

React Assignment 2:

Book Library

Submitted By :
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PROJECT OVERVIEW :

This project is a Book Library web application built using React and Vite. The app allows users to browse, search, and explore a collection of books through a clean and intuitive interface. It demonstrates core React concepts such as functional components, state management, props, conditional rendering, and event handling, along with efficient data fetching and responsive UI design. The project focuses on delivering a smooth user experience while showcasing modern front-end development practices.

This Web-App comprises of the following functionalities: -

- ❖ Elegant presentation of a curated book collection with a structured and visually appealing layout
- ❖ Advanced search functionality for quickly discovering books by title or relevant keywords
- ❖ Detailed book view providing essential information for an enhanced browsing experience
- ❖ Seamless client-side navigation powered by a single-page application architecture
- ❖ Modern, responsive, and intuitive user interface optimized for all screen sizes
- ❖ Efficient state management and dynamic UI updates using React components and props
- ❖ High-performance build and fast load times enabled by Vite's optimized tooling

PROJECT STRUCTURE :

```
book-library/
├── node_modules/          # Project dependencies
├── public/                # Public static files
│   ├── bl-logo.png
│   └── vite.svg
├── src/                   # Application source code
│   ├── assets/           # Images & static assets
│   │   ├── bl-logo.png
│   │   ├── book-library.jpg
│   │   └── No-Image.svg
│   ├── Components/       # Reusable UI components
│   │   ├── BookCard.jsx
│   │   ├── BookCard.css
│   │   ├── Navbar.jsx
│   │   ├── Navbar.css
│   │   ├── Footer.jsx
│   │   ├── Footer.css
│   │   ├── StarRating.jsx
│   │   └── StarRating.css
│   ├── pages/            # Application pages (Routes)
│   │   ├── Home.jsx
│   │   ├── Home.css
│   │   ├── BrowseBooks.jsx
│   │   ├── BrowseBooks.css
│   │   ├── BookDetails.jsx
│   │   ├── BookDetails.css
│   │   ├── AddBook.jsx
│   │   ├── AddBook.css
│   │   ├── PageNotFound.jsx
│   │   └── PageNotFound.css
│   ├── Utils/            # State management & utilities
│   │   ├── booksSlice.js  # Redux slice for books
│   │   ├── store.js       # Redux store configuration
│   │   └── data.js        # Initial / mock book data
│   ├── App.jsx           # Root application component
│   ├── App.css
│   ├── main.jsx          # Application entry point
│   └── index.css         # Global styles
└── .gitignore            # Git ignored files
```

