Hotel Management System

a. SRS Document

	Pope I
	Software Resurrement Live 1 (1991)
	Softwan Requirement Specification (SRS) for Hotel management system.
1)	Introduction
	1.1. Purpose of this downerd
	This 3RS defras the juntoonal and
	non functional requirements. It provides
	necessary details, stepwise working and.
	information needed to make efforment &
	sobust system.
	1.2 scope of this document
	System must be able to perform.
	- Overe booking & reservation
	-) Early check on aptron & west
	-) Payment & Gilling
	-> Restaurant order management
	-> I dentity proof validation
	Web application to enable users to use various services provided by the hotel.
	ver approves provided by the hotel.
	Vinneue
	2) Coneral description.
	2) Coneral description to register himself (Gerself)
	Charkout date, minus
	during login. I hnow more.
	and read their
	about the hours for amount I charges.
	through any payment galeway
	throng

3) Funtional aguinments Reservation management Allows war to never or court in -atron, confirmation email e payment murept. Avord multiple booking for same noon Room management Display all do's and don'ts before booking assign noms on armal and update status. staff management. Record auch on & beck out times, westly check of all staff by supervisor 4) Interface requirement Regional language option must be avastable, ve representation of each ram Data consistency is mantamed 5) Performance nquirement. 15 and minimum 8 Cel PAN to ensure Smooth functioning. 6) Perraya constraints OI must be interactive and uses friendly to morace engagement and user retainment Application cannot new on Lives systems

	() Date	
	Page 3 0	
7)	Non functional requirements.	
	System must use RSA 2048 hashing for	
	Lat data security & must not be dependent	
	on one architecture o system must be	
	able to process & Gandle 10000 voors simult	
	- aneauty of needed must scale up.	
8)	Patiminamy schoolule & Budget.	
1.	Project must be completed within 6	
	months & Gudget allocated 13 9.600 \$.75	
	any harges made neserve budget used,	
	Budget split	
-	30stware development \$3840	
	Hardware \$ 1920	
	toutes \$ 960	
	Project management. \$ 960	
	Pocumentation \$ 480	
	Maintenance \$ 960	
	Total \$9600	
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a. Advanced Class Diagram:

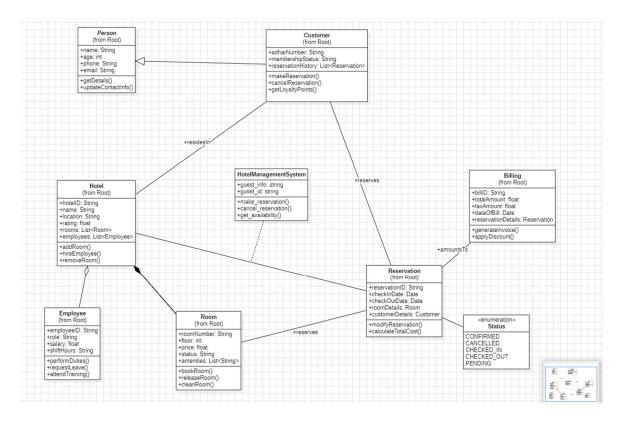
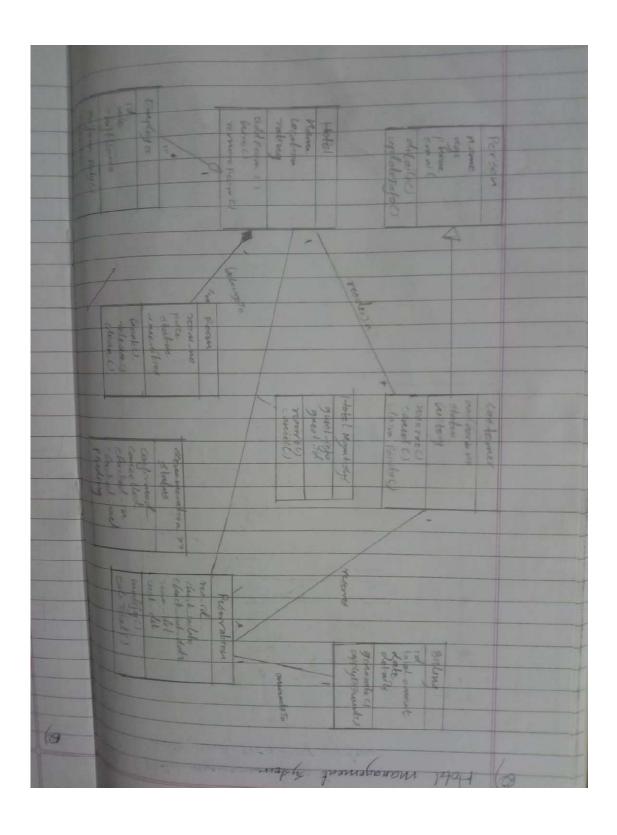


