Library Management System Interview Data Formatting:

1. Introduction:

We have developed a Library Management System for this interview project. The system allows users to explore and order books from three different categories: Sci-Fi, Fiction, and Comedy. Users need to be logged in to access the categories and place book orders. The project is divided into two main components: the front-end built using React with Material UI, and the back-end developed using Django Rest Framework. Let's delve into the details of each component.

2. Book Categories:

The Library Management System features three categories of books:

- **Sci-Fi:**
  - The Lost World
  - Dune

- **Fiction:**
  - Alchemist
  - Brave New World

- **Comedy:**
  - Champak
  - Tenaliraman

3. Customer User Table:

The system maintains user information in a customer user table with the following fields:

- Name
- Phone
- Email

- Address

- College

Only users who are logged in can access the book categories and place orders.

4. Front-End (React using Material UI):

The front-end is developed using React and Material UI. Key features include:

- User Signup Form using Formik and Yup validation.

- Consumption of Django REST API using Redux Toolkit.

- Dashboard:

  - Displaying users with assigned books.

  - A separate dashboard to display all books on a single page.

5. Back-End (Django using Django Rest Framework):

The back-end is built using Django Rest Framework. Notable functionalities include:

- User authentication using Simple JWT token.

6. Interview Focus:

For this interview, we will primarily discuss and evaluate your understanding of building the Library Management System. The interview will be based on your knowledge without assistance from ChatGPT or other AI tools. You are expected to elaborate on the following aspects:

- Creating and categorizing books.

- Designing and structuring the customer user table.

- Explaining the significance of user authentication.

- Describing the development of the React front-end:

  - User signup form implementation with Formik and Yup.

  - Integration of Redux Toolkit for consuming Django REST API.
  - Functionality of the user and book dashboards.
- Detailing the construction of the Django back-end:
  - Utilizing Django Rest Framework for building the API.
  - Explanation of the authentication process using Simple JWT token.

We are excited to learn about your knowledge and approach to building this Library Management System!