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The the south

- -> Hotel Management System
  -> Gredit (over brocessing
  -> library Management System
  -> Stock Movintainers System
  -> lassport Automation System
  - 2 teps: V Revelop broblem Statement
    - 2) Revelop a IEEE Standard GRS document with several requirements
  - 5 k 5:- DIntroduction luxpose
    - Overnien
    - 2) General Rescription
    - 3) Fenctional Requirement
    - 4) Interface Requirement
    - 5) lenfarmance Requirement
    - 6) besign Constraint
    - 7) Non-Functional Attributes
    - 8) brelininary Echedule and Rudget

1) Hold Nonogement Eystern: I broblem statement: In the hosepitality industry, efficient management of hotel operations is wind for enhancing untoner natisfaction, optimizing resource utilization, and umpraving arenal service delinery. Many hotels still ref rely on manual or fartially automated systems for booking management, undoner thech - in Xabech - out, Silling, house keeping woordination, and inventry control To develop ston to effective, strong good rustomer experience 5R5: and to naintoin Hotel operations with excellent services. DIntroduction: The purpose of this document is to define the requirements for the Hotel Monogenent Eysten. It outlines the functionalities, contraints and Enteractions. 11) 3 cape - It automates and streamlines the core operations 1) Overview - broduit lerfectives, user closses and characteristics, Operating environment.

2) General Reprintion: At is a standardone web-based system that interfaces with a backend database and a optional third-party forgment gateways with small and 5 MS

notification services. It has those main modules:

Staff Rashboard

I Admin lovel

3) Functional Requirements:
3) Room Management: Add Sepolate / Relite or som details, availabily platus.

2) Booking Management: Greats, modify and same bookings.

Deck-in / Check-out: Record great arrival / separture, upolet room

I killing and payment: To vary out the billing process

and to initialise the payment to be done.

2) Reporting: - & To generate the overenue, the total occupied and queste coming

2) Interface Requirement:  Non-functional Requirement:	-> Resign Constraints: - Use open source Satabase which supports responsive design for nobib denies.
c) benformance: The pystem can support up to many users without degrading  o) Security: The system can enforce login and role-based arens control  o) Reliability: The system has uptime of 99.9% northly and	Pota is stored in encrypted format in which the system follows 6,000 Recomplished for suctioner data  -> breliminary Exhedule and knolget:- 35 chedule chase Quarter (wake)  2 Requirement Analysis
daily automated database backups are required.  Distribution ability: The system follows modular design for large updates and Roumentation must be permissed for APIs-  Interface requirements:	3 Eystem Resign 3  Development - Backenol 5  Development - Frontend 4  Antigration & Testing 3
Descriptions: At has login page, dashboard, Room booking, horaire nieurs and management for all users. Hardware toterfaces: At has barcade scanner for check-in and 905 system for on seile billing	Deployment & training 2
·) Roftwore Interfaces: - My 5Q L database, layment Gateway API.  Email 15 M 5 Notification service.	last 24m Estinated Cost (USD)  Last Manager \$5000  Business Analyst \$2000  Bushend Remeloker \$12,000

Frontend Reveloper \$ 10,000 \* Gredit land brocessing: UI/UX Resignor \$ 3,000 brobben Statement: To read spectine, secure, real-time wredit word processing. It is the Mission in the production of the Total Rudget: \$32,000 -> Runkoze: To define the detailed regitivers requirements and rysten specifications for the west and Monagement Eysten, quidry development and ensuring stakeholder alignment -7 Ecope: - Corers wedt ward account wrecition transaction processing, billing, payments, fraud detection, reporting and integration will banking systems.

-> Overnien: - The eyeten monages wedit rard lifetyck including issuand, transaction nontoring, polymont processing Handles matoner account management transaction authorization, Dilleys eyels, payment processey, frand Remark Towns & detertion alorts and compliance reporting begin sprager Desports multiple user roles: Admin, metonor servis, and wetomers. Robert inte

= Functional Requirements: -> breliminary Echedub ) bredit eard application processing and approval workflam ) Real time procuring and transaction 3 Billing Statement generation and deliney ) Frand detection and about system. ) layrout processing and account balance updates. - Interface Requirements: ) Wed based UI accessible on desktape and mobile divine 2) secure communication mia HTTPS ) Hardware support for earl readors if reeded -> performant orequirements: ) Transactions should our smoothly, response time should be few secounds. I should handle multiple transactions -> Non- functional Requirements .) Security, Evalabely, heliability, maintainability, Compliance uxability

Chase Quration Cost (USD)

Analysis 4 weeks 6000

Testing 12 weeks 52000

Amplementation 8 weeks 10000

Maintainance 15000

Estimated time: 60-70 weeks, cost: \$80000

and Budget:

> Eloch Maintenance Eysten: 2) Admin: Full awars to all features, including managing were and system configurations. I broblem statement: To develop a system that efficiently manages, I Warehouse Staff: limited areas to stock mountanous features monitors and update stack levels in real-time to prevent ·) Managers: Access to stock levels ortratacking and stockouts in retail or wavehouse environment -> Functional Requirements: -> Introduction: ) User Authentication and Roles: - login, logant I lumpose; This system will manage the inventory, track stock ·) Etack Item Management: - Add, update, delete. devels, handle stacks so and generate reports for the retail I this eyetur is used by retail business to naintain and ) Stack level tracking: - Track real time stock, updat stocks manag their investory. This kystem kupports both ·) law stack alerts: - Let minimum stocks, Notify user when marual and automated stock adjusments. Dearkup and Recovery: Manual and Automatic data backups. - General .) The document personed a list of eoftware requirements for the stock Maintename system. The I Audit logging: - log all shanges to stock actions document includes both functional and non-functional -> Non-functional Requirements:requirements. Derformance - lan handle up to 10,000 tens and 100 man -> General Rescription: It will be a standalow application without log. on may be integrated with an existing system to Dhelindulity: Insures 99 % uptimo provide a experience for maintaining stocks. ·) Security: late unoryption is like passwords ") Wealth - user - friendly Enterfore.

" Maintainability: Structure for easy upolates, cleare Reployment 1 weeks Bucket documents for developers and users. - brelinierary Budget -> Enterface Requirements:-Item Cost (USD) I wer Enterfair. - Cleans dashboard showing stock, alet Requirement Analysis 3000 and quick actions. Lyston Resign ·) Hardware Intenfas :- Supports barrede keanners 4000 levelapment 15000 D'Estevare Enterfais: - Entegration Aft's on accounting sections. Testing 5000 -7 Resign Constraints: Replayment 2000 .) The eyetem has a compatible with standard well browns Training e) It has a relational database for data storage. .) The system operates on Windows, linux on any cloud some, 2\$ 30 500 tolot budget ·) All data communication must be seuve HTTPS brotaid -> breliminary Echeslub: Chase Luration Requirement Analysis 2 weeks lesign 3 weeks Benelopment 6 weeks 3 welks Testing

D Functional Requirement: -> library Management :--) Allows librarian to add, modify, remove books and other mass modia from database. .) brobbon statement: 2 Each item shall have details like title, ISRM, gente and To maintour and manage library more efficiently and in location. - tooked but there products of a more ordered way, De Maintain a record of each members, update their information -> Introduction: and manage membership. 1) This sovers the automation of all major library I Maintain a record of each members borrowing history. operations, including book eatologing, member -> Interface Requirement: management and to specify the organizaments for i) User Intenface: ) A simple, clean initiative web interface for both a library mangement library management. it) averview: - horary management system is a roblinor application I Design shall be nesponen to work on both desktop designed to replace a manual (ar) outdated library. and mobile web becomes. il Integration Interface: -> General Recriptioni-) Integration with USB for bluetooth borcock seamer The library Management System will be used by liberarian for quick which in which - out. for administration tasks and by library members for 3 Optional integration with an email service to send overdue notices and reservation confirmation. browing and exampling the entalog. It will be web-based application, ensuring easy for all users without the heed for special software

-> Non- functional Attributes:-	and the state of t	-> Caseport Actomation Eystom:
Security, Reliability, Usability, Compactability	, maintainability,	2) brobbon statement: To automate the dispatch of perspects
Sialabety.	r juga salah s	to all applicants effectively and efficiently.
-> breliminary Echedul and Budget:	more a minim	-> Introduction: This is an interface between the applicant and the authority responsible for the issue of passport
Chase Ruration	Cost (USD)	i) lurpose: The samplet provers is done manually which is
Analysis 3 weeks	8000	inefficient and time rouseming so, it is to be automated.
Implementation 7 weeks	10,000	ii) Ecope: "The system reduces the time consumption and also
Testing deployment 10 weeks	52000 North March	reduces human corrors to improve efficiency.
Mointainance 12 weeks	15 000	-> General Rescription: The passport automation Secretar acts
Estimated time: 35 weeks, Easts: \$ 8	80,000.	interpole between the appliant and administrator. This
	in Joya hiji	system tries to make the interface as simple as possible.
પણએ જશ્લાદ વેલાવેટ્યા ( <u>)</u> ત	Salan Salan	-> Functional Requirements:
my Sold- gal	auto inter of	D system shall perovide information about different to be
the state of the s	) the there is the start	of passport quick.
ala da	you wast. square	I'lle system shall authenticat users to ensure only valid users.
		I this can also provide multiple payments methods
		and conformations.

3 System also allows different departments to verify documents.	-> breliminary	Echechile and Budge	ti
2 Also allow users to which the surveit status	Chase	Time (wake)	Cost (USD)
of this possport application.	Analysis	1 400	1000
-> Interface Requirements:	Architecture	3	2000
D Hardnare:	kuildiy and	7	30000
Processon: intel core i 3 on above RAM: 46B minimum	testing		
Storage: 500 GB 550/400.	Deployment	3	40000
9 Loftware:  3 05: windows [line ] MAC	Mointainance	12	70000
Valabose storage, like My 5QL at	Eo, the total	el estinated time i	is 30 weeks
) Some Encyption tools, role based authentication.	and 1,50,000		
-> Non functional Requirement:			
Descrity, Ukability, Reliability, Manngability, Scalabilty, Compactability.			
The same of the sa			