

Angular Project Setup with Routing and Bootstrap Styling

Day 4

Step 1: Create Project

```
ng new web-router
cd web-router
ng serve --open
```

Step 2: Create Components

```
ng generate component about
ng generate component services
ng serve --open
```

Step 3: Create `app.router.ts`

`app.router.ts`

```
import { Routes, RouterModule } from "@angular/router";
import { AppComponent } from "../app.component";
import { AboutComponent } from "../about/about.component";
import { ServicesComponent } from "../services/services.component";

const routes: Routes = [
  { path: "", redirectTo: "about", pathMatch: "full" }, // Default page
  { path: "about", component: AboutComponent },
  { path: "services", component: ServicesComponent },
];

export const AppRoutingModule = RouterModule.forRoot(routes);
```

Step 4: Update `app.module.ts`

`app.module.ts`

```
import { NgModule } from "@angular/core";
import { BrowserModule } from "@angular/platform-browser";
import { AppRoutingModule } from "../app.router";
import { AppComponent } from "../app.component";
import { AboutComponent } from "../about/about.component";
```

```
import { ServicesComponent } from "../services/services.component";

@NgModule({
  declarations: [AppComponent, AboutComponent, ServicesComponent],
  imports: [BrowserModule, AppRoutingModule],
  providers: [],
  bootstrap: [AppComponent],
})
export class AppModule {}
```

Step 5: Update `app.component.html`

`app.component.html`

```
<div>
  <ul class="nav navbar-nav">
    <li>
      <a routerLink="about">About</a>
    </li>
    <li>
      <a routerLink="services">Services</a>
    </li>
    <li class="nav-item dropdown" id="myDropdown">
      <a class="nav-link dropdown-toggle" routerLink="course" data-bs-
toggle="dropdown">All Courses </a>
      <ul class="dropdown-menu">
        <li> <a class="dropdown-item" routerLink="mean">MEAN Stack </a>
</li>
        <li> <a class="dropdown-item" routerLink="mern">MERN Stack &raquo;
</a>
          <ul class="submenu dropdown-menu">
            <li><a class="dropdown-item" routerLink="mongo">Mongo</a>
</li>
            <li><a class="dropdown-item"
routerLink="express">Express</a></li>
            <li><a class="dropdown-item" routerLink="node">Node </a>
</li>
          </ul>
        </li>
        <li><a class="dropdown-item" routerLink="genai">Gen Ai </a></li>
      </ul>
    </li>
  </ul>
</div>

<style>
  /* ===== Desktop View ===== */
  @media all and (min-width: 992px) {
    .dropdown-menu li {
      position: relative;
    }
  }
```

```
.nav-item .submenu {
  display: none;
  position: absolute;
  left: 100%;
  top: -7px;
}
.dropdown-menu > li:hover {
  background-color: #f1f1f1;
}
.dropdown-menu > li:hover > .submenu {
  display: block;
}
}
/* ===== Desktop View .end// ===== */

/* ===== Small Devices ===== */
@media (max-width: 991px) {
  .dropdown-menu .dropdown-menu {
    margin-left: 0.7rem;
    margin-right: 0.7rem;
    margin-bottom: 0.5rem;
  }
}
/* ===== Small Devices .end// ===== */
</style>
```

Summary Notes:

- **Step 1:** Created a new Angular project named `web-router` and opened it with `ng serve --open`.
- **Step 2:** Generated two components: `about` and `services` using Angular CLI.
- **Step 3:** Created `app.router.ts` to define routing configuration (`routes`) and imported it into `app.module.ts`.
- **Step 4:** Updated `app.module.ts` to include `AppRoutingModule`.
- **Step 5:** Updated `app.component.html` to include navigation links (`routerLink`) and dropdown menu for courses, styled using CSS media queries for responsiveness.