FINAL REPORT

1. INTRODUCTION

1.1 Project Overview

Booknest: Where Stories Nestle is an innovative platform designed to streamline the process of discovering, sharing, and managing books for readers and book lovers. It serves as a centralized hub for exploring new releases, reviews, personal libraries, and community discussions.

1.2 Purpose

The purpose of Booknest is to provide an engaging, user-friendly platform for book enthusiasts to discover and organize books, interact with a like-minded community, and enhance their overall reading experience.

2. IDEATION PHASE

2.1 Problem Statement

There is a lack of an integrated digital space where book lovers can seamlessly explore books, track their reading progress, interact with others, and manage their collections.

2.2 Empathy Map Canvas

Includes details of user thoughts, feelings, pains, and gains regarding book discovery and management.

2.3 Brainstorming

Ideas ranged from building a digital bookshelf, to social interactions, to personalized recommendations based on user behavior.

3. REQUIREMENT ANALYSIS

3.1 Customer Journey map

Tracks user engagement from landing on the site, exploring books, signing up, managing personal library, and engaging in the community.

3.2 Solution Requirement

Must support user authentication, book search, library creation, review systems, and community features.

3.3 Data Flow Diagram

A visual representation of how data flows within Booknest, covering user interactions, database access, and APIs.

3.4 Technology Stack

Frontend: React.js
Backend: Node.js/Express
Database: MongoDB
Hosting: Vercel/Netlify for frontend, Render/Heroku for backend

4. PROJECT DESIGN

4.1 Problem Solution Fit

Booknest effectively addresses the gap between readers' desire for organized book management and the lack of integrated platforms.

4.2 Proposed Solution

A full-stack web application where users can search, save, and review books, and join reading communities.

4.3 Solution Architecture

A modular, scalable architecture using REST APIs, microservices for scalability, and responsive frontend design.

5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

The project is planned over 5 sprints: Ideation, Design, Development, Testing, and Deployment.

