

RESHMA V S – 21011102084 – WEB TECH LAB 4

CODE:

index.html:

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>Homes</title>
  <base href="/">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="icon" type="image/x-icon" href="favicon.ico">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Be+Vietnam+Pro:ital,wght@0,400;0,700;1,400;1,700&display=swap" rel="stylesheet">
</head>
<body>
  <app-root></app-root>
</body>
</html>
```

style.css:

```
/* You can add global styles to this file, and also import other style files */
* {
  margin: 0;
  padding: 0;
}

body {
  font-family: 'Be Vietnam Pro', sans-serif;
  background-color: rgb(176, 179, 188);
}

:root {
  --primary-color: #c85d74;
  --secondary-color: #e689a8;
  --accent-color: #f4e7fa;
  --shadow-color: #E8E8E8;
}

button.primary {
  padding: 10px;
  border: solid 1px var(--primary-color);
  background: var(--primary-color);
}
```

```
color: white;
border-radius: 8px;
}
```

App:

app.component.css:

```
:host {
  --content-padding: 10px;
}
header {
  display: block;
  height: 60px;
  padding: var(--content-padding);
  box-shadow: 0px 5px 25px var(--shadow-color);
}
.content {
  padding: var(--content-padding);
}
.brand-name {
  font-size: 48pt;
  font-weight: bold;
  margin-bottom: 15px;
  color: black;
}
```

app.component.ts:

```
import { Component } from '@angular/core';
import { HomeComponent } from '../home/home.component';
import { RouterLink, RouterOutlet } from '@angular/router';

@Component({
  selector: 'app-root',
  standalone: true,
  imports: [HomeComponent, RouterLink, RouterOutlet],
  template: `
    <main>
      <a [routerLink]="['/']">
        <header class="brand-name">
          UNIVERSITIES
        </header>
      </a>
      <section class="content">
        <router-outlet></router-outlet>
      </section>
    </main>
```

```

    styleUrls: ['./app.component.css'],
  })
  export class AppComponent {
    title = 'homes';
  }

```

[home.component.css:](#)

```

.results {
  display: grid;
  column-gap: 14px;
  row-gap: 14px;
  grid-template-columns: repeat(auto-fill, minmax(400px, 400px));
  margin-top: 50px;
  justify-content: space-around;
}

input[type="text"] {
  border: solid 1px var(--primary-color);
  padding: 10px;
  border-radius: 8px;
  margin-right: 4px;
  display: inline-block;
  width: 30%;
}

button {
  padding: 10px;
  border: solid 1px var(--primary-color);
  background: var(--primary-color);
  color: white;
  border-radius: 8px;
}

@media (min-width: 500px) and (max-width: 768px) {
  .results {
    grid-template-columns: repeat(2, 1fr);
  }
  input[type="text"] {
    width: 70%;
  }
}

@media (max-width: 499px) {
  .results {
    grid-template-columns: 1fr;
  }
}

```

home.component.ts:

```
import { Component, inject } from '@angular/core';
import { CommonModule } from '@angular/common';
import { HousingLocationComponent } from '../housing-location/housing-
location.component';
import { HousingLocation } from '../housinglocation';
import { HousingService } from '../housing.service';

@Component({
  selector: 'app-home',
  standalone: true,
  imports: [
    CommonModule,
    HousingLocationComponent
  ],
  template: `
    <section>
      <form>
        <input type="text" placeholder="Filter by city" #filter>
        <button class="primary" type="button" (click)="filterResults(filter.value)">S
earch</button>
      </form>
    </section>
    <section class="results">
      <app-housing-location
        *ngFor="let housingLocation of filteredLocationList"
        [housingLocation]="housingLocation">
      </app-housing-location>
    </section>
  `,
  styleUrls: ['./home.component.css'],
})

export class HomeComponent {
  housingLocationList: HousingLocation[] = [];
  housingService: HousingService = inject(HousingService);
  filteredLocationList: HousingLocation[] = [];
  constructor() {
    this.housingLocationList = this.housingService.getAllHousingLocations();
    this.filteredLocationList = this.housingLocationList;
  }
  filterResults(text: string) {
    if (!text) {
      this.filteredLocationList = this.housingLocationList;
    }

    this.filteredLocationList = this.housingLocationList.filter(
```

```

        housingLocation => housingLocation?.city.toLowerCase().includes(text.toLowerCase())
    );
}
}

```

housing-location.component.css:

