19825 - Hotel Management System Queriew: This SRS document include all the functional and non-functional requirements Peroblem statement: The hospitality industry for the HMS. It is plainthused into sections that faces significant challenges in efficiently define the system's overall goals, detailed managing hotel operations which include functional and non-functional guquisumente and design Considerations Reseaucation, quest services, nom allocation, billing and housekeeping. Thus, there is a need for an integrated, automated thatel Managemen Contestal description our more yeardout - Product Perspective money money System that streamlines the operations. The HMS is an integrated solution designed Streamline hotel operation, including Introduction: reservatione quest management, room - Purpose: The main objective is to perovide assignments and housekeeping. It will be a a bare for the foundation of the project. It web-based platform with a mobile app perovides views of how system is supposed to - Perpoduct Features work and what is to be expected by the end users. Client's expectation and requiremente are analyzed to produce specific unambiguou Room Management I majoretri do N. functional and non-functional requirement Housekeeping Management so they can be used by development team User Management Interest Josep. with clease underestanding to build a - User classes and Characteristics System as pessend viser neede. Administrator represent mencutive oft - Scope: The purject is intended for the Gueste staff that sometime 20%. reservations for room that can be made online. The system will be certificatived, usex-Housteeping and Maintenance, at friendly and robust solution for managing hotel operations officiently. It coulous these Hunctional Requirements constant major functionality. Reservation Management · Reservation management Description - The system shall allow quests to book seams, seens availability and cancel · Front desk and quest services · Koom and housekeeping management or modify bookings Billing and payment processing Use case - Guest can search for available · User management

Requisementer 312 sill answer . Supposet for single and group reservations Response Time: System should load pages within 3 seconds Fracke greet perfeler prieferences and history Concuerent Mese Signer should support 500 Limultaneous uses on of points Fransaction Proceeding Data Storage -Room Management Dieplaye nom availability and statice and Bystem availability Design Constraint + Billing and Paymente of 1911 Compilance: Must adhere to regulations Generates invoide, processes payments and irrlegeatee with payment gateways.

- Used Management

Admin can manage used roles and access. I bleen interface. Should be intuitive & calability Mut supposit large chains Integration: Neode to integrate with thirdbu party dystemi. mit sons asitantes Interface requiremente southerness. Non-Functional Attendate Plees Interface Immonth trought Performance: Pages should load weithin 3 · Web interface: Responeive deign geconde; support son were : soul · Mobile App: iOs/Anderoid Security: Enceipt serietive data with · Guest Poutal memorande selle Chability : Intuitive interface with minima -> Hardusare interfaces &calability. Must handle growing data · POS Systems: Integration with payment · Keycard bystems - Availability · Room Devices of the proposition Schedule In Schedule and Budget - doftware interface of moiting · Payment Contemay: I mitmuss so Phase 1: Requiremente gathering & system design - 2 months · Lenc with platforme like Airbord. Phase 2: Development & integration - 4 month Phase 8: Festing and defloyment - 2 months Phase 4: Fraining and go-live - I month Performance Requisionente

Budget Burd mely a conf sarry sto De velopment: \$150,000 Queruide in estimate someone The system coneist of the of · Mesurant interface: To initiate transaction Teeting: \$20,000 more amonthemin Payment gate way . To section of moute Fraining and support: \$10,000 · Settlement Module To transfer funde between banker of mondifier > Coredit Card Management System . Tratations must support were proper the General Description of the transfer . Peroplem Statement: The system addresses · Usere: Merchante, Customera, Bante, Admine inefficiancies, security riske and scalability · Encironment: Web & Mobile Apps, secure APIs issues in managing andit card trameach integeration with banking networks 1 and accounts. It will streamline card · Constrainte: Must comply with PCI DSS, GDPR issiance, real-time proceeding, fraud · Assumptions: Meere have valid credit carde detection and depositing Junctional Requisementalist de la conse Introduction of and : manusalus 1 Used Authentication: Merchant and admine - Purpose: The purpose of this document is must log in securely to define software requirements for a 2. Credit cased Authorization: Verify credit card (redit and Processing System (CCPS). The system will handle authorization, authorities available balance, expiration date 3. Fransaction Processing: Approve or decline tion, to aneaction routing, settlement and Fransactione, supposet refunde 4. Fraud detection: Delect unusual patterns 5. Pettlement: Francher approved funde Scope: The ccps will: 6. API Integration: REST APIS for think-party Supposet coudit cavid paymente · Privile real-time authorization and of Settlement of dismission of: 1 would ods Interjace Requiremente Include fraud detection and prevention there Interface (UI): Web dashboard mechanisms to model of a since · API Interface : Reletice APIs with JSON response · External Interface: Integration with card · Offer API interface for third parely integration. networks.

