**High-Level Design (HLD)**

**Components**

1. **User Interface (UI)**
   * **Description**: Allows users to interact with the system for searching books, and viewing recommendations.
   * **Technologies**: HTML, CSS
2. **Recommendation Engine**
   * **Description**: Generates personalized book recommendations using content-based and collaborative filtering methods.
   * **Technologies**: Pycharm, Jupyter Notebook

**Data Flow**

1. **User Interaction**
   * Users interact with the UI to input preferences, view recommendations, and rate books.
2. **Request Handling**
   * The UI sends requests to the API layer with user data and preferences.
3. **Data Processing**
   * The API layer communicates with the recommendation engine and database to process the data and generate recommendations.
4. **Response Delivery**
   * Recommendations are returned to the UI for user display.