**Online-Library-System**

GitHub repository

<https://github.com/Vaibhav-Dewangan/Online-Library-System.git>

**Online Library System**

**Overview**

**This is a simple React-based application where users can browse books, add new ones, search for specific titles, and explore different categories. It’s designed to be lightweight, user-friendly, and extendable.**

**Features**

* **Browse by Category: Books are categorized into Fiction, Non-Fiction, and Academic.**
* **Add New Books: Easily add books with a rating and category.**
* **Search Functionality: Quickly search through the collection by title.**
* **Responsive Design: Works on mobile, tablet, and desktop devices.**
* **Redux for State Management: Ensures smooth state handling across components.**
* **Error Handling for Invalid Routes: Takes care of navigating to non-existent pages gracefully.**

**Usage**

**Browsing Books**

* **Go to the homepage to see the available book categories.**
* **Select a category to browse books within it.**
* **Click on any book to see its details.**

**Searching for Books**

* **Use the search bar to find books by their title quickly.**

**Adding New Books**

* **Navigate to the "Add Book" page.**
* **Fill in the book’s title, category, and rating, and submit the form to add the book to the collection.**

**Redux State Management**

**The app uses Redux to handle the global state. This ensures that data such as the book list can be accessed and updated consistently throughout the app.**

**Key Redux Files:**

* **bookSlice.js: Contains the logic for adding books and fetching the list of books.**
* **appStore.js: Configures the Redux store.**

**Routing**

**The app uses React Router for navigating between pages:**

* **Home (/): Displays the different book categories.**
* **Browse Books (/BrowseBook): A searchable list of all available books.**
* **Add Book (/AddBook): A form to add new books.**
* **Category Books (/books/:category): Displays books within a specific category.**
* **View Details (/books/viewDetail/:id): Shows detailed info about a specific book.**
* **404 Page: Redirects to an error page for invalid routes.**