Gabriel Ogungbade **Assignment 2**

Information Technologies

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Full stack programming 2025

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# Assignment report

GitHub*: https://github.com/w0daz/learning\_assignment\_2*

* 1. **Creating the Navigation component**

I created a new components folder in the src directory and added a Navigation.tsx file. I implemented a reusable Navigation component by moving the existing navigation code from the previous implementation into this new component. The component was successfully imported and integrated into the main application structure.

A screen shot of a computer program

AI-generated content may be incorrect.

* 1. **Creating React Router Components**

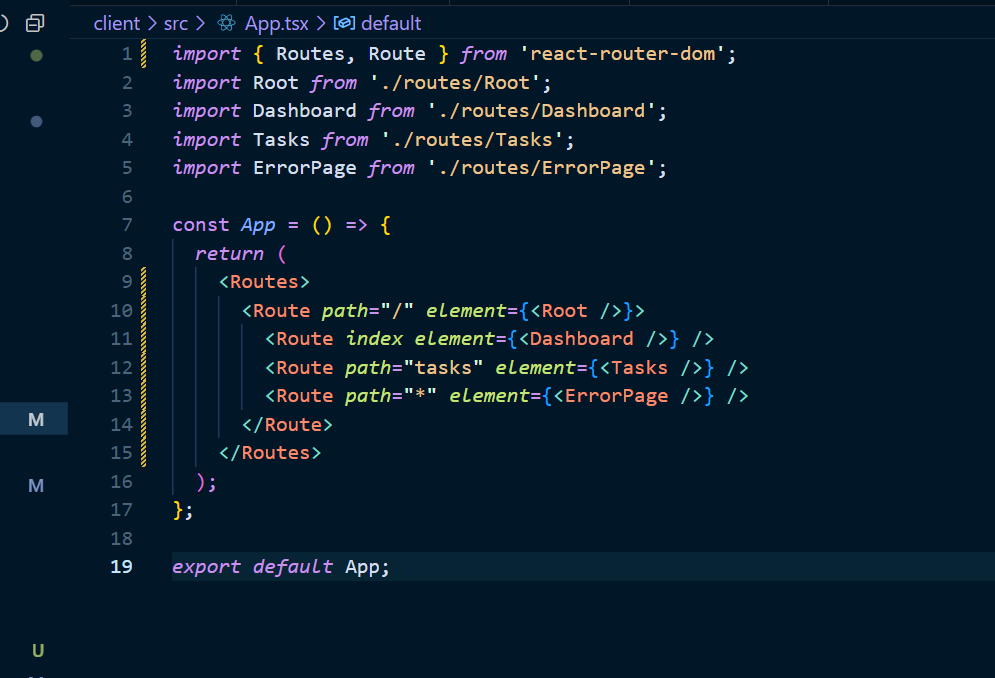
I created a new routes folder in the src directory and implemented two key components: Root.tsx and Dashboard.tsx. The Root component was set up as the base file for the application structure. I successfully moved the existing App component code into the Dashboard component, which now serves as the home view.

A computer screen shot of a program code

AI-generated content may be incorrect.

* 1. **Adding React Router**

I installed react-router-dom using npm and verified its addition in package.json. I implemented the Router in the App component with two main routes: one directing to the Root component and another to the Dashboard component nested within Root. I added the Outlet element to the Root component to handle route rendering.



* 1. **Adding Route Components**

I created two new components: ErrorPage for handling errors and Tasks for managing the task list functionality. I successfully moved the task listing functionality from the Dashboard to the Tasks component and updated the Router configuration to include routes for both new components. The Dashboard was enhanced with a header element.

A screenshot of a computer error

AI-generated content may be incorrect.

* 1. **Updating Navigation**

I relocated the Navigation component to the Root component, positioning it above the Outlet element. I implemented a list of Link elements for navigation between Dashboard and Tasks views. The navigation.tsx code itself was updated to accommodate the change. The layout was updated using Flexbox to create a side menu design, with appropriate styling applied through CSS to achieve the desired visual structure.

A computer code with text

AI-generated content may be incorrect.

A screen shot of a computer program

AI-generated content may be incorrect.

* 1. **Creating a Task List Component and Using Props**

I created a new TaskList.tsx component to handle the task list functionality. I defined a TaskListProps interface to type-check the component's props and implemented the necessary functions for task management. The component was successfully integrated with the Tasks component, with proper prop passing for the task list and delete functionality.

The implementation of props and component separation improved code reusability and maintenance by clearly defining component responsibilities and data flow.

A computer screen shot of code

AI-generated content may be incorrect.

* 1. **Functionality Test & Overview**

A screenshot of a computer

AI-generated content may be incorrect.