

Statement of Work (SOW)

Project Title: Library Management: Book Issue and deposit

Date: February 5, 2025

Prepared By: Mahindra University

Introduction

This Statement of Work (SOW) outlines the objectives, scope, deliverables, and responsibilities for the development of a **Library Management System** that automates book issuance and deposit using barcode scanning. The project aims to enhance efficiency, reduce manual errors, and improve user experience for both librarians and students.

Scope of Work

The project involves developing a **mobile application** that enables library staff and users to issue and deposit books by scanning barcodes. The system will integrate a database to store and manage book transactions and user details.

Objectives:

- Develop a **barcode-scanning feature** for issuing and returning books.
 - Implement a **database** to manage user and book records.
 - Design a **user-friendly interface** for librarians and students.
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3. Deliverables

- **UI/UX Design:** Designing user interface prototypes (21st February,2025)
 - **Feature Development:** Implement barcode scanning (14th March,2025)
 - **Database System:** Creating a backend database for managing books and users (30th March,2025)
 - **Testing and Debugging:** Unit testing, Integration testing; Identifying, analysing, and fixing any software bugs (April 13th,2025)
 - **Mobile Application (Final): Library Management App (May 7th ,2025)**
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4. Timeline and Milestones

Milestone	Description	Due Date
Project Kickoff	Initial project meeting	February 7 th , 2025
Phase 1 Completion	Creating prototype	March 30 th , 2025
Final Delivery	Submission of all deliverables	May 7 th , 2025

5. Roles and Responsibilities

Project Manager, Tester – Jagadeep (SE22UCSE204)

Lead Developer – Tarun (SE22UCSE236)

Frontend Developers – Tejas (SE22UCSE205) ; Rohit (SE22UCSE241)

Backend Developers – Anish (SE22UCSE211) ; Samprith (SE22UCSE239)

UI/UX Designers – Rishi (SE22UCSE221)

7. Assumptions and Constraints

List any assumptions and constraints that may impact the project.

- **Assumptions:**
 - Library provides a **list of books and user credentials** for integration.
 - Users have **access to necessary devices** (smartphones, computers).
- **Constraints:**
 - Limited **budget and resources** for system development and maintenance.
 - Barcode scanning accuracy depends on **device quality and lighting conditions**.
 - Compliance with **data privacy and security regulations**.