

Hotel Management

• Problem Statement, (Title)

A software is required to manage hotel bookings, staffs, rooms, visits, check-in, check-out, billing & report generation for smooth working.

1) Introduction SRS

1.1) Purpose → To provide a software for hotel management

1.2) Scope → The system will handle reservations, check-ins, check-outs, payments, & generate reports. It saves time.

1.3) Overview → A simple system to manage hotel operations digitally.

2) General Description

→ The system will allow users to book rooms, manage staff details, billing details & maintenance.

3) Functional requirements

- Room booking & cancellation
- Check-in & check-out management
- Payment & billing system
- Staff record management
- Report generation

food
Spa
gym

4) Interface requirements

- User login & Signup
- Details manipulation

- Records database

5) Performance requirements

- Fast processing of bookings
- Concurrent user control
- Low error rate Easy Cancel

6) Design constraints

- Must be multi-platform
- Requires internet

7) Non-functional attributes

- Data security
- Low latency
- Minimal interface
- Data backup support

8) Preliminary Schedule & Budget

Estimate ~~400~~²⁴ ~~months~~^{weeks} for development with moderate budget covering software tools, server & manpower (approx ₹200000)

Table

Processing

Credit Card Automation System

Problem statement

A software is required to automate credit card approvals, billing & fraud detection.

SRS

1) Introduction

1.1) Purpose → To automate the entire process of credit card handling & services

1.2) Scope → The system will handle card approvals, payments, fraud detection, etc.

1.3) Overview → A secure & efficient system for credit card users & banks

2) General Description

The system allows customers to ~~make~~ use credit card services very smoothly.

3) Functional requirements

- Transaction processing
- User authentication
- Fraud detection system
- Bill generation

4) Interface Requirements

- Secure login for customers and admin
- Transaction history display
- Low error rate

5) Performance requirements

- High processing speed
- 24/7 system availability
- minimum failure rate

6 > Design Constraints

- Requires secure encryption
- must follow banking regulations

7 > Non-functional attributes

- security & reliability
- Scalability for larger user base
- Cross platform

8 > Preliminary Schedule & Budget

30
weeks

Development in ~~6-8~~ months, requires higher budget due to security & regulation costs. (approx ₹100000)

Library Management System

• Problem statement

We need a software to handle book records, issues records, members data & return / borrow of books.

SRS

1) Introduction

- 1.1 > Purpose → To automate book return, issue, & record management in libraries
- 1.2 > Scope - The system will manage book catalogues, members & borrowing transactions.
- 1.3 > Overview → A digital solution to library management

2) General description

- The system will maintain details of books, members, & issue / return records. It will reduce manual work & save time.

3) Functional requirements

- Book search & catalog management
- Member registration & records
- Book issue & return tracking
- Report generation

4) Interface requirements

- Login for librarian & admin
- Search option for books
- Database for records

5. Performance requirements

- Quick search & updates
- Consistency control
- Fast startup

6. Design constraints

- Works on local computers or web-based
- Requires database system

7. Non-functional Attributes

- Data security & reliability
- Easy to use for librarians
- Scalability for large libraries

8. Preliminary Schedule & Budget

estimated ~~3-4~~²⁰ weeks/months of development with low to medium budget (approx ₹ 100000).

Stock Maintenance System

Problem Statement

- A software for stock maintenance system

SRS

1> Introduction

1.1> Purpose : To maintain & manage stock records efficiently saving time & efforts

1.2> Scope : The system helps organisations track available stocks, update sales/purchase details, & generate reports

1.3> Overview : The software provides automated stock management for businesses.

2> General description

- The system will maintain track of available stocks, generate reports & update stock details, which will reduce manual labour & save time

3> Functional requirements

- Add new stock item
- Update stock or sales/purchase
- Generate daily/monthly reports
- Notify price drops

4> Interface requirements

- UI for admin/staff
- Stock search option
- Database for records

5) Performance requirements

- Must handle atleast 2000 transactions/day
- Response time < 2 seconds
- ~~Do~~ high fault tolerance

6) Design constraints

- Should be cross-platform
- Concurrency control

7) Non-functional Attributes

- Data security & encryption
- Backup & recovery support
- Scalable for huge userbase

8) Preliminary schedule & Budget

Phase	Duration (in weeks)	Cost (in ₹)
Analysis	2	2000
Development	4	3000
Testing	2	1000
Total	8	6000

Passport Automation System

Problem Statement

→ A software for passport automation system

SRS

1) Introduction

1.1) Purpose : To automate passport applications, verification & issuance

1.2) Scope : The system allows users to apply online, schedule appointments, upload documents, track status & raise queries

1.3) Overview : A web-based solution that streamlines passport services.

2) General description

~~Objective~~ : The system will maintain passport status & will deal with passport related services, hence reducing time & manual labour.

3) Functional requirements

- User login/registrations
- Online application submissions
- Document verification
- Status tracking

4) Interface requirements

- Web interface for users & officials
- SMS/email service
- Database connectivity

5) Performance requirement

- Should handle 10000+ concurrent application
- Response time < 2 seconds

6) Design constraints

- Govt. security standard compliance
- Cross-platform compatible

7) Non functional attributes

- Security : Data encryption
- Backup & recovery support
- Scalability for huge userbase

8) Preliminary schedule & budget

Phase	Duration (in weeks)	Cost (in ₹)
Analysis	4	2000
Development	5	5000
Testing	3	2000
Total	12	9000