Islotel Management Bystom.
1. Introduction
" Purpose: To specify grequirements for "Notel Sphore"
Hotel Monagement System.
1.2 Pocument Conventions.
-> following the IEEE SRS Standard.
1.3. Audience
> Intended for project team (managers, developers) and
and brotestabon of (Hotel Istan) verblandstore
project's scope and requirements.
1.4. Product Scope
→ Web-based system for managing resorvations, front
desk operations, soom service, and billing.
1.5. References
→ IEEE AD
→ client requirements and project
2 Overall Description
21. Indust Perapertive.
> A standalone system that integrates could third-party
APIS from Online Travel Agencies (OTAs) and
payment gateways.
2.2. Product bunctions
→ Manages greenvations, check-in check-out, groom status, billing and greporting.
2.3. User Clauses and characteristics
-> Front Desk Staff : Manages daily operations; needs a
> Housekeeping Stall: Undated from status: and
→ Housekeeping Staff: Updates twom status; needs a mobile betendly interface.

SRS Downers.

- 5 other Monfunctional Requirements
- 5.1. Performance lequirements
 - -> Support up to 100 concurrent users
- Booking transactions should complete within 2 seconds
- 5.2. Safety Requirements
- > Legulor Data backups
- -> Fail-safe mechanisms in case of some crach
- 5.3. Security Requirements
- Pole-based access control
- s Enampted storage of sensitive data
- 5.4 Software Quality Attributes
 - -> Usability: Easy to-use interface
- 6 Other requirements
 - Compliance with local hotel lows and towatton policies
 - Multi-language support for international customers.

I Credit Cond Processing System

1. Introduction.

1.1. Purpose

The (redit card Processing System (CCPS) To designed to securely authorize, authorize, and settle credit card transactions for merchants and customers. It ensures accuracy, from prevention, and compliance with financial pregulations

1.2 Document Conventions

- · CCPS = Credit Card Processing System
- · POS = Point of Sale
- · OTP = One-Time Password

1.3 Intended audience and heading buggestions

- · Merchants: For accepting cools payments
- · Bank layment Gateways: For validating and settling transactions
- · Developers | Testers: For building and validating the system.
- · Admins: For monitoring and managing system operation.

The CCPS provides a Lecure and reliable platform to handle the CCPS provides a Lecure and reliable platform to handle card transactions in real time. It supports authorization, card transaction, broad detection, billing, and settlement between authoritication, broad detection, billing, and settlement between banks and merchants.

1.5. Deforences

- · PCI DSS Dewity Standards
- · Iso 8583 Firancial Messaging Standard.

2. Overall Description 2.1 Product Perpetive . The CC.PS works as middleware between morehants, cultomer banks and payment gaterays. It integrates with Pos devices, Arms and online payment portals 2.2. Product Functions . Transaction authorization and validation. · Customer authentication (PINIOTP) . Settlement between food bank and merchant. · leforting and fraud detection. 2.3 User Classes and Characteristics · Customer: Initiates payment with cord details · Northant: Accepts payments via POS lonline. · Admin Bank Staff: Monitors, verifies, and manages transactions 2.4 Operating Environment · become servers with 24/7 availability · POS terminals, Arms and web applications · Encrypted communication channels. 2.5 Design and implementation constraints. negulation. · Must comply with PCI. DSS and local 2.6 User Documentation transcription popular co · Merchant user guide · Admin manuals · API documentation for integration. grad Mical Co. 27 Assumptions and Dependencies willy was good? . · la Himmus internet connectivity · Support from books and payment networks 3 External Interface Requirements 3.1 User interface · los interface for murchants · Customer cand Enget + PIN OTP screen.

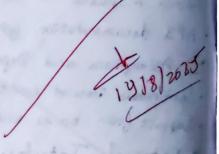
- . Aguer garpoong for we visassing
- 3.2. Hardware Interfaces
 - · Cand readers, Pos machines, ATM,
- 3.3 Software Interfaces
 - · bank APIs
 - · Payment getting integration
 - · Frank detection modules
- 3.h. Communications Interfaces
 - · Secure encrypted Internet channels
 - · Standard Iso 8588 message format.

4 System Features

- Authorisation validates card details and account balance.
- -> Authentication PIN or OTA
- Legoring.
- 5 Other Nonfunctional Requirements
- 5.1 Performance Requirements
- · Mandle upto 5000 transactions per buard
- · Process each transaction in less them 3 seconds
- 5.2 Safety requirements
- · Backup and necessary mechanisms
- · hollback for momplete transactions
- 5.3 Security requirements
- · Strong encyption (AES, RSA)
- · fok-based access control.
- · PCI DSS compliance.

6 other lequirements

- · Support for Visa, Manter Card, Rulay, and other networks
- · Musti-currency support for global usage.



Library Management System & Introduction 1.1 Purpose s To define the Requirements for a Library Management System that automates book tracking, were management, and lending expositions. 1.2 Document Conventions - All doses follow the DD-MM-4744 format. 1.3. Intended studience and Reading Suggestions -> This document is intended for developers, testors

(ibrasciano and stakeholders.

1.4 Product Scope

The system will reanage book intentory, member records, is the or return processes, and overdue tracking. It will support both staff and number interactions.

1.5 References

- · IEEE SRS Standard 830-1998
- · Library Science Best Practices
- · Postgresal Documentation
- 2. Overall Description

21. Product Penjective

. This is a standalone web-based application neplacing mount library operation.

2.2 Product Functions

- · Add update | delete books and members
- · Issue and teturn books
- · Search catalog
- · Generate reports.
- 2.3 User Clauses and Characteristics.
 - · Librarians: Admin Pauvileges

- Menubers: Limited access to search and grequest books.