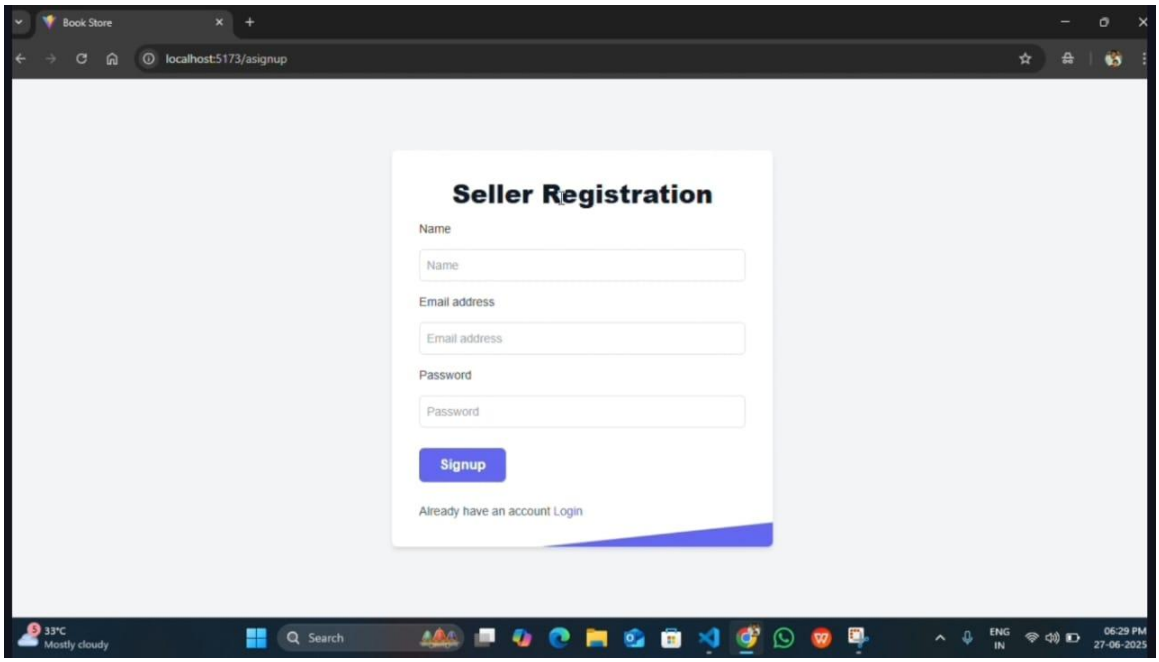
6. FUNCTIONAL AND PERFORMANCE TESTING

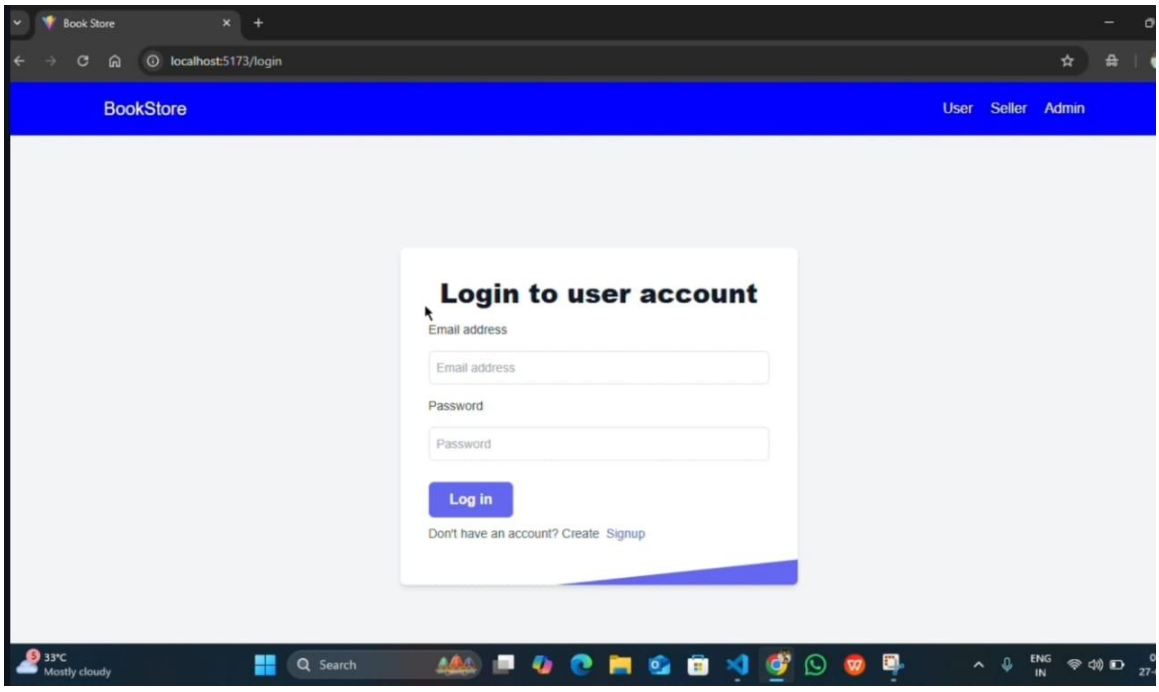
6.1 Performance Testing

Testing was done using JMeter and Lighthouse. The application supports 100+ concurrent users with fast loading times.

7. RESULTS

7.1 Output Screenshots





8. ADVANTAGES & DISADVANTAGES

Advantages:
- Easy book management
- Social interaction
- Personalized suggestions

Disadvantages:
- Requires internet
- Limited offline features

9. CONCLUSION

Booknest successfully brings together functionality and community for book lovers, filling a digital void in the reading ecosystem.

10. FUTURE SCOPE

Mobile app integration, AI-based recommendations, voice-assisted navigation, and multilingual support.

11. APPENDIX

Source Code: [https://github.com/jyothi-it/Booknest-where-stories-nestle]
GitHub & Project Demo Link: [https://github.com/jyothi-it/Booknest-where-stories-nestle]