

Lab Exercise 4

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-W8z6aiwfi1E-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-JvQQ5IkeMM-unsplash.jpg`,
  availableUnits: 2,
  wifi: true,
  laundry: true
},
{
  id: 6,
  name: 'Seriously Safe Towns',
  city: 'Oakland',
  state: 'CA',
  photo: `${this.baseUrl}/phil-hearing-IYfp2Ixe9nM-unsplash.jpg`,
  availableUnits: 5,
  wifi: true,
  laundry: true
},
{
  id: 7,
  name: 'Hopeful Housing Solutions',
  city: 'Oakland',
  state: 'CA',
  photo: `${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-9rP3mxf8qWI-unsplash.jpg`,
  availableUnits: 10,
  wifi: false,
  laundry: false
},
{
```

```

        id: 9,
        name: 'Capital Safe Towns',
        city: 'Portland',
        state: 'OR',
        photo: `${this.baseUrl}/webaliser-_TPTXZd9m0o-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: ${las
tName}, 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:

