Topic : Nested Routing

Assignment: Simple Blog App

Scenario:

You are tasked with building a simple blog application where users can view a list of blog posts and click on a post to see its details.

Each blog post also has comments, and users should be able to navigate to the comments section within the post.

This assignment will help you practice nested routing in React with TypeScript using react-router-dom.

Requirements:

➢ Project Setup:
- Create a new React project with a TypeScript template and name it BlogApp.
- Install react-router-dom for handling routing:
  npm install react-router-dom
➢ Component Structure:
o Home Component:
- Displays a welcome message and a link to the list of blog posts.
o BlogList Component:
- Displays a list of blog post titles with links to the individual post details.
o BlogPost Component:
- Displays the full content of a selected blog post.
- Contains nested routes for viewing the comments of the post.
o Comments Component:
- Displays a list of comments related to the selected blog post.
➢ Routing Structure:
o Use React Router for the following routes:
- /: Home page with a welcome message.

- /posts: Blog list page that displays all blog posts.
- /posts/:postId: Blog post details page for an individual post.
- /posts/:postId/comments: Nested route within the post details page that displays the comments for the selected post.

Tasks:

1. Routing and Navigation:
- Implement routing using react-router-dom to allow navigation between the home page, blog list, individual blog post, and comments.
2. Nested Routing:
- In the BlogPost component, implement nested routing to display the comments for the selected post when the user navigates to /posts/:postId/comments.
3. State Management:
- Create some sample blog post data with comments in the App component.
- Pass the relevant post and comments data to the BlogPost and Comments components based on the route parameters.
4. Expected Outcome:
o A blog application where users can:
- Navigate between the home page and the blog list.
- Click on a blog post to view its details.
- Click on a link within the post details to view the comments for the post.