```

.listing {
    background: var(--accent-color);
    border-radius: 30px;
    padding-bottom: 30px;
}
.listing-heading {
    color: var(--primary-color);
    padding: 10px 20px 0 20px;
}
.listing-photo {
    height: 250px;
    width: 100%;
    object-fit: cover;
    border-radius: 30px 30px 0 0;
}
.listing-location {
    padding: 10px 20px 20px 20px;
}
.listing-location::before {
    content: url("/assets/location-pin.svg") / "";
}

section.listing a {
    padding-left: 20px;
    text-decoration: none;
    color: var(--primary-color);
}
section.listing a::after {
    content: "\203A";
    margin-left: 5px;
}

```

housing-location.component.ts:

```

import { Component, Input } from '@angular/core';
import { CommonModule } from '@angular/common';
import { HousingLocation } from '../housinglocation';
import { RouterModule } from '@angular/router';

@Component({
    selector: 'app-housing-location',

```

```

standalone: true,
imports: [
  CommonModule,
  RouterModule
],
template: `
  <section class="listing">
    <img class="listing-
photo" [src]="housingLocation.photo" alt="Exterior photo of {{housingLocation.name}}"
>
    <h2 class="listing-heading">{{ housingLocation.name }}</h2>
    <p class="listing-
location">{{ housingLocation.city}}, {{housingLocation.state }}</p>
    <a [routerLink]="['/details', housingLocation.id]">Learn More</a>
  </section>
`,
styleUrls: ['./housing-location.component.css'],
})

export class HousingLocationComponent {

  @Input() housingLocation!: HousingLocation;

}

```

details.component.css:

```

.listing-photo {
  height: 600px;
  width: 50%;
  object-fit: cover;
  border-radius: 30px;
  float: right;
}

.listing-heading {
  font-size: 48pt;
  font-weight: bold;
  margin-bottom: 15px;
  color: black;
}

.listing-location::before {
  content: url('/assets/location-pin.svg') / '';
}

.listing-location {
  font-size: 24pt;
  margin-bottom: 15px;
  color: black;
}

```

```
}

.listing-features > .section-heading {
  color: var(--secondary-color);
  font-size: 24pt;
  margin-bottom: 15px;
  color: black;
}

.listing-features {
  margin-bottom: 20px;
}

.listing-features li {
  font-size: 14pt;
  color: black;
}

li {
  list-style-type: none;
}

.listing-apply .section-heading {
  font-size: 18pt;
  margin-bottom: 15px;
  color: black;
}

label,
input {
  display: block;
}

label {
  color: black;
  font-weight: bold;
  text-transform: uppercase;
  font-size: 12pt;
}

input {
  font-size: 16pt;
  margin-bottom: 15px;
  padding: 10px;
  width: 400px;
  border-top: none;
  border-right: none;
  border-left: none;
  border-bottom: solid 0.3px;
}

@media (max-width: 1024px) {
  .listing-photo {
    width: 100%;
  }
}
```

```
    height: 400px;
  }
}
```

details.component.ts:

```
import { Component, inject } from '@angular/core';
import { CommonModule } from '@angular/common';
import { ActivatedRoute } from '@angular/router';
import { HousingService } from '../housing.service';
import { HousingLocation } from '../housinglocation';
import { FormControl, FormGroup, ReactiveFormsModule } from '@angular/forms';