Fig 1.2: Advanced Class Diagram for hotel management system

- Person and Customer: The Person class serves as a base for Customer, which includes
 details like membership and reservation history. Customers can make and cancel
 reservations.
- **Hotel**: The central entity managing Rooms and Employees. It includes methods to add or remove rooms and hire staff.
- Room: Represents individual rooms in the hotel, with details like room number, price, status, and amenities. Rooms can be booked, released, or cleaned.
- **Employee**: Represents hotel staff, with details like role, salary, and methods to perform duties or request leave.
- Reservation and Billing: The Reservation class handles booking details like check-in/check-out dates, room, and customer information. The Billing class generates invoices and applies discounts for reservations.
- **Hotel Management System**: Manages reservations, cancellations, and room availability, acting as the core system.



b. Advanced State Diagram:

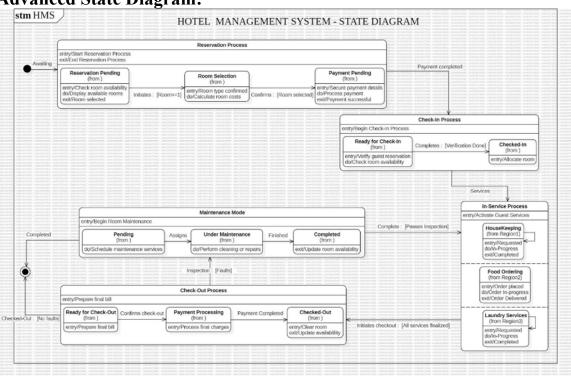


Fig 1.3

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c. Use Case Diagram

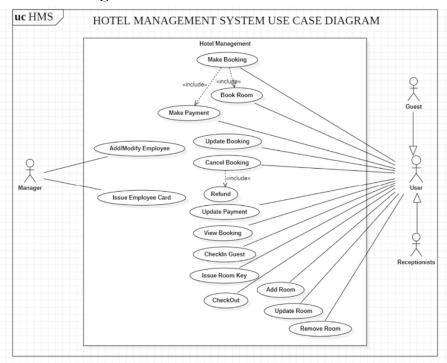
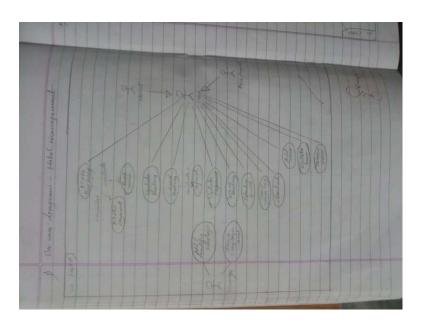


Fig 1.4



d. Sequence Diagram

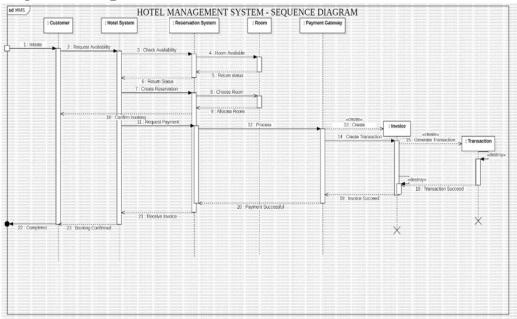
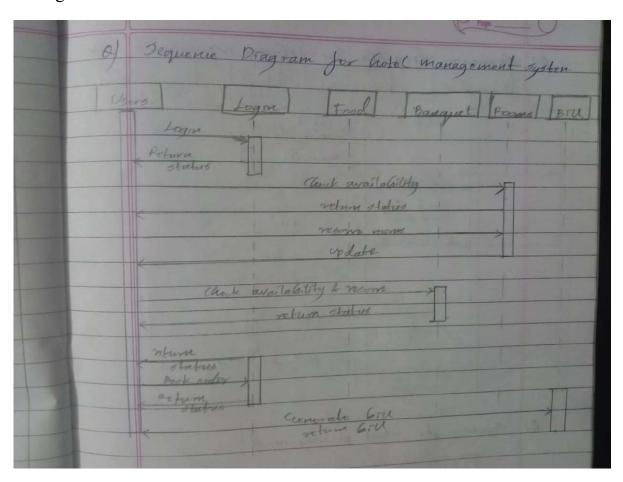


Fig 1.5



e. Activity Diagram:

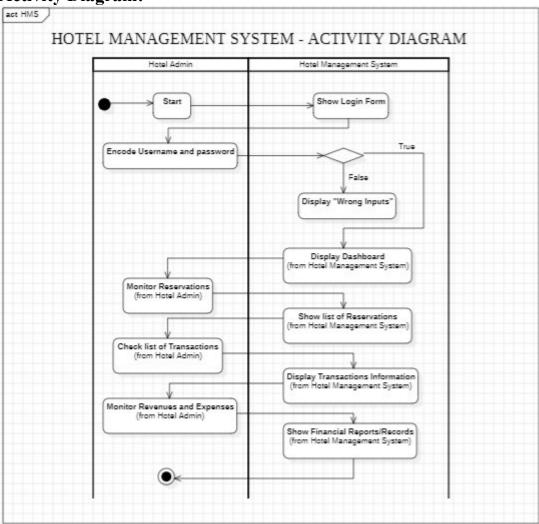


Fig 1.6

