Dom Toretto and his family have committed, out-nerved and out-thrown every foe in their path.

Rating: 9.3

A screenshot of a movie recommendation application running on a Mac OS X desktop. The window title is "localhost:4200". The interface features a top navigation bar with "Safari", "File", "Edit", "View", "History", "Bookmarks", "Window", and "Help" menus. A status bar at the top right shows the date as "Fri 31 Mar 9:18 AM" and battery level as "100%". The main content area has a background pattern of food icons (hamburgers, fries, cups). It contains two sections: "Select a Genre:" with a dropdown menu set to "Action" and a "Submit" button, and "Recommended Movies:" displaying three movie posters. The first poster is for "The Dark Knight", the second for "Avengers: Endgame", and the third for "John Wick: Chapter 2". Each movie poster is enclosed in a red rectangular border. The Mac OS X dock at the bottom includes icons for Finder, Mail, Safari, and other applications.