 Admins: Full system control.

 Que. Operating Environment

 Cooks browser

 Cooks browser

 Cooks Linux-based with Postgre Sal
- 2.5 Design and Implementation Constraints
 - · Must use open-source technologies.
 - · Responsive UI for mobile and dashtop.
 - · Data encryption for user kredentials
- 2.6 User Documentation
- · User manual (PDF)
 · Online help section
- · Admin training quide
- 2.7 Assumptions and Dependencies
- · Users have basic digital literacy
- · Internet connectivity is available
- 3. External Interface bequirements
- 3.1 User Intéfaces
- · Login on registration page
- · Dashboard for librarian and members
- · Search and book request intorface
- 3.2 Mardware Interfaces
 - · A good server.
- 3.3. Software interfaces
 - Postgresar database
 - · RESTBUL APIS for integration
 - · Authoris cotron via OAuth 2.0

System features a book Management - categorise books by gente, author. - add on delete book necessal (edit too) > Mornber management - register and marage member profiles as Lending Operations - return books - Borrowing history - Calculate finas for overdue ikms -> Seasch and Reports - Search books by title, buthor BT ISBN - Grenarate monthly usage trapports. 5 Other Nonfunctional Requirements 5.1. Performance · System should support 100 concurrent users · Search results must load within 2 seconds 5.2 Safety Requirements · Regular data Backups . Graceful over handing · Hole - based access control · lasswords stored using hashing 6. Other Requirements Integration with SMS gateway · Support for multilingual UI.
· Audit logs for admin actions

V Stock Maintenance System 1. Introduction 1.1 Purpose To define the requirements for a Stock Maintenance Eystern that enables efficient tracking updating and efficient tracking updating and reporting of inventory across multiple categories and locations 1.2 Poument Conventions · Currency: INF · Date DD-MM-4744 format. 1.3 Audience . This document is intended for developers, inventory managers business stakeholders, and QA teams . The syptom will marage stock levels, record transactions, generate dents for low inventory and support reporting for decisionmaking. It will streamline operations for everehouses, gretail outlets and procurement teams. 1.5 References · Soventary management · 150/IEC 25010 Software Quality Model. 2. Overall Description This is a centralized web-based application replacing manual or 2.1 Product Perspective spreadsheet - based stock tradity and tracking 2.2 Coduct Functions . Add update dalote stock Hems Monitor stock levels and movement. Generate alerts and treports. · Support multi-location inventory

23 User classes and characteristics · Admin: bull access to all modules . Inventory Manager: Manage stock and view negots . Stoff: Emited access to update stock entires 2.4 Operating environment . Web browsers (Chrome, edge) · Somer: Linux with mysal . Client. Desktop or mobile devices 25 Design and implementation Constraints · must support role-based access · Use open-source stack (Node: je ots) . Perfonsive design for mobile compatibility 2-6 Assumptions and Dependencies · Users home base inventory renowledge · Stable internet connection · MySQL and Abde is metalled on sower 3. External Interface Requirements. 31 User interfaces broadward bus meal. · Stock entry and update forms . Alerts and preparting module. 3.2 Hardware Takenfaces . Printa for Stock Juports 3.3 Software interfaces · Mysax database · Archentication via JUT 4 Lysten features - Stock Management - addicate I delate stock îtemi - Categorize items of

- Alerts and Notification -> reberge so 5 Nonfunction Requirements 5.1 Reformance Lequirements · Support 200 concurrent abers . Stock updates reflected within 5 seconds 5.2 Safety Requirements · Role-based access control · Energeted credentials and secure sessions 5:3 Safety requirements · Daily backups etroneous entries · Rollback mechanisms for 6 Other Requirements
- · Support multi language UI
- · Audit logs for stock changes
- · Integration with ERP systems

of Passport Automation System

1. Introduction 1.1 Purpose

To define the neguinements for a law port Automation system that streamlines the application resilication and insurance of passports through a secure and user-briendly digital Bafforce

1.2 Document Conventions

. (wowy INR.

13 dudience

. This document is intended for government officials developers, testers, and system integrators.

1.4 Scape

. The system will automate possport - related services including application submission, document verification. appointment schooling and status tracking. It will reduce

manual processing and improve transportancy.

1.5 References

- · Government of india Pauport Guidelines
- . Aadhar API documentation.
- 2. Overall Deseription

2.1 Product Perspective

- · A well-based application with national identity databases and plice verification systems.
- 25 lugar Parctions
- . Orline topsfort application
- · Document appear and verification
- . Appointment booking
- Status reacting and notifications

23 Usur Classes and Characteristics · Applicants: Citizens applying for possports · Officials: Verify documents and approve applications · Admins: Manage system setting and user males 2.4 Operating Environment · Web branders · Destatos or mobile dences 2.5 Design and Implementation Constraints · Must comely with government sewrity Handords · Andhar and PAN integration negwind · Multilizated support. 2.6 User Documentation · Orline help center. 2.7 Assumptions and Dependencies · Applicants have rolid identity documents · Available internet access 3. Extrand Interface Requirements 3.1 Usor interfaces · Applicantion from interface · Document upload portal . He pointment calendar · broodness autob. 3.2 Nordowo interfaces. · Printers for application receipts 3.3 Software interfaces . Aadhar and PAN ARIZ · Police verification system Ragment gateway

legster features stock Management - add edit delete stoch items . Inventory Tracking - needed of incoming and outgoing stock. enother and Notifications. Reporting 5 Other Non-functional > Performance requirement. · Kigh availability with minimal downtime. · Fast processing Greeign Constraints attoral security & data privary negolations 2/3/2025