8. Schedule

Month	Milestone
1	Requirement analysis, Coordinate with govt bodies.
2	User registration form submission
3	Document upload, scheduling, biometric capture.
4	Verification and police clearance modules
5	Notifications, data & dash boards.

* Budget Breakdown

Component	Estimated cost
Development Team (6 ppl)	$ 200,000
Biometric + Security System	$ 60,000
Infrastructure	$ 60,000
QA, legal and compliance	$ 50,000
Project Management & Training	$ 80,000
TOTAL	$ 100,000

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2. General Description
Applicants register, fill forms, upload documents, and book appointments. officials verify and approve applications. Status updates are automated

3. Functional Requirements
- Users registration and Logins.
- online forms submission and documents upload

4. Interface Requirements
Web portal for applicants and admin dashboards for officials. Interface with national ID and police databases.

5. performance Requirements
Support 1000+ daily applications. Application load time under 3 ~~sec~~ s.

6. Design Constraints
- Must integrate with government identity and police database.
- Biometric data capture must be supported and encrypted.

7. Non-Functional Requirements
- System should handle up to 5,000 applications/day.
- 99.95% uptime is required for government service
- Data must be encrypted and stored securely.

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5) Passport Automation System

* Problem Statement:
The passport Automation System simplifies the passport application and issuance process. It supports form submission, document verification, appointment scheduling, and status tracking. The system reduces manual errors and accelerates processing. Integration with government databases is essential.

* SRS Document:

1. Introduction:
This document outlines the development of an online passport automation system to streamline the application and verification process.

1.1 purpose
To reduce paperwork, speed up passport services, and provide transparency to applicants through digital workflows.

1.2 Scope
Covers online application, document uploads, appointment management, biometric capture, and status tracking.
~~Capture as~~

1.3 Overview
Describes system modules, service flow, functional interfaces, and infrastructure requirement for development.

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8. Schedule :-

Month	Milestone
Month 1	Requirement, DB setup, UI design
2	Stock operations, low-stock alerts
3	Reporting, testing, deployment, training

Budget Breakdown :-

Component	Estimated Cost
Developer salaries	$ 30,000
UI Designs & Admin panel	$ 5,000
Hardware	$ 5,000
QA & Testing	$ 5,000
Misc. & Support	$ 5,000
TOTAL	$ 50,000

5)

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2. General Description :-
System maintains product lists, stock counts, and vendor details, it provides dashboards for real-time stock overviews and reorder alerts.

3. Functional Requirements :-
- Add / edit / remove stock items.
- update stock levels based on sales / purchase
- Generate low-stock alerts.

4. Interface Requirements :-
User-friendly GUI with role-based access. Interface with barcode scanners and accounting software.

5. Performance Requirements :-
System should update stock changes within 1 second. Handle 100 + users.

6. Design constraints :-
- Must integrate with barcode scanners and POS system
- Should use a centralized relational database.
- Must be deployable on both local servers and Cloud.

7. Non-Functional Requirements :-
- Accuracy in inventory data must be 99.9%.
- Real-time update with less than 1s delay.
- Minimal downtime during updates or backups.

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1) Stock Management System

*Problem statement :
A stock maintenance system tracks product inventory across warehouses and retail points. It monitors stock levels, reorders and reports. The system prevents overstocking and shortages. Real-time updates and alerts are necessary. It support multi-location stock management.

*SRS Document :

1. Introduction :-
This document specifies the stock tracking and maintenance system to manage inventory levels and streamline restocking.

1.1 Purpose :-
To maintain accurate, up-to-date stock information and automate reorder process to reduce manual errors.

1.2 Scope :-
covers inventory management, stock tracking, automatic reorder alerts, and inventory movement logs across locations.

1.3 Overview :-
Includes system modules, interfaces, performance benchmarks, and development constraints for implementation

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7. Non-Functional Requirements

i) 24/7 System availability during academic term.
ii) Search results must return within 2 seconds.
iii) Regular backups to prevent data loss.
iv) Interface should support screen readers.

8. Schedule (4 months)

Month	Milestone
1	Requirement gathering, DB design, basic
2	Core modules (Borrowing, Search, Return)
3	Fine Manage.

2. General Description
The system manages users and book inventory. Users can borrow/return books based on privileges. Admins can add/remove books and handle fines.

3. Functional Requirements
- user login and registrations.
- Search, reserve, borrow, and return books.
- Fine calculation for overdue items.
- Admin control for inventory management

4. Interface Requirements
web interface for users and staff. Admin panel for management. Backend interfaces with a database.

5. Performance Requirements
System should handle 500+ concurrent users. Search and checkout operations should be under 2 seconds.

6. Design Constraints
i) System should use a relational database (eg. MySQL, PostgreSQL)
ii) Must run on existing institutional hardware
iii) Should support future integration with e-library system.
iv) Interface must follow WCAG accessibility standards.

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3) Library management System

* Problem Statement :

The Library Maungement System aims to streamline the borrowing, returning, and tracking of books in a library. It will manage users, inventory, fines and reservations. The System supports both physical and digital resources. It should offer efficient search and digital resources. It should offer efficient search and reporting. User access control is required.

* SRS Document

1. Introduction :-

This document outlines the requirements for an automated library management System. It facilitates book lending, cataloging and fine management.

1.1 Purpose :

The purpose is to automate library workflows, improve tracking, and enhance services for students, faculty and librarians.

1.2 Scope :

The System will allow users to search, reserve, borrow, and return books. It will manage inventory, user roles, fines, and generate reports.

1.3 Overview :

This document details functional components, user interfaces, performance needs, and constraints for System development.

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3) Functional Requirements

- Validate card details.
- Process payments and refunds
- Generate transaction reports
- Support multiple payment methods

4) Interface Requirements:
Supports web browsers, mobile app & merchant pos devices connects w/ bank & Services.

5) Performance req
transaction in 3 ~~requirements~~. sec.

6) Non- functional attributes

busy hour. It can handle 10,000 users and 20 peak bookings.

Interface & performance:

Supports chrome, Firefox, and IE. Data updates within 2s, queries within 5s, UI loads under 2s. and inquiries answered within 5s

Schedule & Budge

Development follows design, build, test and deployment phases, serving as a foundational budge project in hotel automation.

(2) Credit Card processing System - SRS

1. Introduction (Purpose, Scope, over view):

This system is designed to handle credit card payments securely and quickly. The purpose is to allow customers, merchants, and banks to complete transactions online or in-store. The scope covers card validation, payment approval. The system provides fast, safe, and reliable services.

2. General Description:

Users include customers (making payments) merchants (accepting), and banks (authorizing transactions). The system uses secure servers, encryption, and runs on web and mobile platforms.

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(1)

Hotel management system SRS document

Introduction

Purpose: The Hotel Management System (HMS) is designed to automate hotel operations, focusing on online reservations, customer data management, and secure transactions. Its purpose is to provide an efficient, secure and user-friendly platform. The scope covers customers, receptionists and managers, ensuring streamlined booking and data management.

General Description

HMS includes customer booking and payment, receptionist booking management, and manager reporting. It uses windows OS, Apache Tomcat, MongoDB and Java. Constraints include 10GB storage, English-only support, and a simple design because of budget.

(2)

Main features: functional requirements

- Register and log in
- check room availability and book or cancel
- Receptionist update bookings and answers queries
- Manager checks reports and edits room info
- online card payments.

Other Details: Non functional requirements

The system works on all browsers, responds in seconds, keeps data secure, and makes backup.

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