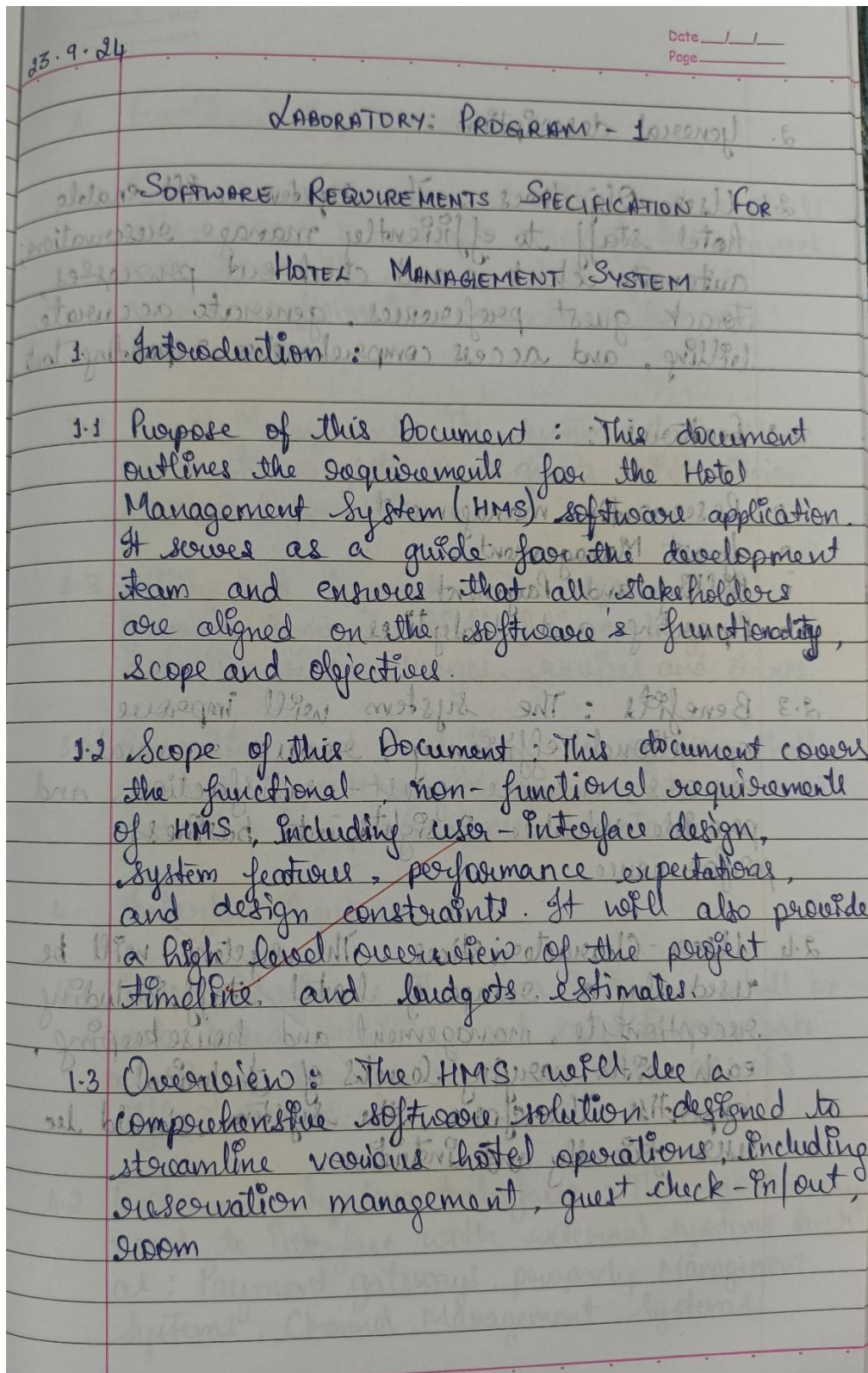


HOTEL MANAGEMENT SYSTEM

SOFTWARE REQUIREMENTS SPECIFICATION



2.	General description :
2.1	User Objectives : The system will enable hotel staff to efficiently manage reservations, automate check-in and check-out processes, track guest preferences, generate accurate billing, and access comprehensive reporting tools.