@Component({
  selector: 'app-details',
  standalone: true,
  imports: [CommonModule, ReactiveFormsModule],
  template: `
    <article>
      <img class="listing-photo" [src]="housingLocation?.photo"
        alt="Exterior photo of {{housingLocation?.name}}"/>
      <section class="listing-description">
        <h2 class="listing-heading">{{housingLocation?.name}}</h2>
        <p class="listing-
location">{{housingLocation?.city}}, {{housingLocation?.state}}</p>
      </section>
      <section class="listing-features">
        <h2 class="section-heading">About this University</h2>
        <ul>
          <li>No of courses available: {{housingLocation?.available_courses}}</li>
          <li>Rank: {{housingLocation?.rank}}</li>
          <li>Does this location have wifi: {{housingLocation?.wifi}}</li>
        </ul>
      </section>
      <section class="listing-apply">
        <h2 class="section-heading">ENROLL NOW</h2>
        <form [formGroup]="applyForm" (submit)="submitApplication()">
          <label for="first-name">First Name</label>
          <input id="first-name" type="text" formControlName="firstName">

          <label for="last-name">Last Name</label>
          <input id="last-name" type="text" formControlName="lastName">

          <label for="email">Email</label>
          <input id="email" type="email" formControlName="email">
          <button type="submit" class="primary">Submit</button>
        </form>
      </section>
    </article>
```



```

    styleUrls: ['./details.component.css'],
  })
}

export class DetailsComponent {
  route: ActivatedRoute = inject(ActivatedRoute);
  housingService = inject(HousingService);
  housingLocation: HousingLocation | undefined;

  applyForm = new FormGroup({
    firstName: new FormControl(''),
    lastName: new FormControl(''),
    email: new FormControl(''),
  });

  constructor() {
    const housingLocationId = parseInt(this.route.snapshot.params['id'], 10);
    this.housingLocation =
      this.housingService.getHousingLocationById(housingLocationId);
  }

  submitApplication() {
    this.housingService.submitApplication(
      this.applyForm.value.firstName ?? '',
      this.applyForm.value.lastName ?? '',
      this.applyForm.value.email ?? ''
    );
  }
}

```

housing.service.ts:

```

import { Injectable } from '@angular/core';
import { HousingLocation } from './housinglocation';

@Injectable({
  providedIn: 'root',
})
export class HousingService {
  readonly baseUrl = 'https://angular.io/assets/images/tutorials/faa';

  protected housingLocationList: HousingLocation[] = [
    {
      id: 0,
      name: 'University of Chicago',
      city: 'Chicago',
      state: 'IL',
      photo: `https://cdn.britannica.com/39/160139-050-147B020E/Eckhart-Hall-campus-
Ryerson-Physical-Laboratory-University.jpg`,
      available_courses: 19,
    },
  ];
}

```

```
    rank: 10,  
    wifi: true,  
  },  
  {  
    id: 1,  
    name: 'Northwestern University',  
    city: 'Evanston',  
    state: 'IL',  
    photo: 'https://news.northwestern.edu/assets/Stories/2023/04/campus1940__FitMax  
Wzk3MCw2NTBd.jpg',  
    available_courses: 23,  
    rank: 3,  
    wifi: true,  
  },  
  {  
    id: 2,  
    name: 'Yale University',  
    city: 'New Haven',  
    state: 'CT',  
    photo: 'https://collegevine.imgix.net/f2810a3e-aae3-4cb6-a808-  
46bac7d5e347.jpg?h=300&fit=crop&crop=edges&auto=format',  
    available_courses: 21,  
    rank: 4,  
    wifi: true,  
  },  
  {  
    id: 3,  
    name: 'Columbia University',  
    city: 'New York City',  
    state: 'NY',  
    photo: 'https://www.insidehighered.com/sites/default/files/media/columbia.jpg',  
    available_courses: 27,  
    rank: 5,  
    wifi: true,  
  },  
  {  
    id: 4,  
    name: 'University of Pennsylvania',  
    city: 'Philadelphia',  
    state: 'PA',  
    photo: 'https://menlocoaching.com/wp-content/uploads/2022/01/1600px-UPenn_Quad-  
1024x768.jpeg',  
    available_courses: 30,  
    rank: 6,  
    wifi: true,  
  },  
  {  
    id: 5,  
    name: 'Massachusetts Institute of Technology(MIT)',  
    city: 'Cambridge',  
    state: 'Massachusetts',
```

```

    photo: `https://news.mit.edu/sites/default/files/styles/news_article__image_gal
lery/public/images/201709/%2520Aerial-AboveSummit-
Christopher%2520Harting_2.png?itok=dFHQI8zn`,
    available_courses: 40,
    rank: 1,
    wifi: true,
  },
  {
    id: 6,
    name: 'University of Washington',
    city: 'Seattle',
    state: ' Washington',
    photo: `https://images.shiksha.com/mediadata/images/1533799020php51QuI1.jpeg`,
    available_courses: 33,
    rank: 7,
    wifi: true,
  },
  {
    id: 7,
    name: 'Seattle University',
    city: 'Seattle',
    state: ' Washington',
    photo: `https://cdn.britannica.com/00/153800-050-82974F6B/Lemieux-Library-and-
McGoldrick-Learning-Commons-Seattle.jpg`,
    available_courses: 29,
    rank: 8,
    wifi: true,
  },
  {
    id: 8,
    name: 'Seattle Pacific University',
    city: 'Seattle',
    state: ' Washington',
    photo: `https://images.seattletimes.com/wp-
content/uploads/2023/06/06162023_SPU-cuts_133135.jpg?d=2040x1360`,
    available_courses: 31,
    rank: 9,
    wifi: true,
  },
  {
    id: 9,
    name: 'Harvard University',
    city: 'Cambridge',
    state: ' Massachusetts',
    photo: `https://cdn.britannica.com/69/141169-050-CD5892EB/Baker-Library-
Harvard-Business-School-Boston-University.jpg`,
    available_courses: 42,
    rank: 2,
    wifi: true,
  },
];

```

```

getAllHousingLocations(): HousingLocation[] {
  return this.housingLocationList;
}

getHousingLocationById(id: number): HousingLocation | undefined {
  return this.housingLocationList.find(
    (housingLocation) => housingLocation.id === id
  );
}

submitApplication(firstName: string, lastName: string, email: string) {
  console.log(
    `Homes application received: firstName: ${firstName}, lastName: ${lastName}, email: ${email}.`
  );
}
}

```

housinglocation.ts:

```

export interface HousingLocation {
  id: number;
  name: string;
  city: string;
  state: string;
  photo: string;
  available_courses: number;
  rank: number;
  wifi: boolean;
}

```

routes.ts:

```

import { Routes } from '@angular/router';
import { HomeComponent } from '../home/home.component';
import { DetailsComponent } from '../details/details.component';

const routeConfig: Routes = [
  {
    path: '',
    component: HomeComponent,
    title: 'Home page'
  },
  {
    path: 'details/:id',

```

```
component: DetailsComponent,  
title: 'Home details'  
}  
];  
  
export default routeConfig;
```

OUTPUT:

UNIVERSITIES



University of Chicago

 Chicago, IL



Northwestern University

 Evanston, IL



Yale University

 New Haven, CT

[Learn More >](#)



Columbia University

 New York City, NY


[Learn More >](#)








University of Pennsylvania

 Philadelphia, PA

[Learn More >](#)




Massachusetts Institute of Technology(MIT)

 Cambridge, Massachusetts

[Learn More >](#)




University of Washington


 Seattle, Washington



Seattle University


 Seattle, Washington

University of Washington

 Seattle, Washington

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Seattle University

 Seattle, Washington

[Learn More >](#)




Seattle Pacific University

 Seattle, Washington

[Learn More >](#)



Harvard University

 Cambridge, Massachusetts

[Learn More >](#)



Harvard University

📍 Cambridge, Massachusetts

About this University

No of courses available: 42

Rank: 2

Does this location have wifi: true

ENROLL NOW

FIRST NAME

LAST NAME

EMAIL

Submit