React Router Practice Activity: "MyBooks App"

Build a simple book management app with multiple pages using React Router and TypeScript. The app should demonstrate routing between different views like a home page, book list, book detail page, and a "Not Found" page.

Requirements

Your app should include the following pages and routes:

1. **Home Page** (/)

- o A welcome message.
- o A link to the books page.

2. Books Page (/books)

- A list of books (hardcoded array is fine).
 - i. author
 - ii. title
 - iii. description
- o Each book should be a link to a detailed view.

3. Book Detail Page (/books/:id)

- Show the book's title and description, other fields.
- o If the book is not found, show a message like "Book not found".

4. Not Found Page (*)

• A fallback route for undefined paths with a custom 404 message.

Suggested File Structure

```
| components/
| BookList.tsx
| pages/
| Home.tsx
| Books.tsx
| BookDetail.tsx
| NotFound.tsx
| types/
| Book.ts
| App.tsx
| main.tsx
```

Tasks

1. Set up routing:

Install react-router-dom and set up BrowserRouter in main.tsx.

2. Create a book type:

```
// types/Book.ts
export interface Book {
  id: string;
  title: string;
  author:string;
  description: string;
}
```

- 3. Create a hardcoded array of books (in a separate file or within a page).
- 4. Implement navigation links using <Link> or <NavLink>.
- 5. **Use useParams** to get the book ID from the URL and show its detail.
- 6. Use <Routes> and <Route> to define all your app routes.

Bonus

• Use useNavigate to redirect to the 404 page when a book ID is invalid.