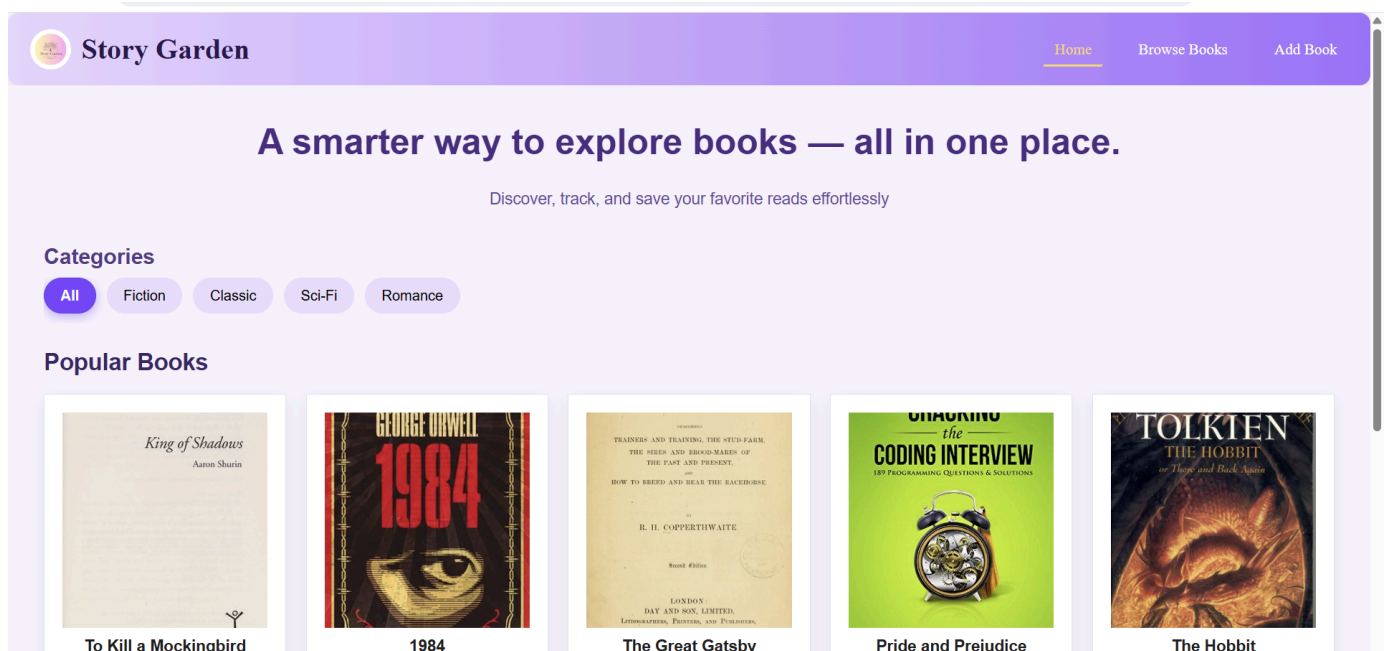
— eslint.config.js	# ESLint configuration
— index.html	# HTML entry file
— package.json	# Project metadata & scripts
— package-lock.json	# Dependency lock file
— vite.config.js	# Vite configuration
— README.md	# Project documentation

Github : <https://github.com/chaitali9497/book-library>

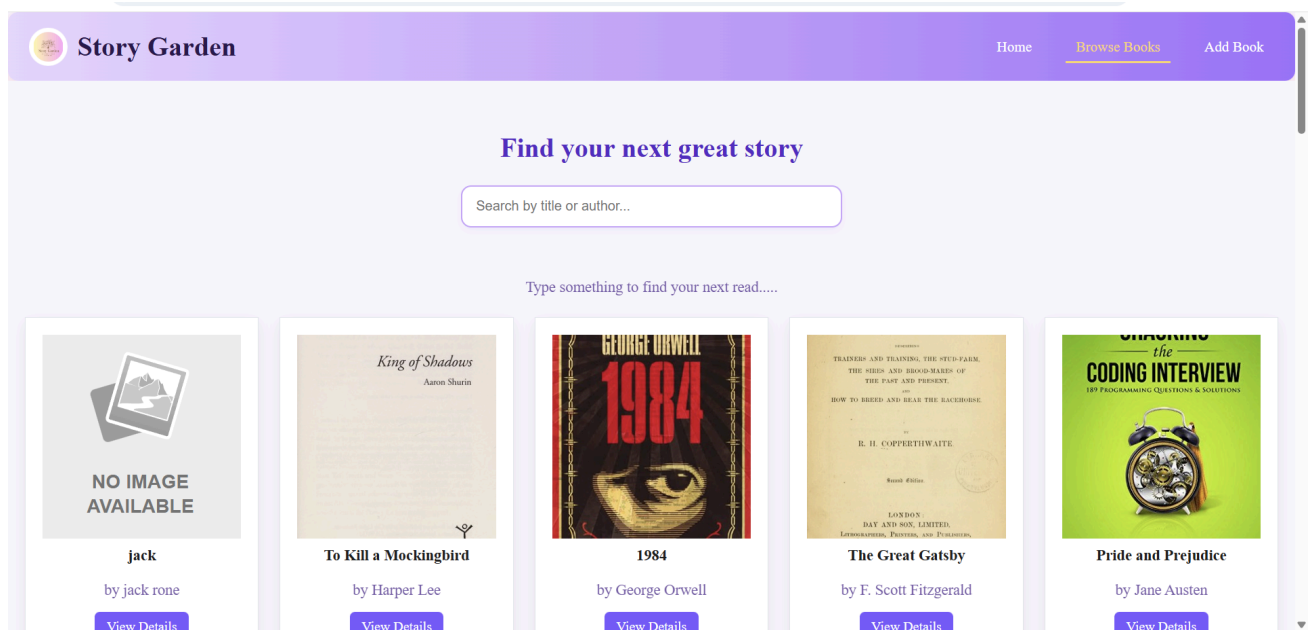
Live : <https://book-library-brown.vercel.app/>

