Project Description

This project involves the creation of an admin dashboard for a Library Management System. The dashboard allows users to manage book and author details efficiently. The system is designed to provide functionalities such as adding, editing, and deleting book and author records. Formik is used for form validations to ensure data integrity.

Key Features

1. **Book Management**
   - Users can manage book records, including details such as title, author, ISBN number, and publication date.
     - Supported actions:
       - Add new book records
       - Edit existing book records
       - Delete book records

2. **Author Management**
   - Users can manage author records, including author's name, birth date, and a short biography.
     - Supported actions:
       - Add new author records
       - Edit existing author records
       - Delete author records

3. **Form Validations**
   - Formik is used to validate all forms within the dashboard, ensuring data accuracy and preventing incorrect or incomplete submissions.

4. **Responsive Design**
   - The dashboard features a clean and responsive design, making it easy to use and navigate across different devices and screen sizes.

Project Workflow

1. **Login Page**
   - Users start at the login page, where they enter their credentials to access the admin dashboard.

2. **Home Page**
   - After successful login, users are directed to the home page.

- The home page contains two buttons: "Book Details" and "Author Details."

3. **Book Details**
   - Clicking the "Book Details" button navigates users to the book details page.
   - Here, users can view a list of books with information such as title, author, ISBN number, and publication date.
   - Supported actions:
     - **Add Book**: Users can navigate to the add book page to fill out a form for adding a new

book record.
     - **Edit Book**: Users can navigate to the edit book page to modify existing book records.

     - **Delete Book**: Users can delete book records.

4. **Author Details**
   - Clicking the "Author Details" button navigates users to the author details page.
   - Users can view a list of authors with details like the author's name, birth date, and a short biography.
   - Supported actions:
     - **Add Author**: Users can navigate to the add author page to enter details for a new author record.
     - **Edit Author**: Users can navigate to the edit author page to modify existing author records.
     - **Delete Author**: Users can delete author records.

5. **Database (db.json)**
   - The application interacts with a database (e.g., `db.json`) to store and retrieve book and author records.
   - The database maintains data integrity and ensures that changes made through the dashboard are persisted.

Technologies Used

- **React**: The front-end of the admin dashboard is built using React, providing a dynamic and responsive user interface.

- **Formik**: Formik is utilized for form management and validation, ensuring that data entered by users is accurate and complete.

- **React Router**: React Router is used for navigation within the application, allowing users to switch between different pages and sections seamlessly.
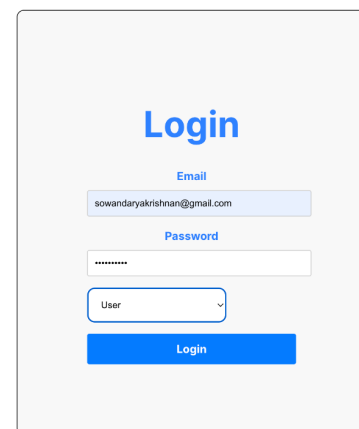
- **Responsive Design**: CSS and responsive design principles are applied to ensure the dashboard looks and functions well on various devices and screen sizes.

- **JSON Server**: A JSON server (e.g., `db.json`) is employed as a backend to store and manage book and author records.

Conclusion

The Library Management System Admin Dashboard provides a user-friendly interface for administrators to manage book and author details efficiently. It employs modern web technologies to ensure data accuracy and responsive design for a seamless user experience. The use of Formik for form validations enhances the reliability and integrity of the data entered into the system.
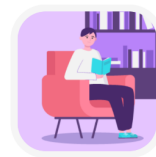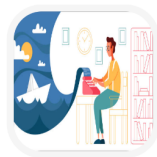
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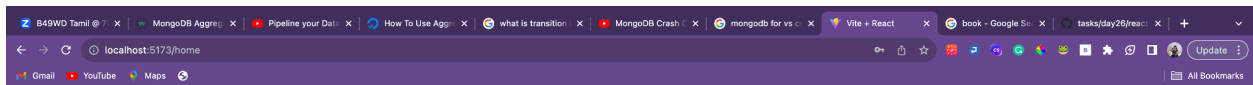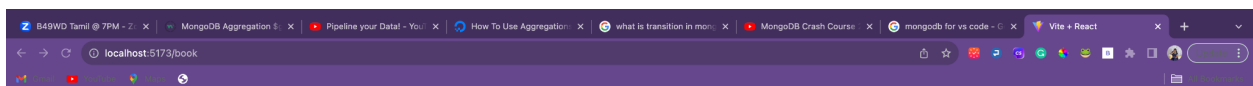
CLick any image below to see details

Book Details   ## Author Details

localhost:5173/book

ADD

id	title	author	ISBN_number	publication_date	
1	Harry Potter	J. K. Rowling	1338878921	26 June 1997	Update Delete
2	Atomic Habits	James Clear	1338878922	16 October 2018	Update Delete
3	The Great Gatsby	F. Scott Fitzgerald	1338878924	16 October 2020	Update Delete
4	he Catcher in the Rye	J. D. Salinger	13388789244	1945–46	Update Delete

Add Book Details

Enter your title

Create author name

Enter ISBN_number

dd / mm / yyyy

Submit

Edit Book

Harry Potter

J. K. Rowling

1338878921

dd / mm / yyyy

Update
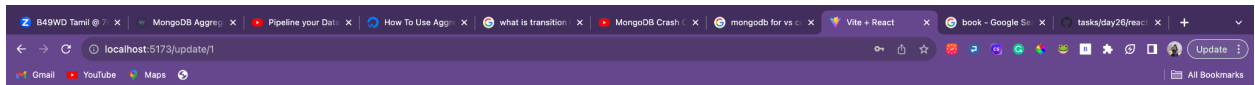
ADD

id	name	birth_date	biography	
1	J. K. Rowling	31 July 1965	Joanne Rowling (born 31 July 1965), best known by her pen name J. K. Rowling, is a British author and philanthropist. She wrote Harry Potter, a seven-volume fantasy series published from 1997 to 2007. The series has sold over 600 million copies, been translated into 84 languages, and spawned a global media franchise including films and video games. The Casual Vacancy (2012) was her first novel for adults. She writes Cormoran Strike, an ongoing crime fiction series, under the alias Robert Galbraith.	Update Delete
2	James Clear	James Clear	James Clear is a writer and speaker focused on habits, decision making, and continuous improvement. He is the author of the #1 New York Times bestseller, Atomic Habits. The book has sold over 5 million copies worldwide and has been translated into more than 50 languages.	Update Delete
3	F. Scott Fitzgeral	24 September 1896	Francis Scott Key Fitzgerald was an American novelist, essayist, and short story writer. He is best known for his novels depicting the flamboyance and excess of the Jazz Age—a term he popularized in his short story collection Tales of the Jazz Age.	Update Delete