

React Assignment 2

(100 Marks)

Objective: Create an online library system.

Requirements:

Set up a new React project using Vite. (If your assignment is not created using Vite, it will not be considered your own work, and **you may receive a score of 0.**)

1. Home Page: (15 marks)

- ❖ A landing page with a welcome message and a list of book categories (e.g., Fiction, Non-Fiction, Sci-Fi, etc.). (5 marks)
- ❖ Display a list of popular books **in the form of cards** with a link to view more details. (5 marks)
- ❖ A navigation bar with links to "Home", "Browse Books", and "Add Book" (5 marks)

2. Browse Books Page: (20 marks)

You can use dummy data for the book collection.

- ❖ Display a list of books filtered by category. (5 marks)
- ❖ Use dynamic routing to filter books by category (e.g., /books/:category). (5 marks)
- ❖ Each book should have a "View Details" link that routes to the Book Details page. (5 marks)
- ❖ Search Functionality: Add a search bar on the Browse Books page to filter books by title or author. (5 marks)

3. Book Details Page: (15 marks)

- ❖ A dynamic route that displays detailed information about a selected book. (5 marks)
- ❖ Show book title, author, description, and rating. (5 marks)
- ❖ Include a "Back to Browse" button or link to return to the Browse Books page. (5 marks)

4. Add Book Page: (30 marks)

- ❖ A form for adding a new book to the library. (5 marks)
- ❖ Use Redux to manage the state of the books list. (10 marks)

- ❖ After submission, redirect the user to the Browse Books page with the newly added book displayed **at the beginning**. (10 marks)
- ❖ Implement form validation to ensure all fields are correctly filled out. (5 marks)

5. 404 Page: (5 marks)

- ❖ Add a "Page Not Found" route to handle any undefined routes. **The 404 page should display the invalid route URL on the screen and should not include the Header component.** (2.5 marks)
- ❖ This page should include a link back to the Home page. (2.5 marks)

6. Styling and User Experience (5 marks)

- ❖ Style the application to make it user-friendly and visually appealing.
- ❖ Use CSS or a library like Bootstrap or Tailwind.

Submission (10 marks)

- Submit the link to your GitHub repository containing the project. There should be at least 10 commits in the GitHub repository (Commits should be relevant) (5 marks)
- Ensure the README file includes instructions on how to run the application. (5 marks)
Add comments throughout the codebase to improve readability and make it easier to understand the logic and functionality.
- **Make sure to remove the node_modules folder before compressing the entire project folder**