## **Functional Requirements**

### **User Features**

1. **User Registration and Login**
   * **Register**: Users can sign up using basic details like name, email, password, and optional mobile number.
   * **Login**: Users can authenticate using email and password.
2. **View Books**
   * Users can view the list of books with details like title, author,description,publish date , and availability status.
3. **Borrow Books**
   * Users can request to borrow an available book.
   * The system will set a **due date** (configurable, e.g., 14 days) ENV Setup.
4. **Return Books**
   * Users can return a borrowed book.
   * If returned after the due date, a fine will be calculated.
5. **View Borrowed Books**
   * Users can view the list of books they currently have borrowed and their respective due dates.
6. **Pay Fines**
   * Users can pay fines online for late returns.

### **Admin Features**

1. **Manage Books**
   * **Add Books**: Add new book records with details ( title, author,description,publish date , and availability status.).
   * **Update Books**: Modify book details.
   * **Delete Books**: Remove book records from the database (only available , soft delete).
2. **Manage Users**
   * **View Users**: See a list of all registered users with details.
   * **Delete Users**: Remove a user's account (only if they have no borrowed books or outstanding fines).
3. **View Books with Status**
   * Admin can view all books with their current status:
     + **Available**: Not currently borrowed.
     + **Borrowed**: Currently issued to a user (along with borrower details and due date).
4. **Track Borrowers**
   * Admin can view a list of all users who have borrowed books, along with details of borrowed books.
5. **Configure Fine Settings ENV File Setup**
   * Admin can configure the fine amount per day for late returns.