## **GDGOC PIEAS REACTJS BOOTCAMP 2024**

# **Assignment Day 04**

**Enhancing Library Manager with Async Functions, useContext, and Local Data Fetching** 

#### **Task Details:**

1. Work in the same project as in the previous 2 assignments.

### 2. Simulate API Fetching with Local JSON File:

- Create a books.json file in the src folder.
- In this file, store an array of book data. Each book should have an id, title, author, rating, and genre. You can create some sample books for testing.

#### **Example JSON file:**

#### 1. **Step 1:** Setup Context API and Async Data Fetching

- Use the useContext hook to manage global state for your app, allowing data to be shared across components.
  - Create Context for the books data, borrowed books, and favorite books.
- Fetch the book data asynchronously using the Fetch API inside a useEffect hook.

  This will simulate an API call to fetch the book data from the local books.json file.
- Create a context in App.js that provides the data (books, borrowed books, favorite books) to the child components.
- Use useEffect to fetch the book data when the app loads.

### 2. Step 2: Create the BookCard Component

BookCard is responsible for displaying the details of an individual book.

This component should receive title, author, rating, and genre as props. •

Inside BookCard, create two buttons: Add Me and Favorite.

- The Add Me button should add the book title to the borrowedBooks array when clicked.
- The Favorite button should add the book title to the favBooks array when clicked.

#### 3. Step 3: Create the BookList Component

- BookList will display all books by using the useContext hook to access the books array from the context.
- It will map over the books array and render a BookCard for each book.

## 4. Step 4: Create BorrowedBooks and FavBooks Components

- BorrowedBooks will display a list of borrowed book titles.
  - This component should use useContext to access the borrowedBooks array and render each book in a list.
- FavBooks will display a list of favorite book titles.

<ul> <li>This component should use useContext to access the favBooks array and render each book in a list.</li> </ul>	