Assignment

Course Code : CSE 305 Course Title: Software Engineering

Submitted By

Aditi Datta Purkayastha
Student ID: 2002073
Level: 3. Semester: I
Department of Computer Science and Engineering
Faculty of Computer Science and Engineering

Submitted To

Pankaj Bhowmik

Lecturer

Department of Computer Science and Engineering
Faculty of Computer Science and Engineering



Hajee Mohammed Danesh Science and Technology University
Dinajpur

Project Title: Book Exchange Platform

SDLC Model: Waterfall

The book exchange platform aims to connect users within a community to facilitate the exchange, borrowing, or lending of books. It serves as a centralized hub where members can list their books, browse available titles, request books from other users, and manage their borrowing/lending activities

1. Requirements Gathering:

Gathering functional requirements involves enabling users to create profiles, list books, search, request titles, use communication tools, and implement a feedback system.

2. System Design:

System design includes detailed architecture planning, frontend and backend component design, and creation of UI/UX wireframes and mock-ups.

3. Implementation:

Implementation covers frontend development with React or Angular, backend work with Django, Flask, or Java for handling user authentication, book listing, and requests.

4. Testing:

Testing stages encompass unit testing, integration testing, system testing for overall performance, and User Acceptance Testing (UAT) with real users.

5. Deployment:

Deployment involves hosting the platform on services like Heroku, AWS, or Azure while configuring for optimal performance.

6. Maintenance & Support:

- Continuous support for users, addressing queries, and troubleshooting issues.

- Incorporation of user feedback for platform improvements.

- Addition of new features and updates as needed.

Tools & Technologies:

Programming Languages: Java, JavaScript

Databases: MySQL

Testing: JUnit