- j) totel Management System (HMS) Software Requirements.

 specification (SRS):

 Specification (SRS):

 Gual: Develope a Software Tuterface for HMS.

 Introduction:
- , purpose of this Document! To provide a comprehesive understanding of the orequirements and functionalities of the total Management Dystem.
- , scope of this Document! Describes the intended users, beatures, and benefits of the HMS, along with development cost and time estimated.
- · Overview: Grives a boriet summary of the HMS, out living its primary functions such as soon booking, check-inlout, and billing.

2) Greveral <u>Description</u>:

- · Good : Make hotel operations smoother, purproving both efficiency and quest satisfaction.
- · Users: Front desk statt, housekeeping, and guests.
- · Features! (i) Room booking: Gruests can book online or
 - (ii) Check in lout: Makes cheebing in and out easier for.
 - (iii) Inventory Managements: Keeps track of available rooms, house keeping status, and amenties.
- (iv) Billing: Handles invoices, payments and accounts.
- · Significance: Boosts guests happiness, revenue and.
- · Users: Hotel staff and guests, each with diffractent access levels.

3) Functional Requirements:

- . Room Booking: Users search for available moons selen
- · Check in lout: Front deck stoff check-inquests, assign rooms, and issue keys; quests check-out and settle bill
- · Inventory Managements dystem updates room availabile tracks amenity inventory.
- · Billing: Grennrates invoices_ integrates with payment gateways.

4) Interface Requirements 6-

- · User Interface: Easy to use interfaces for staff and suests, accessible via web or mobile.
- · Payment Integration: Links with secure payment gateways like Gray, Payfal etc.
- · Communication: Email notifications for boding confirma.
 tion, reminders, and teedback nequests.

5) <u>Performance</u> Requirements:

- · Response Time! Quick System response to user actions
- nance notitications.
- · Scalability: Handles high demand during busy time effectively.

6) Design Constraints 1-

- · Hardware [Software Limitation:
- Compatibility with existing hardware and software in frastructure.

- , Support for multiple platforms (Windows, Maros, ios, Android).
- , Regulatory Compliance:
 - compliance with data proteution regulations and produstry : standarde.

2) Non-Functional Attributes:

- . Encryption: Protects rensitive data.
- . Access Control: Limits unathorized access.
- . Reliability: Reliable with failover mechanisms.
- · Usability : Intuitive interfaces.
- . Scalability: Scales with user base growth.
- 8) Preliminary schedule and Budget:-
 - · schedule: Timeline-for development, testing,
 deployment, phases.
 - · Budget: Cost estimates for development. licenses.

HMS can range brown \$20,000 to \$100000 more.
advanced systems with extensive teatures and.
Customization option can cost upwords \$1,00,000 to.
Streval hundred thousand dollars.

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I) Software Requirements Specification (SPS) for Credit Card Processing Lysters

Goal: The goal is to streamline credit card processing System's to facilitate smobth transaction white ensuring security and compliance with industry standards

) Introduction:

· Purpose: - Outlines specifications and orequirements for Credit cord Processing Lystem (CCPS) dwelop. - ment.

per ment . lorty of many.

- Serves as a comprehensive quide for Stakeholder, duelopers, and users. a trail : stutied
- · Scope: - Detines objectives and value of CCPS.
 - Describes severe and efficient handling of credit card transactions. . A TEMAL ENTLE THE TOTAL
- Outlines development cost and time.

- - CCPS facilitates sovere and efficient processing of credit of credit transactions.
 - provides centralized platform for merchants to accepts credit payments.
 - Ensure compliances with industry standards and negulations.

- 2) General Description:
 - CCPS faillitates:
 - Real-time authorization of credit card transactions.

The state of the s

- settlement of transactions and sieceipt generation.
- management of aestorner accounts and payment.
- Integration with payment gateways and merchant. services.

3) Functional Requirements.:

- Authorization! Verity credit cord information and.
 authorize transactions.
- Settlement: Capture-tounde and generate receipts.
- austoner Management . Register) Update accounts and manager payment methode
- Integration: Integrate with payment genteways, Support various payment methods.

4) Interface Requirements:

- User Interface: Intuitive for mer chants, remre login
- Bystem Interface: Integration via APIs, semme data transmissions.

5) Performance Requirements:

- Response Time: Quick authorization and payment.

 processing.
- Reliability: Minimal downtime, fault-tolerance.

