

SRS

I Hotel Management System

1) Introduction

1.1) Purpose → document comprises the requirements of a hotel management system used for automation of hotel operations like room bookings, check-in and check-out

1.2) Scope → Hostel management system will automate manual labor for customer service and staff management it will inc efficiency and accuracy in room booking and Payment

1.3) overview → Hostel management System hotel operation is a user can reserve room online By checking their availability

2) general description : - The System aims to simplify hotel operations for users and hotel staff. customers can use the platform to book rooms , while hotel managements can handle check-ins

3) functional requirements

→ user registration and login

→ Room occupancy catalog

→ Room reservation

→ invoice generation

→ Room service

4) interface requirements

- (i) user interface → a responsive web interface that allows users to search rooms, make reservations, and book.
- (ii) Application Programming interfaces (API's) → communicates between the web interface and the servers to check room availability.
- (iii) Database interfaces → system will interact with a Backend database to store and retrieve guest records, reservations, billing data.

5) performance requirements → System must handle multiple concurrent bookings, process payments in real-time.

6) Design constraints → The system must comply with data protection laws, such as GDPR.

7) Non-functional attributes

Security → Data Encryption

Reliability → System should have minimal downtime.

Scalability → Must accommodate

8) Preliminary Schedule

Initial development is estimated to take 6 months with a budget \$50,000 and the allocated is split as

1) requirement analysis (\$15,000)

2) design and implementation (\$10,000)

3) verification & validation (\$10,000)

4) testing (\$15,000)

and evaluation

II credit card processing

1) Introduction

1.1) Purpose :- documents outlines the requirements for a credit card processing system (CCPS)

1.2) Scope :- System will handle transactions such as authorizations, billing, fraud detection

1.3) overview → CCPS will provide business with the capability to process credit card payments securely and efficiently

2) General description's → CCPS will be used to by business to accept credit cards payment securely and in-store.

3) Functional requirement

→ user authentication

→ credit card

→ transaction processing

→ refund processing

→ fraud detection

4) Interface requirement → System will for devices and e-commerce websites the interface will communicate with banks and core network

5) Performance requirements → System must process thousands of transaction per second with minimal latency. response times should be within milliseconds for trans approval

6) Design constraints → Must comply with payment card industry Data security standards (PCI-DSS) integrate with various card networks and Banking is required.

7) Non-functional attributes

Security → tokenization's,

Reliability → POS, mobile and web

Scalability → transactions

schedule.

8) Preliminary Schedule → to take 9 months with a budget of \$160,000 considering integration with Banks and PCI compliance

splitup

developing appn
SBD

and from the total budget the split is

80%
20%

1) requirement analysis → \$20,000

2) design & implementation → \$30,000

3) verification and validation → \$20,000

4) testing and Evaluation → \$30,000

generate the SRS

Library Management System

1) Introduction

1.1 Purpose → document comprises the requirements of library management system used for automation and library management system

- 1.2 Scope → This system will handle the books inflow-outflow, author and customer service and pending due
- 1.3 overview → library management system helps in ordering and publishing book for the author

2) General description

→ The system allows the user with interactive UI to see the list of available books stored in the database, and from this user can rent or lend the book and the author can publish the book

3) Functional requirements

✓ User/staff / admin

2) Books storing database

3) Filter books, classifying them based on genre

4) authorization

5) staff management system

interface Requirements

- (i) user interface → a responsive web interface that allows the user to go through the menu and check for the available books and rent them or lend them
- (ii) Application Programming Interface (API'S) → communication between the web interface and servers to check
- (iii) payment gateway → it helps to make the payment for the book which the user wants to rent
- (iv) database interface → it helps in storing the books the user from the catalog

Performance requirements

- 1) Security → should provide security and maintainability
- 2) availability → all users have access to the available books
- 3) Scalability → it can take as many users demands etc.
- 4) Speed → transaction speed per second with minimal latency

Design constraints

→ should comply with the payment gate and should have access to the API'S and obtain multiple server authorization

2) Non-functional requirements

Security → Should have a secure interface and maintain their privacy

availability → website should be available for all user and it should show all available book present in the library or catalog.

scalability → It the scale at which the number of user will increase the website

reliability

3) Preliminary Schedule → It take 1 year with a budget of \$10000 considering with integration with Books and databases

1) Requirement analysis → It takes \$1000 and 1 month

2) Design and implementation → It takes \$2000 and 2 months time

3) verification and validation → It takes \$4000 and 5 months time

4) testing and evaluation → It takes \$3000 and 2 months time

Stock maintenance system

PAGE NO.:

DATE:

1) Introduction

1.1) Purpose → The document outlines the requirements for the stock maintenance system.

1.2) Scope → The system allows users to access to manage their stock digitally and along online trading by data analysis.

1.3) Overview → The users are provided with overall stock analysis allowing user to trade stock online.

2) General description → The system shows list of global firm stock available along with the analysis. It will be user-friendly and beneficial and bring of all.

3) Functional requirements

→ will allow for adding, updating, and deleting stock items, tracking inventories, generating stock reports.

4) Interface requirements

→ user-friendly interface, allowing employees to interact with stock data through forms.

5) Performance requirements

→ Perform quicker, processing stock trades in real time and efficiently large volumes.

6) Design constraints

→ system will be compatible with current hardware used by the company and work within the companies existing software framework.

7) Non-functional attributes

→ Secure

→ Reliable

→ Scalable

and it should accommodate business growth

8) Preliminary Schedule and Budget

Development will take 11/3-4 months

with a budget of around \$ 20000

1) Requirement Phase

Budget → \$3000

time → 3 weeks

2) Design Phase

Budget → \$5000

time → 4 weeks

3) Testing Phase

Budget → \$6,000

time → 5 weeks

4) Maintenance Phase

Budget → \$6,000

time → ongoing

PassPort automation SRS

Introduction

- 1.1) Purpose → document details the requirements for automating the PassPort application
- 1.2) Scope → System aims to streamline the PassPort authentication process, reducing manual efforts and improving efficiency
- 1.3) Overview → PassPort authentication system will simplify the process for applicants and officials, reducing paperwork and automating various stages of PassPort issuance.

2) General description

- System will allow users to apply for a passport online, track their application status and streamline document verification.

3) Functional Requirements

- System will manage applicant information, document uploads and automate application tracking.

4) Interface Requirements

- System will provide an interface for both applicants and officials allowing easy submission and management of applications.

5) Performance Requirements

- System must handle multiple choices and errors without lag and pauses.

Design criteria

- 1) System must comply with government regulations
using secure protocols to handle sensitive application data

2) Non-functional requirements

- Secure
- Scalable
- Easily to use
- Data security

3) Preliminary Schedule and Budget

Time: 5-6 months

Budget → \$50000

(I) Requirement Phase

Time → 1 month

Budget → \$10000

(II) Design Phase

Time → 6 weeks

Budget → \$20000

(III) Development Phase

Time → 6 weeks

Budget → \$20000

(IV) Maintenance Phase

Time → 4 weeks

Budget → \$10000