SYNOPSIS

ON

Book-Library System

Submitted By: **Submitted To:**

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Title of the Project

Divine Library

(Book Library System)

Objective

The main objective of the Book Library System project is to create a modern, efficient, and user-centric platform that optimizes library management processes, enhances user experience, and promotes the broader goals of education.

Scope

Our project encompasses the development of a comprehensive library management system, covering aspects such as cataloging, circulation, patron management. It includes functionalities for both librarians and patrons, focusing on optimizing resource utilization and enhancing accessibility to library resources.

Methodology

We plan to use **HTML**, **CSS**, and **JavaScript** and **React** for the front-end development and **NodeJs** for the Backend Development.

Proposed System

The proposed Book Library System will serve as a centralized platform for managing all library operations. It will feature an intuitive and user-friendly interface for patrons to search, borrow, and return books seamlessly. For librarians, the system will provide tools for cataloging, managing inventory, generating reports, and monitoring library activities.

Features

- Online Book search and reservation.
- Student account management with borrowing details.
- Librarian dashboard for cataloging and inventory management.
- User feedback and ratings for book recommendations.

Implementation Plan

1. Project Initiation
2. Front-end Development
3. Back-end Development
4. Database Integration
5. Testing
6. Deployment

Team Members

Vishnukant Shukla – Worked on NodeJs, MongoDb.
Piyush Varshney – Dealing with deployment and handling routes.

Prakhar Mittal- Implementation of UI and worked on database Schema
Shantanu Singh - Design of UI and worked on Authentication.

Resources Required

- Development tools (IDEs , text editors)
- Web Development frameworks
- Database management Software
- Security and encryption tools

Reference

- Web Development with HTML,CSS, and JavaScript
- Online Tutorials and documentation for web development frameworks like-
1. https://expressjs.com/
2. https://mongoosejs.com/
3. https://react.dev/
4. https://getbootstrap.com/
5. https://tailwindcss.com/
6. https://nodejs.org/en

Expected Outcomes

The project aims to deliver a fully functional Book Library System that improves library operations, enhances user experience. The expected outcome includes a deployed system ready for use by both library staff and students.

Project Supervisor

Mr. Monu Kumar

Mr. Samarth Vohra

Conclusion

The Book Library System project seeks to modernize and optimize library operations, aligning with the evolving needs and expectations of users in the digital age. By leveraging technology and best practices in software development, the project aims to create a robust and user-centric system that fosters a seamless and enriching library experience for all stakeholders.