- Design Constraints!
- Security: PCI DSS compliance, encryption.
- compliance: GDPR, ECPA adherence, regular audit
- 7) Non- Functional Attributes:
 - Scalability: Scale to-handle increased transactions.
 - Portability: compatible across platforms. choud deployment. Fire House A Regulares with
- Préliminary Schidule and Budget:
 - Development estimated aut quotiles \$ Logooo. bud
 - Phases: Requirements, design, implumentation, testing, deployment.

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relate there were not been any of distinct and

II) Library Management Lystern's software Reguirement Spécifications. (SRS)

Goal: The Library Management Dystern aime to make. running the Library easier, help people find books. quickly, and ensure everyone has a good time using sether library

and of the factorization for first gration with the) Introduction:

- purpose: Guides development team, stake holders, and project participants by outliving objectives and reperbus our system subiniting, our wednesday
- Scope: Describer Library Management Lysternis main goals, benefits to customers and stakeholders. and estimated development parameter.
- Overview: Obsers a bouiet summary of the Library Management dystem, including its purpose and bey teatures

Greveral Description: A Library Management System is a saftware. that helps manage library operations. It include tunctions like cataloging books, managing mens, handling transactions, and generating reports.

the year (Language). poitest mother winger · Enwin Ffrancis.

Functional Requirements:

- 1. Cataloging books
- 2. Managing users
- 3. Handling circulation transactions Land Marketti I water
- 4. Governating suports.

Inferface Requirements:

User interfaces for interacting with the system and system interfaces for integration with external data bases and hardware. and having it with abition : 300 per 1

Performance Requirements: Quick response time, Scalability and system reliability, even under heavy load . " pour dil maines : again

and goods themselves of stidents and stoop on Design Constraints: Adherence to platform compatibilit hardware limitations, and external standards or from a willia : on how regulations. in the second process of the state of

Non- Functional Attributes: Attributes like security. neliability, portability and scalability

Prediminary Schedule and Budget:-

Initial plan for development, including timeline, phases (requirements gathering, design. Puplementation, testing, deployment), costs, and timetrames.

D) Software Requirements Specification (SRS) for. passport Automation System:

Indroduction:

Purpose: To défine specifications and requirements for the development of a Passport Automation Lystem.

Scope: 70 describe the overall objectives and Scope of the Passport Automation System.

Overview: Designed to streamline and automale passport application, processing and management · Platterm compatibility procedeures. Tudegration with external systems bor date

Greneral Description: The passport Automation dystern allows users to register, submit passport application online, schedule appointments, process payments, and neceive their passports.

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Functional Requirements:

- · User Registration
- · Application Submission portioning. Colectice and
- Application Processing
- Payment Processing.

- · Appointment scheduling
- · Passport Issuance.

Interface Requirements:

- · Intuitive usor interface
- · Integration with payment galeways and external systems.

Performance Requirements:

- · Quick response time
- · Scalability for handling a large volume of applications

Design Constraints:

- · Platform compatibility
- · Integration with external systems too data 'exchange.

Non- Functional Attributes:

- . Security with robust authentication and. encryption.
- . Reliability with backup ande recovery mechanisms
- . Usability with an intuitive interface & clear error us

Preliminary. Seehedule and Budget:

· Development estimated at 6 months, \$60,000 budget.

Stock Maintenance System:

Introduction:

- · Purpose: Define specifications and nequirements for stock Maintenance System development.
- · Soope: Describe System's objectives, including etbicient stock inventory management and improved tracking of stock levels.
- · Overview: Introduce Stock Maintenance, System for managing stock entry, tracking, movement, and suporting.

Design (restrements:

Greneral Description: The Stock Maintenance Eystern manages stock inventory, including stock entry, tracking, movement, and reporting.

Functional Requirements:

- · Stock Entry: Add, edit & delete stock Ptems with
- · Stock Tracking: Monitor stock lude and ser aletts for low stock.

- · Stock Movement:
- · Reporting: Gunerale neports on stock-nelated

Interface Requirements:

- · User Interface: Intuitive interface bor easy nouigation.
- · System Interface: Integration with barcode scanners & external Systems.

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Performance Requirements:

- · Response Time: Quick nesponse time tor stock queries
- · Scalability: Ability to handle growing stock items and transactions.

Design Constraints:

- · Platform Compatibility: Compitable with various operating System.
- · Hardware L'unitations: Optimized for desktop and mobile devices.

Non- Functional Attributes:

· Security: Implementation of access controls and encryption.

- . Reliability: Reliable backup and recovery
- performance: Efficient performance bor concurrent users and large dalasets.

Preliminary Schedule and Budget:

. Development estimated at 4 months, \$ 40,000

budget.

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