User Interface:

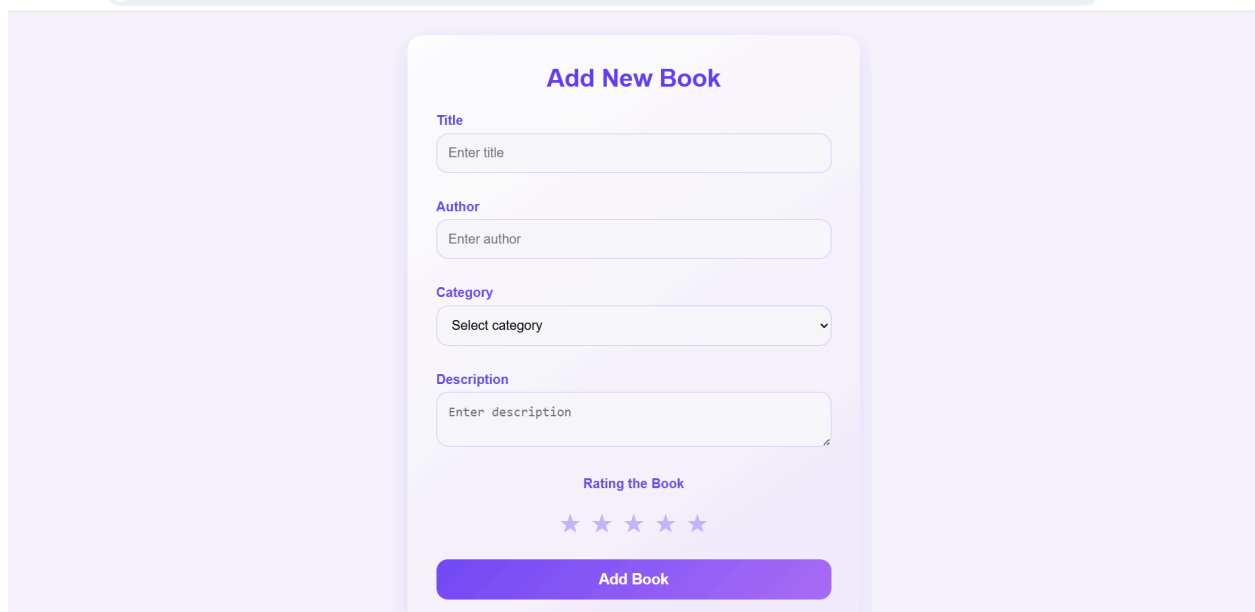
Landing Page:



Browse Books with SearchBar:



Add Book:



The image shows a web form titled "Add New Book" centered on a light purple background. The form is a white rounded rectangle with a purple border. It contains the following elements: a title label and input field, an author label and input field, a category label and a dropdown menu, a description label and a text area, a rating section with five stars, and a purple "Add Book" button at the bottom.

Add New Book

Title
Enter title

Author
Enter author

Category
Select category

Description
Enter description

Rating the Book
★ ★ ★ ★ ★

Add Book

DetailsPage:

