

Lab Exercise 4 – 21011102051

R.Krithiga

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">
          
        </header>
      </a>
      <section class="content">
        <router-outlet></router-outlet>
      </section>
    </main>
  `,
  styleUrls: ['./app.component.css'],
})
export class AppComponent {
  title = 'homes';
}
```

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);
```

```
}
```

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: 'Acme Fresh Start Housing',
      city: 'Chicago',
      state: 'IL',
      photo: `${this.baseUrl}/bernard-hermant-CLKGGwIBTaY-unsplash.jpg`,
      availableUnits: 4,
      wifi: true,
      laundry: true
    },
    {
      id: 1,
      name: 'A113 Transitional Housing',
      city: 'Santa Monica',
      state: 'CA',
      photo: `${this.baseUrl}/brandon-griggs-wR11KBaB86U-unsplash.jpg`,
      availableUnits: 0,
      wifi: false,
      laundry: true
    },
    {
      id: 2,
      name: 'Warm Beds Housing Support',
      city: 'Juneau',
      state: 'AK',
      photo: `${this.baseUrl}/i-do-nothing-but-love-lAyXdl1-Wmc-unsplash.jpg`,
      availableUnits: 1,
      wifi: false,
      laundry: false
    },
    {
      id: 3,
      name: 'Homesteady Housing',
      city: 'Chicago',
      state: 'IL',
      photo: `${this.baseUrl}/ian-macdonald-W8z6aiwf1E-unsplash.jpg`,
      availableUnits: 1,
    }
  ]
}
```

```
        wifi: true,
        laundry: false
    },
    {
        id: 4,
        name: 'Happy Homes Group',
        city: 'Gary',
        state: 'IN',
        photo: `${this.baseUrl}/krzysztof-hepner-978RAXoXnH4-unsplash.jpg`,
        availableUnits: 1,
        wifi: true,
        laundry: false
    },
    {
        id: 5,
        name: 'Hopeful Apartment Group',
        city: 'Oakland',
        state: 'CA',
        photo: `${this.baseUrl}/r-architecture-JvQ0Q5IkemMM-unsplash.jpg`,
        availableUnits: 2,
        wifi: true,
        laundry: true
    },
    {
        id: 6,
        name: 'Seriously Safe Towns',
        city: 'Oakland',
        state: 'CA',
        photo: `${this.baseUrl}/phil-hearing-IYfp2Ix9nM-unsplash.jpg`,
        availableUnits: 5,
        wifi: true,
        laundry: true
    },
    {
        id: 7,
        name: 'Hopeful Housing Solutions',
        city: 'Oakland',
        state: 'CA',
        photo: `${this.baseUrl}/r-architecture-GGupkreKwxA-unsplash.jpg`,
        availableUnits: 2,
        wifi: true,
        laundry: true
    },
    {
        id: 8,
        name: 'Seriously Safe Towns',
        city: 'Oakland',
        state: 'CA',
        photo: `${this.baseUrl}/saru-robert-9rP3mx8qWI-unsplash.jpg`,
        availableUnits: 10,
        wifi: false,
```

```

        laundry: false
    },
{
    id: 9,
    name: 'Capital Safe Towns',
    city: 'Portland',
    state: 'OR',
    photo: `${this.baseUrl}/webaliser-_TPTXZd9mOo-unsplash.jpg`,
    availableUnits: 6,
    wifi: true,
    laundry: 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;
    availableUnits: number;
    wifi: boolean;
    laundry: 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;

```

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())
  );
}
}

```

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;
  }
}
```

Housing-location.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;
}
```

Housing-location.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;
}

```

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>

```

Main.ts

```

import { bootstrapApplication, provideProtractorTestingSupport } from '@angular/platform-browser';
import { AppComponent } from './app/app.component';
import { provideRouter } from '@angular/router';
import routeConfig from './app/routes';

```

```

bootstrapApplication(AppComponent,
{
  providers: [
    provideProtractorTestingSupport(),
    provideRouter(routeConfig)
  ]
}
).catch(err => console.error(err));

```

Output:

The screenshot shows a web application interface for a housing platform. At the top left is a logo with a house icon and the word "Homes". Below it is a search bar with a placeholder "Filter by city" and a "Search" button. The main content area displays a 2x3 grid of housing projects. Each project is represented by a card with a thumbnail image, the project name, its location, and a "Learn More" link.

Project Name	Location
Acme Fresh Start Housing	Chicago, IL
A113 Transitional Housing	Santa Monica, CA
Warm Beds Housing Support	Juneau, AK
Homesteady Housing	Chicago, IL
Happy Homes Group	Gary, IN
Hopeful Apartment Group	Oakland, CA

This screenshot shows a continuation of the housing project grid. It adds three more projects to the 2x3 layout, bringing the total to nine cards. Each card follows the same structure: thumbnail, project name, location, and "Learn More" link.

Project Name	Location
Homesteady Housing	Chicago, IL
Happy Homes Group	Gary, IN
Hopeful Apartment Group	Oakland, CA
(Empty thumbnail)	
(Empty thumbnail)	
(Empty thumbnail)	

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Hopeful Housing Solutions

📍 Oakland, CA

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Capital Safe Towns

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