Software Requirements Specification

1) Hotel Management system

1) Introduction :-

purpose of this Document :- To provide a comprensive understanding of the requirements and functionalities of the hotel management

scope of this Document :- Describes the intended users, features, and benefits of the HMS, along with development cost and time estimates

overview :- give a brief summary of the HMS, outlining its primary functions such as room booking, check in/out, and billing

2) General Description

objective :- To automate and streamline hotel operations, improving efficiency and guest experiance

user characteristics :- Front desk staff, housekeeping, guests

Room booking :- Allows guests to book rooms online or through the front desk

Billing :- Generates invoices, processes payments, and manage accounds.

3) Functional Requirements

1) Room booking :- Users can search for available rooms based on criteria such as date, room type, and occupancy

2) front desk staff can check-in guests, assign rooms, and issue room keys . → Check-in/out

3) Billing :- generates invoices for room charges, additional service and taxes

* integrate with payment gateways for secure transactions.

4) Interface Requirements

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ii) payment integration - integration with payment gateways (eg paypal, stripe) for secure online payments

iii) communication - Email notifications for booking confirmations, reminders and feedback requests.

E) Performance Requirements -

i) Response time: system should respond promptly to user requests with minimal latency

ii) Availability:- System should be available 24/7 with scheduled maintenance windows communicated in advance

#) Design constraints

B Hardware/software limitations

-* compatibility with existing hardware and software infrastructure
-*support multiple platforms

** Regulatory compliance :- compliance with data protection regulations and industry standards.

4) Non-functional requirements

1) Encryption of sensitive Data:- Role based access control to restrict unauthorized access

a) Reliability:- Intuitive user interfaces. System should support or robust and resilient, with failover mechanisms to prevent downtime

a) Usability: - i Intuitive user interfaces with clear navigation and helpful tooltips

8) Preliminary Schedule and Budget

Date 27/3/24

i) Schedule :- estimated timeline for development, testing and development phases

a) Budget :- cost estimate for development resources, software licenses, and infrastructure

CREDIT CARD PROCESSING SYSTEM

Introduction:-

1) **purpose of this Document:-** This Document outlines the requirements for the development of a credit-card processing system, detailing its functionalities, interfaces, performance expectations, design constraints, and other relevant aspects.

2) **scope of this Document:-** The document defines the scope of the credit card processing system project, including its objectives, deliverables, development costs, and time requirements. It also highlights the value the system will provide to customers.

3) **Overview:-** The credit-card processing system is designed to facilitate secure and efficient processing of credit card transactions. It aims to provide users with a reliable and user-friendly platform for managing transactions, generating reports, and ensuring compliance with relevant standard and regulations

2) General Description

The credit card processing system will cater to merchants and customers, providing a secure and reliable platform for processing credit card transactions. The system will support various transaction types, including purchases, refunds, and voids. It will also offer reporting and analytics features to help merchant to track their transactions and make informed business decision

3) Functional Requirements

1) **User Authentication:-** User must be able to authenticate themselves before accessing the system

2) **Transaction processing:-** The system should support various transaction types, including purchases, refunds and voids

3) **Reporting:-** The system should generate reports on transaction history, sales and customer insights

5) Integration Requirements

1. **User Interface** :- Intuitive web-based interfaces for applicants, agents and administrators to interact with the system

2. **Data Streams** :- Streams for real-time data exchange b/w system components, ensuring timely updates and synchronization

3. **File interfaces** :- Mechanisms for importing and exporting data in standard formats, enabling interoperability with other systems

6) Performance Requirements

1. **Response time** :- The system should respond promptly to user interactions, with an average response time of less than 2 sec

2. **Throughput** :- The system should handle a minimum of 1000 concurrent users during peak hours without significant degradation in performance

6) Design constraints

1. **Regulatory compliance** :- The system must comply with legal and regulatory requirements related to passport issuance and data protection

2. **Hardware Limitation** :- The system should be designed to operate within the constraints of available hardware resources such as processing power & storage capacity

7) Non-functionality Attributes

1. **Security** :- Implementation of robust security measures to protect sensitive user data & prevent unauthorised access

2. **Portability** :- The system should be platform-independent

3. **Reliability** :- The system should be reliable.

8) preliminary schedule and budget

* **Timeline** :- The project is estimated to span six months, with development, testing and deployment access

* **Budget** :- The estimated budget for the project is $50,000 covering expenses such as software development, infrastructure etc

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Stock Management System

1. Introduction

Purpose :- The purpose of this document is to define the requirements and specifications for the development of a stock management system. It serves as a guide for stakeholders and the development team to ensure clarity and alignment throughout the development process.

Scope :- This document outlines the overall working and main objectives of the stock management system. It describes the value it will provide to customers, including improved efficiency in stock management processes.

Overview :- The stock management system is a software application designed to streamline and automate stock management processes within an organization. It provides functionalities for efficient inventory management, order processing and reporting.

2) General description :-
—The stock management system aims to
- Enable efficient stock management and tracking
- provide real-time visibility into stock levels
- facilitate order management and processing
- generate comprehensive reports for decision-making

3) Functional Requirements
- Adding, updating, and deleting stock items
- Tracking stock levels and movements
- creating and managing purchase orders
- generating reports on stock status and transactions.

4) Interface Requirements

1) User Interface :- The UI allows users to interact with the system, providing interfaces for data input, manipulation. It includes forms, menus, buttons and other elements for user interaction.

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3: preliminary schedule and Budget

• project plan :- An outline of the project. Phases, Milestones, and deliverables including requirements gathering, design, development, testing and deployment

3: Time Duration :- The overall time required for each phase of the project, considering dependencies, resource availability, and project constraints

2: cost estimate : - An estimation of the overall cost of development, including expenses related to personnel, equipment, software licenses.

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