

Hotel Management System

1. Introduction

1.1 Purpose : The purpose of the document is to outline the requirements and specifications for the development of Hotel Management System. It will provide clear understanding.

1.2 Scope : The document defines overall working and main objective of Hotel Management system. It includes cost and time required for the project.

1.3 Overview : Software solution designed to streamline hotel operations, including reservation, check-in/out, billing, reporting and room assignment.

2. General Description : The system is designed to serve the hotel staff and management, providing features room booking, guest profiles, financial reporting.

3. Functional Requirements

3.1 Reservation : Allows user to reserve a book through online or front desk and also sends the confirmation messages.

3.2 Room Management : Assigns the rooms according to the availability.

3.3 Guest Management :

Maintain guest profiles with personal information and booking history.

3.4 Billing and Invoicing :

Generate accurate bills for additional services and taxes.

4. Interface Requirements

4.1 User Interface : → User friendly interface for staff and guests.

→ accessible web browser, mobile devices.

4.2 Integration Interface : → Integration with payment gateways.

→ Integration with third party booking platform.

5. Performance Requirements

5.1 Response Time : The system should respond to user actions in 2 seconds.

5.2 Scalability : Maintain 1000 concurrent users at peak time.

5.3 Data Integrity : Ensure data integrity and accuracy across all modules.

6. Design Constraints

Hardware : System should be compatible with hotel hardware.

Software dependency: Utilise suitable DBMS,
use programming languages.

7 Non functional Requirements:

7.1 Security : All important data should be protected

7.2 Reliability : System should be available most of the time.

7.3 Scalability : Should handle more users at peak time.

7.4 Reusability : Should build in such a way easy to update.

7.5 Portability : Should work on different devices and operating system.

8. Preliminary Schedule and Budget

The project will take 6 months to complete including planning, development, testing and launch. The estimate cost is \$100,000 which covers development, tools and maintenance.

CS10

High level software requirements
Functional requirements
Non-functional requirements
Budget items and timing of delivery

Credit Card Processing

1. Introduction

documents

1.1 Purpose : The system gives us the outline of the requirements and specification of Credit Card Processing

1.2 Scope : The document gives the working and main objective of Credit Card Processing - includes cost & time.

1.3 Overview : It is designed for Easy payments / Transactions for the users. operation like user verification, balance checking, updated balance info.

2. Overall description :

The system designed to ease the transaction / payments of the users ; it includes features like checking sufficient balance availability, updated balance info, user / card verification.

3. Functional Requirements

3.1 Card validity :

Checking if the card exists or not.

3.2. Balance checking : System gets info related to sufficient balance availability from issued bank (Approval / denial)

3.3 Transaction update : Notification to the respective merchant & issued bank about updated balance.

3.4 Transaction Management :

To maintain details of all the transactions such as transaction id, user / customer and merchant personal information string using suitable DBMS.

4. Interface Requirements :

4.1 User-friendly Interface :

The system should be user-friendly.

4.2 Integration Interface : Integration with other bank payment gateways .

5. Performance Requirements :

5.1 Scalability : System should handle 1000 users at peak time .

5.2 Response time : System should respond to user in 2 seconds .

~~5.3 Security~~

5.3 Data Accuracy : Should maintain data accuracy .

6. Non-functional Requirements

6.1 Security : The data should be secure enough

6.2 Usability : Should be simple for user .

6.3 Portability :

6.3 Performance : transaction should be in 2-3 sec

7 Design Requirements

Hardware : System should be compatible with merchant's hardware.

Software : suitable DBMS, programming language

8 Preliminary Schedule and Budget:

The system to be developed needs 6 months, estimate budget \$ 100,000 for maintenance tools and development.

9 Library Management System:

1. Introduction

1.1 Purpose : Purpose of the document is to outline the specification and requirements of Library Management system.

1.2 Scope : The document explains the working and main objective of library Management system includes estimated cost & time.

1.3 Overview : The system has features for maintenance of books and numbers.

2 General description

It is a web maintained database of books and numbers.