2.2	Features :
	<ul style="list-style-type: none"> Reservation management Guest Management Billing and Payment Reporting and Analytics
2.3	Benefits : The system will improve operational efficiency, reduce manual errors, enhance guest satisfaction, and provide valuable insights into business performance.
2.4	User Characteristics : The system will be used by a range of hotel staff, including receptionists, management and housekeeping, each with varying levels of technical expertise. Therefore, the system should be user-friendly and intuitive.

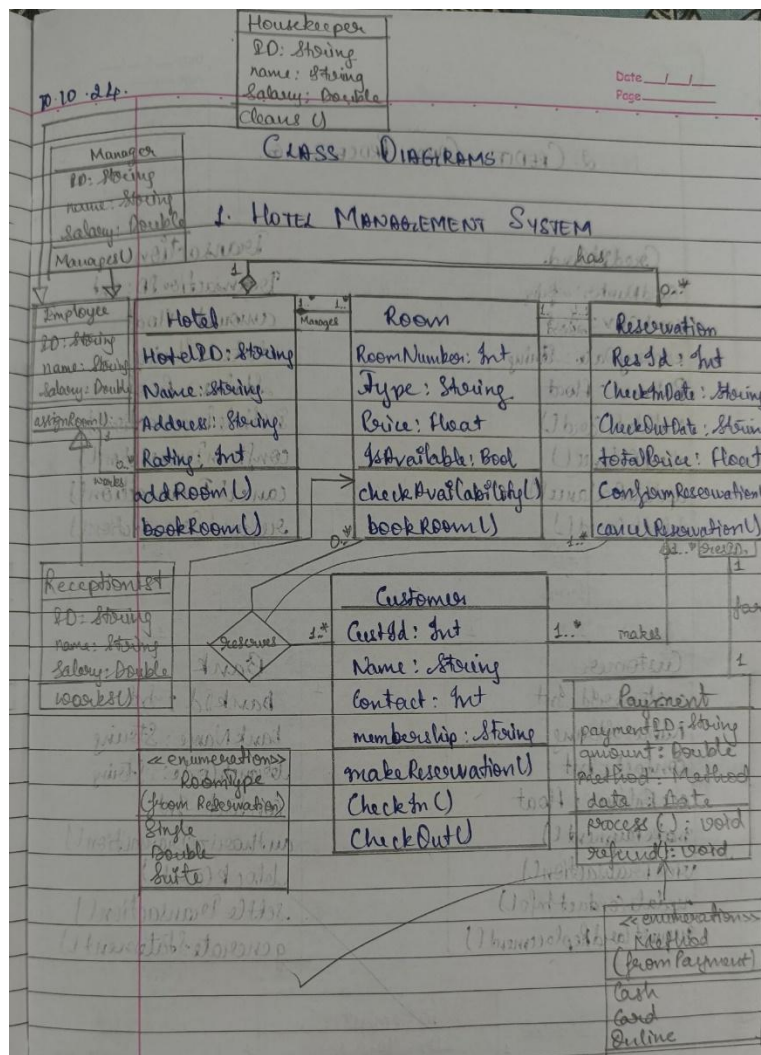
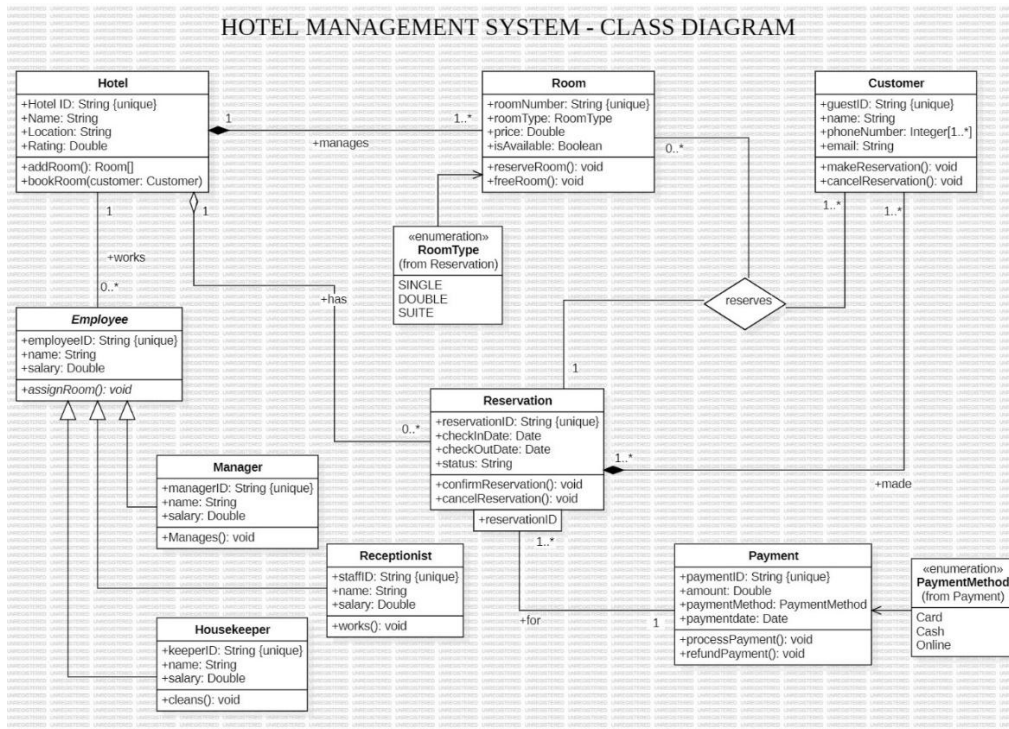
3.	Functional Requirements :
3.1	Reservation Management : The system shall allow users to create, modify and cancel reservations. The system shall generate unique confirmation numbers for each reservation.
3.2	Guest Management : The system shall allow users to register new guests with their personal information.
3.3	Billing and Payment : The system shall generate itemized bills for each guest, detailing room charges, services and taxes.
3.4	Reporting and Analytics : The system shall generate reports on occupancy rates, revenue, and other key performance indicators.
4.	Interface Requirements :
4.1	User-Interface : The user-interface shall be web-based, intuitive, and easy to navigate, ensuring a seamless user experience across different devices.
4.2	External System Interface : The system may need to interface with external systems such as : Payment gateways, property Management Systems, Channel Management Systems.