Performance Lequisiemente > Development Team \$ 1000,000 · Procles 10,000+ transactions per second. > Cloud Inferentacture \$20,000 Authorization surponer time & 2 seconde > dicensing of Compilance \$ 15,000 > Testing & 10 Amis and 1 \$ 10,000 7 Maintenance \$25,000 . Must follow PCI DSS compilance Report Module: dummadges book · Database must support ACID properties cinculate manuface activily. Support scales scalability on cloud > Library Management Lydem . Engineering : 82 ch & Maria Appe seed to 181. Peroblem statement was it would. Non-Functional Attributes Marrie ducational institutions and public sola. Decilocity End-to-end energyption. liberatives still manage their recoverces Reliability. High availability with manually, leading to inefficiancy, corners failouer in record keeping, difficulty in tracking · Scalability Supposet millions of wiere. issued/ greturned books A digital library Usability of Simple Ul for admine is required to automate cataloging, book issue faction, accuracy and accessibility Preliminary Schedule of 1 12 10 6 1 User destruction tradion : dogin hunistrati Introductionos. bono sudanem not-Phase Duration Deliverable Purpose : Puripose le todefine finational and non-functional suguescements for a Requirement of Ditrolof him SR.S - library hanagement system this help administratode, siboariane and studente analysis of the demost of the Aster of Architecture 4. Scarch & Prouser Beauth by the ruther -Scope: 1921 designs > Development 8 Core Module 4 Unit, Integration and at The low solution & trumpometer that ? > Testing · Maintain a digital catalog of all books of > Deployment Production release > Maintenance: Ongoing Updates semmedicerousices of witulows & Died St. s Total Estimated Time: ~ 19 months. Supposet members registration and authentication · Expormal galadain Entendation with car · Enable book search, issue profitain Budget · Automatically calculate & manage fines Be accessible via weband mobile interface.

Interface Requiremente · User Interface: Web dashboard and mobile-friendly design. history · API Interface : REST ARS for integration with student postals. Database , Stores books, membress · External Interfaces: Basicade scanners · Reposité Module: Summarizes book Studint database 1. of translation of circulat & member activity. mobile trumpomory movedile Performance Requirements General description · Supposet 1,000 + concuerent were · Clean: dipraviana Studente/ Membera · Book search results displayed in < 1 seconds Environment heb-based interface · Tesue/secturen fransactions Constrainte: Must work with limited 99% uptime requirement " 000 internet bandwidth of womour Assimptions leave have valid library Design constrainte memberships i homewhow howers · Database must supposet Acid frameactions is acquiring to automate antologing be · Must comply with privacy regulations Aunctional Requiremente of , secure authentication. 1. Uses Authentication: Login / registration should rum on standard platforme for members and staff d. Fata Book catalog Management Add edit seemore book enleine Seclivity: Role-based access enemption of 3 Book I some / Return Trange books to Used cordentials und brings member, support book grenewal. · Reliability: Backup and recovery support 4. Search & Brouse: Search by title, author, · Scalability: Can expand to include e-books Subject ISBN · Cleability: Ul both foodibrasiane é studente 5. Fine Management: Auto: calculate fines Phase Duration 6 Reposite & Analytics! Frank most bornue 1 books & active agood in the orders. 1. Motifications mens and elang. Requirement Analysis & weeks Bystem Designi Intoit and of week · Be acceptable at o week and mobile by lenge Development by a court