3 Functional Requirements

3.1 Addition of books: Should allow librarians to add books.

3.2 Searching: Should allow members to search books.

3.2 Book rent info: Should inform members about their fine and return date alerts.

3.3 Issue/Return Books: Should allow members to issue and return books.

4 Interface Requirements:

4.1 User-friendly books: System should be user-friendly.

5 Design Requirements:

5.1 Software dependencies: Suitable DBMS to store info about numbers and respective books.

5.2 Hardware: Should be compatible with hardware.
~~interactable in it~~

6 Performance Requirements:

5.1 Response time: Should respond in 2-3 seconds after user action.

5.2 Scalability: Should allow 1000 users to use at same time.

6. Non-functional Requirements:

6.1 ~~Reliability~~ ~~Reusable~~: Should be easy enough to update.

6.2 Portability: Should allow user to use in diff dev.

6.3 Scalability: Should manage 1000 users at peak time.

7. Design Requirements:

7.1 Hardware: Should have suitable hardware.

7.2 Software: Suitable DBMS

8. Preliminary Schedule and Budget:

The system needs 3 months for planning, development, testing and launch.

The estimated budget is \$50,000 for maintenance, development, tools.

CS
CamScanner

21/08/25

Page No.
Date

Stock Maintenance System

1. Introduction

1.1 Purpose : To define the requirements and specification of the Stock Market Management.

1.2 Scope : It explains the work and main objective of Stock Market Management. It includes estimated time and budget.

1.3 Overview : Software solution for Stock Management system includes features like providing real-time stock prices, handle deals between buyers and sellers.

2. General Description : It is a Stock Maintenance System that helps sellers and buyers connect clearing houses.

3. Functional Requirements-

3.1 Stock price Management : User should provide real-time stock prices.

3.2 Buyers & sellers Management : Information about buyers and sellers.

3.3 Buy / sell : System should allow user to buy and sell.

2.4 Data Management : System should let know the user the shares he owns.

3.5 Transfer : The system should allow money transfer with confirmation message

4. Interface Requirements :

4.1 User-friendly Interface : It should be user friendly

4.2 Integration Interface : Should integrate payment gateways.

5. Performance Requirements :

5.1 Response time : The system should take 1-2 seconds to respond for user actions.

5.2 Data : To maintain data accuracy

5.3 Scalability : Should handle 1000 users at peak time.

6. Non-function Requirements :

6.1 Performance : Should have less response time.

6.2 Security : System should be secure enough for transaction.

6.3 Reusability : System should be easy to update.

7. Design Requirements.

7.1 Software : suitable DBMS, Programming language

7.2 Hardware : compatible hardware.

8. Preliminary and Budget :

~~22/8~~ The system required 8 months of ultimate time to plan, develop, test and launch and \$ 500,000 for development, maintenance and tools.

Project Passport Automation System

1. Introduction

1.1 Purpose : the purpose of the document to outline the requirements and specification of Passport Automation system.

1.2 Scope : the scope of the document explains the working and main objective of the Passport automation system including the estimated time and the budget.

1.3 Overview : soft solution for the passport issuing, renewing, managing making this operations faster and secure.

2 General description : The Passport Management System makes the operation like issuing, renewing faster and more secure.

3 Functional Requirements:

3.1 Verification : The system should verify verification of all ID proofs (required)

3.2 Issuing : Should allow user to issue passport.

3.3 Renewal : Should allow user to renew passport.

3.4 Travel history : Should allow user to get the history about countries travelled.

4. Interface Requirement:

4.1 User-friendly : The system should be user-friendly.

5. Performance Requirement:

5.1 Scalability : The system should handle 1000 users peak simultaneously.

5.2 Response time : Response time should not be more than 2 seconds after user action.

6. Non-functional Requirement:

6.1 Performance : The response time should be small as possible.

6.2 **Reliability**: The data stored should be secure enough.

6.3 **Scalability**: The system should be able to handle 1000 users at peak time.

7. Design Requirements:

7.1 **Software**: Suitable Database Management System (DBMS), Use programming language

7.2 **Hardware**: Required hardware to run the system

8. Preliminary Schedule & Budget:

The system requires 8 months to plan, develop, test, and launch.

The initial budget is \$100,000 for the development tools and maintenance.

CS
9/28