5.	Performance Requirements :
5.1	Response Time : Should respond to user requests within a reasonable time frame.
5.2	Capacity : Should handle a large number of concurrent reservations.
5.3	Availability : Should be highly available.
6.	Design Constraints :
6.1	Technology Stack : The dev team may be restricted to using specific tech or frameworks.
6.2	Hardware Limitations : Deployable on the existing hardware infrastructure.
6.3	Security Compliance : Must comply with relevant data security and privacy regulations.
7.	Non-Functional Attributes :
7.1	Security
7.2	Reliability
7.3	Usability
7.4	Maintainability

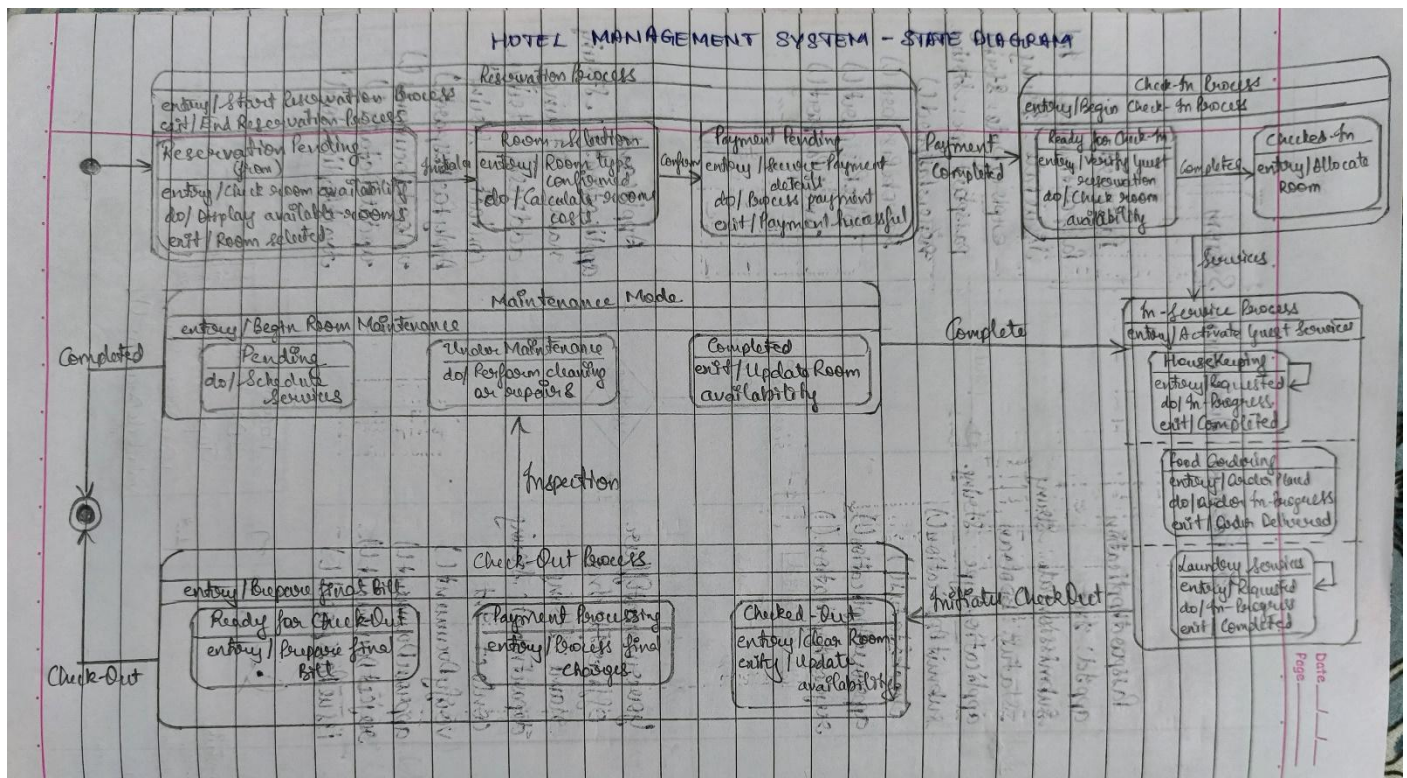
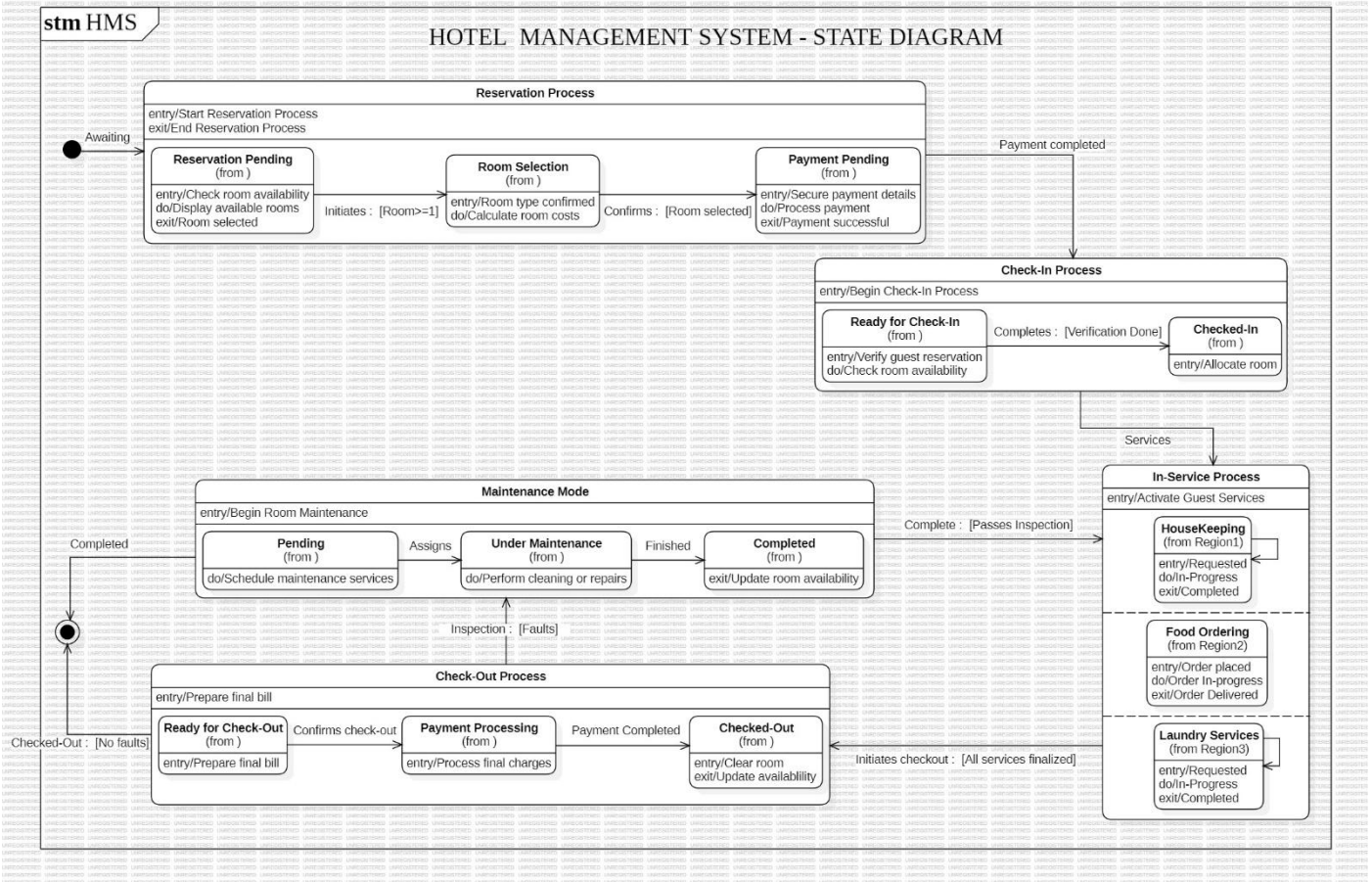
8.	Preliminary Schedule and Budget
8.1	Schedule : The project is estimated to take 6 months, broken into key phases :
8.1.1	Budget
	<ul style="list-style-type: none"> Requirements Gathering (2 weeks) Design Phase (1 month) Development