

## Generate SRS Model Document

### 1. Hotel Management System

#### Functional

- Booking management
- Login/logout management
- Food management
- View rooms
- Help desk
- Finance management
- Luggage management

- Security
- Standard
- ~~Hygiene~~
- Usability
- Integration

#### Domain requirement

- Security & safety standards
- Use specific terminology
- Comply with hotel standards

Problem Statement: Developing System requirement for hotel management via online resources and helping people in booking rooms and ordering food during travelling/in need.

Slope: Travellers, business meets, dine, parking requires and others.

Classes: Hotel, room, Payment, Guest, reservation.

## 2. Credit Card processing System:

Problem Statement: Creating a credit card processing which helps people making successful transactions efficiently and securely without the fear of losing the money.

Scope: online shopping, hotels, malls, and other region.

### Functional

- Card validation
- Card type
- Transaction settlement
- Reward
- History information

### non-functional

- Security
- Usability
- Availability

### Scalability

- Domain requirement
- Secure card data storage & transmission
  - Support multi-card card type
  - Comply with credit card company rules

classes: Credit card, Transaction, payment gateway, merchant, payment method.

## 3. Library management System (LIBMS)

problem statement: overcoming the manual tracking - library books, members and transactions can result in loss of books, fine disruptions and inefficiency. A LIBMS is required to automate the management of the book inventory, member registrations and transactions enhancing every experience and operational efficiency.

### SRS

#### 1. Introduction

##### 1.1 purpose of this document:

This document outlines the software requirements for the LIBMS, aimed at automating library operations.

##### 1.2 Scope of this document:

The document covers functional & non-functional requirements, interface requirements and performance metrics for library staff and users.

##### 1.3 Overview:

The LIBMS manages book inventory, member registration and transaction processing.

### 2. General description

- user characteristics: librarian, members
- features: catalog management, user registration, transaction processing
- Benefits: Enhanced user experience, reduced manual tasks.

### 3. Functional requirement:

- user can search for books & check availability
- system allows for book check-outs & returns
- generates overdue fines &

### 4. Interface requirement:

- user friendly interface
- external catalog databases

### 5. Performance requirement:

- High response time
- High accuracy

### 6. Design constraints:

- use of open source database
- Should work on low-resources device

### 7. Non-functional requirement:

- Usability: easy to use & operate
- Portability: should work on multi-device

### 8. Preliminary Schedule & budget:

- time: 4 months
- Budget: \$30,000 - \$100,000

classes: Book, member, staffs, transaction,

### Stock maintenance: (SMS)

#### Problem statement:

Business struggles with stock management due to manual tracking, leading to stockouts or overstocking. A stock maintenance system is essential for real-time inventory tracking, automated reordering process, and report capabilities to optimize stock levels & reduce operational costs.

#### SRS:

##### 1. Introduction:

1.1 Purpose of the document:  
This document outlines the software requirement for the stock maintenance system, aimed at optimizing inventory management.

##### 1.2 Scope of this document:

The document covers functional & non functional requirements & performance to improve stock management for business.

##### 1.3 Overview:

The system will provide real-time inventory tracking, automated reordering and reporting capabilities.

##### 2. General description:

- User characteristics: warehouse manager, sales person

- features: Inventory tracking, automated reordering, reporting.

- Benefits: optimized stock levels, reduced cost

### 3. Functional requirement:

- user can add, update and delete inventory item
- The system alert users for low stocks
- generalize inventory report.

### 4. Interface requirement

- Dashboard interface for inventory tracing
- API for integration with sales

### 5. Performance requirement:

- inventory update
- report generation

### 6. Design constraints:

- must be scalable
- needs to integrate with existing system

### 7. Non-functional requirement:

- Reliability: data integrity
- Reusability: code should be modular

### 8. Preliminary budget & time:

- budget - \$50000 - \$80000
- time: 5 months

classes: product, transaction, warehouse, staff.

### 5. Passport automation System:

Problem statement: The passport application process can be tedious and time consuming leading to user frustration and administrative delay. A passport automation system is needed to simplify the application process, enhance document verification, and improve tracking, resulting in reduction of tasks processing times and better customer service.

#### 1. Introduction

##### 1.1 Purpose of this document:

This document has the software requirement for the passport automation system.

##### 1.2 Scope of this document:

The document covers functional & non-functional requirements, interface, and performance enhance.

##### 1.3 Overview:

The system will simplify the application process, enhance document verification and improve tracking.

#### 2. General description:

- user characteristics: application, admin,
- features: application submission, doc verification, tracked
- Benefits: streamlined process, improved customer services

### 3. Functional req:

- user can submit application online
- doc verification & track app status
- generates notifications for update

### 4. Interface Requirement:

- user interface
- Backend API

### 5. Performance requirement:

- processing time
- system update

### 6. Design Constraints:

- must follow governmental regulation
- require secure storage

### 7. non functional

- Security: strict access
- Compatiblity: works with various databases

### 8. Preliminary budget Estime

time: 2 months

Budget: \$80000

Classes: applicant, passport, application  
fee, Status.

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