

BASIC ROUTING WITH ROUTER OUTLET

IIHT

Time To Complete: 10 to 12 hr

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1 PROJECT ABSTRACT

Routing is a fundamental concept in single-page applications to allow smooth navigation without reloading the page. This assignment focuses on implementing **Basic Routing using Router Outlet** in Angular. The objective is to demonstrate navigation between multiple pages using routing and the `<router-outlet>` directive.

The goal is to develop a simple SPA with **Home** and **About** pages, utilizing Angular's routing module and dynamic content rendering.

2 PROBLEM STATEMENT

You are tasked with building a **Basic Routing SPA** using Angular.

The application should:

- Include two pages: **Home** and **About**.
- Implement navigation links to switch between the two pages without reloading.
- Use the Angular Router module and `<router-outlet>` directive to render the components.
- Display appropriate messages on each page.

3 PROPOSED BASIC ROUTING WITH ROUTER OUTLET APPLICATION WIREFRAME

UI needs improvisation and modification as per given use case and to make test cases passed.

3.1 SCREENSHOTS

Home Page



About Page



4 BUSINESS-REQUIREMENT:

As an application developer, develop the Basic Routing with Router Outlet (Single Page App) with below guidelines:

User Story #	User Story Name	User Story
US_01	Welcome Page	<p>As a user I should be able to visit the welcome page as the default page.</p> <p>Acceptance criteria:</p> <p>AppComponent:</p> <ol style="list-style-type: none"> 1. Should display the heading "Angular Routing Assignment" in an h1 tag. 2. Should provide navigation links for Home and About using an ul tag and li tags, with each link wrapped inside an <a> tag using routerLink. 3. Clicking the Home link should navigate to the Home page i.e "/" and display the HomeComponent content.

		<p>4. Clicking the About link should navigate to the About page i.e “/about” and display the AboutComponent content.</p> <p>5. Include the <code><router-outlet></code> directive to render routed components dynamically.</p> <p>Note:- Implement app-routing.module.ts file accordingly.</p> <p>HomeComponent:</p> <p>6. Should display the heading "Welcome to the Home Page!" in an h2 tag.</p> <p>7. Below it, display the message "This is the Home Page." in a p tag.</p> <p>AboutComponent:</p> <p>8. Should display the heading "Welcome to the About Page!" in an h2 tag.</p> <p>9. Below it, display the message "This is the About Page." in a p tag.</p> <p>** Kindly refer to the screenshots for any clarifications. **</p>

5 CONSTRAINTS

1. You should be able to press the “TAB” key and “SHIFT + TAB” to navigate from top field to bottom field and vice-versa.

6 MANDATORY ASSESSMENT GUIDELINES

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal ->New Terminal.
3. This editor Auto Saves the code.
4. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
5. This is a web-based application, to run the application on a browser, use the internal browser in the workspace. Click on the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.

Note: The application will not run in the local browser

6. You can follow series of command to setup Angular environment once you are in your project-name folder:
 - a. `npm install` -> Will install all dependencies -> takes 10 to 15 min.
 - b. `npm run start` -> To compile and deploy the project in browser. You can press the <Ctrl> key while clicking on localhost:4200 to open the project in the browser -> takes 2 to 3 min.
 - c. `npm run test` -> to run all test cases. **It is mandatory to run this command before submission of workspace** -> takes 5 to 6 min.
7. Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on **"Submit Assessment"** after you are done with code.