Teeling June 3 June okula · Generate aleeds for low stock levels Deployment 2 2 deceke · Provide note-based access Maintenance in Digoing - Duerisius: Componente, include: Total Estimated Time 1 als weeks . · Stock Database i Stores ilems details, quantities il interest opinal Peceliminary Budget i Dominity ?. · Transaction Module: Records incoming Development Team 1860,000 outgoing stock. Loud Infrastructures \$ 8,000 Alext System Triggere notifications for L'Isole dicensing on 1 \$:8,000. General Description - Teeting from Aremon menting & 7,000 Staff and Staff Total Estimated Budget 111 \$ 80,000 · Environment: Web or desktop application accuracy decure acces consistent data Inimatures orbies Stock Mintainence Lystemana. Assumptions: Items au uniquely identifiable Peroblem Statement 31110 01111000 Hunctional Requirements 1. Add/Edit/Delete stock items Organisation face difficulties in tracking Stock level, avoiding overetocking 2. Kecoud stock burchase & consumption understocking, and managing inventory 3. Duto-update current stock level 4. Generate daily/usekly/monthly. stock efficiently A Stock Maintenance aystem is required to automate stock tracking Diobotela monitore availability and generate alort 5. Det minimum stock threeholde f triggere alerle. - Purpose: To digitally manage stock Heme Interface Requiremente energy real time updates on available · UI . Web dashboard with graphe & table lity incoming and outgoing stock, and · API: Integration with sale / purchase system. External automated notifications for restocking Performance Requiremente Maintain a digital inventory of items.

Prack incoming purchases and outgoing stock.

· Handle 100,000 + producti > Passporet dutomation System · Support 1,000 concuerent viere.
· Transact update within 2 seconds elitions deplicante Proposed delicities Peroblem Statement minusk later Parkport proceeding is traditionally slav Deign Constrainte manual and prione to ecocors, rowling · Must comply with data integrity rules men pletays and inefficiency, An automated · Should app. Supposet multi-local aranchous System is required to digitize applicat" · Should own on standard web/ cloud Lie Lebriescop, the enficate approval expressort infeatuctures and sale sondies reseance, Drammich home winter Mon- Functional Attaibutes Income? Interoduction was work love town · Security : Role-based acrees, encupted mil til fuerpose: To define grequisamente for a data storage Paypout dutomation System that Reliability duto backup & recovery Atteamlines passport applicate werificat oscalability: Expandable formerli-branch Status tracking & issuance. I we inew - Scope 19 - rotto tilesell treminol. 8 Maintainability: Modulare design · allow applicant applicants to apply online In and uploade documents Poceliminacy Schedule · Supposet documenti electificat & approval evilogioficialista orista intolo Requieremente Queceke Decian de de de de de la cocake · Provide Statu tracking for applicante Enable appointment booking for verifica Development 6 uscake Testing 3 useeks
Doployment duecks · Ensure data declivity & compilance with government sules, Total! ~ 15 weeks alsools T. Westlace Foquium minimum Form The System included in months !! Preliminous Budget Applicant Module - Registration, applications Development Team \$55,000 Cloud Infrastruicture \$3,000. Admin/Official Module - Document verificat lesting & DA S,000 Mainfainence \$10,000 Database - store applicant and passport 1000 A S. J. DOO Notification Module - SMS/Email updates

General Description: Design Constrainte Admine Applicante, Passport Officials · Must comply with e-governance, GDPB, Admine ' Lecure servere. and local regulations · brong authenticati · Use Ats-856 enceypt for data. Constrainte: Must comply with govern ment data policie Mon- Functional Altoubules desumptions: Applicante provide valid · Security: Two-factor authentication encerepted storage Reliability : Failouser Supposet, daily Functional Requiremente:
+ User Registration/Login - Securce applicant · Scalability: Can expand to millions of 2. Online Application form submission · Maintainability: Easy utdates. with documents 3 Document Verification - Officials resist Paceliminary Schedule 10, addelle proof, etc. Requiremente 3 useeks 4 Appointment Booking - For physical 3 weeks weification/interview. Development 10 useck. 5 Atalus Tracking - Applicante can veine applicat perogeres Jesting ! 5 weeks Deblagment 3 weeks 6 Parposet Jenance - Generate & update Total ~ 24 uceki paerpout record. Pereliminary Budget Interface Requieremente Component Cost (USD) · UI : Responeive web portal stables Development Jeam \$ 150,000 APT: Integrat " with national 10 database Secure infuastructure \$40,000 External Interfaces reserved in Testing & Security Auditi \$20,000 Maintenance \$30,000 Pealoumance Requiremente contra Total \$2,40,000 tandle 10,000 + & applications per day · Applicanti Application response time < 3 Motification Module - SMS / Expression of