Phase (3 months) Testing Phase (1 month) Deployment and Training (2 weeks) Post-deployment support (2 weeks)
8.2	Budget : The total estimated budget is \$120,000, allocated as follows :
	<ul style="list-style-type: none"> Requirements gathering : \$10,000 Design Phase : \$20,000 Development Phase : \$60,000 Testing Phase : \$15,000 Deployment and training : \$10,000 Post-deployment support : \$5,000

UML DIAGRAMS

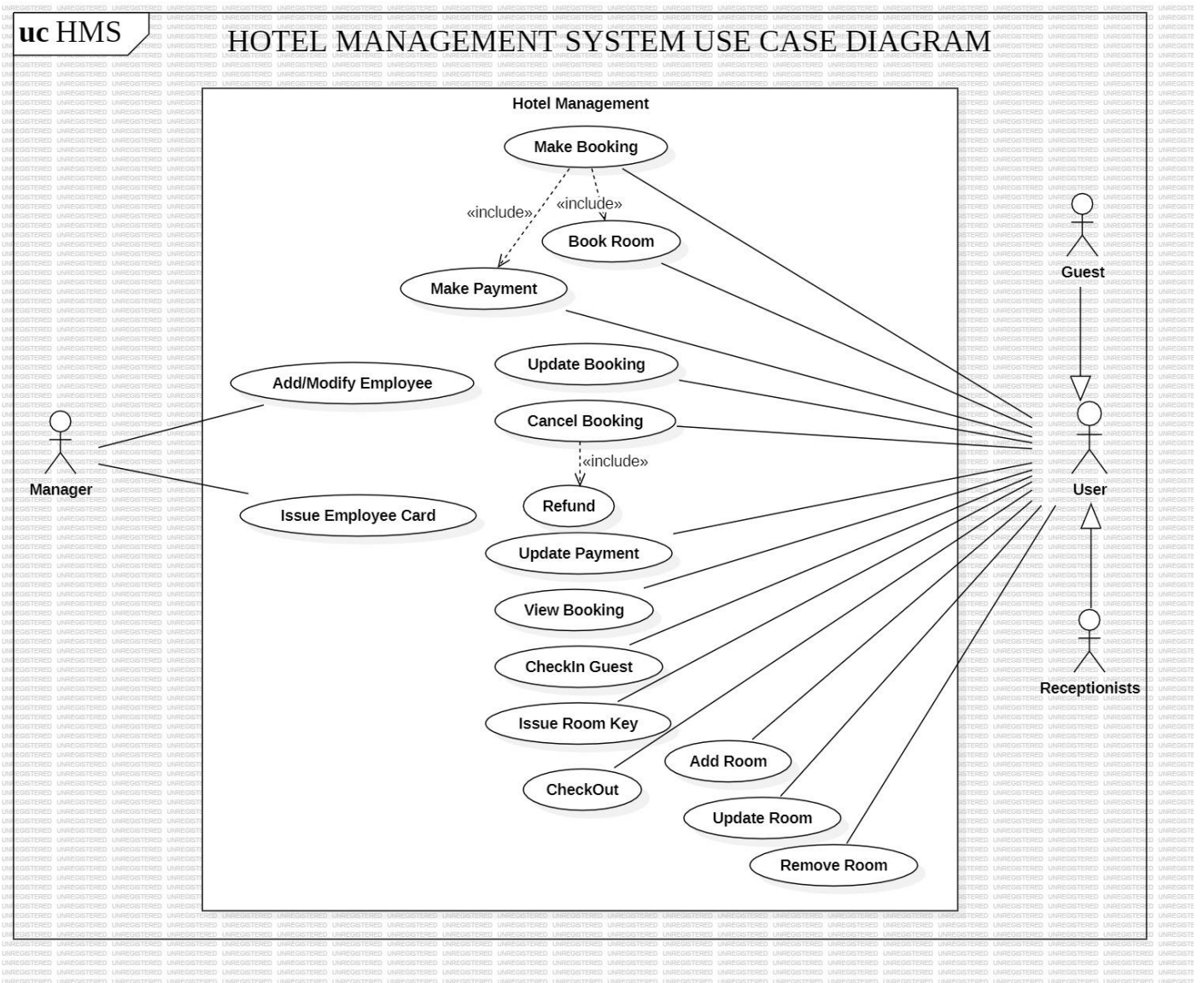
CLASS DIAGRAM



STATE DIAGRAM



USE CASE DIAGRAM

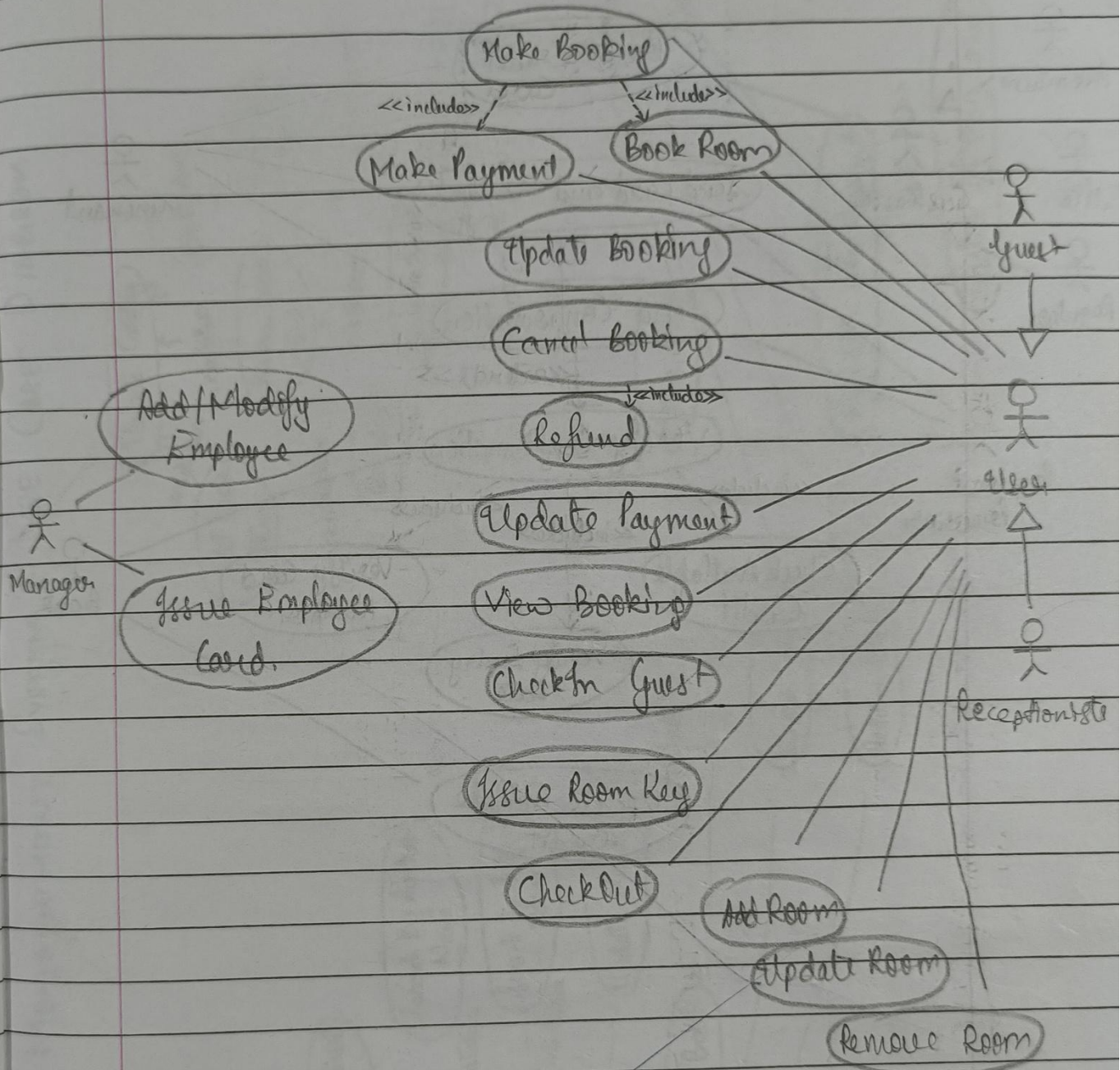


USE CASE DIAGRAM

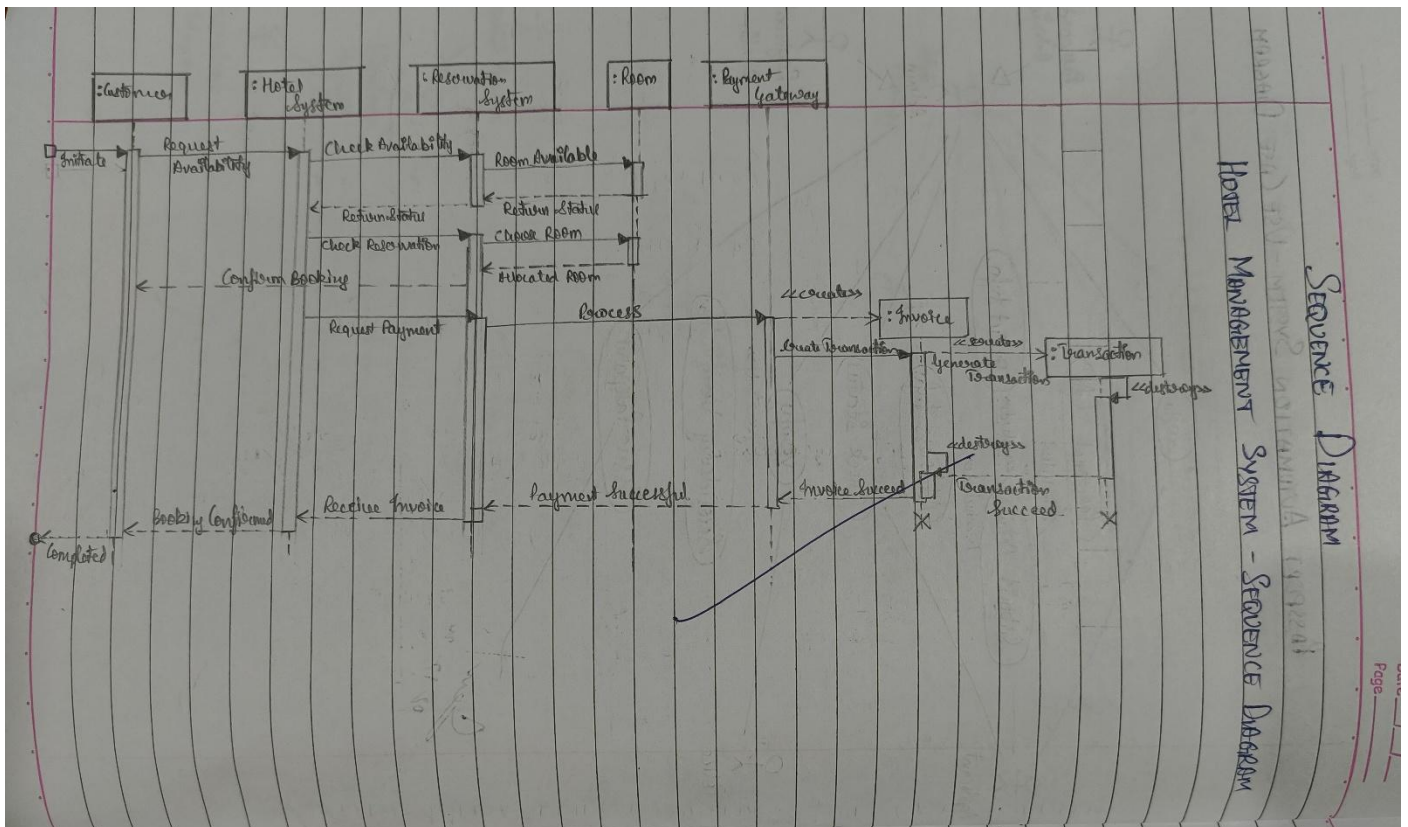
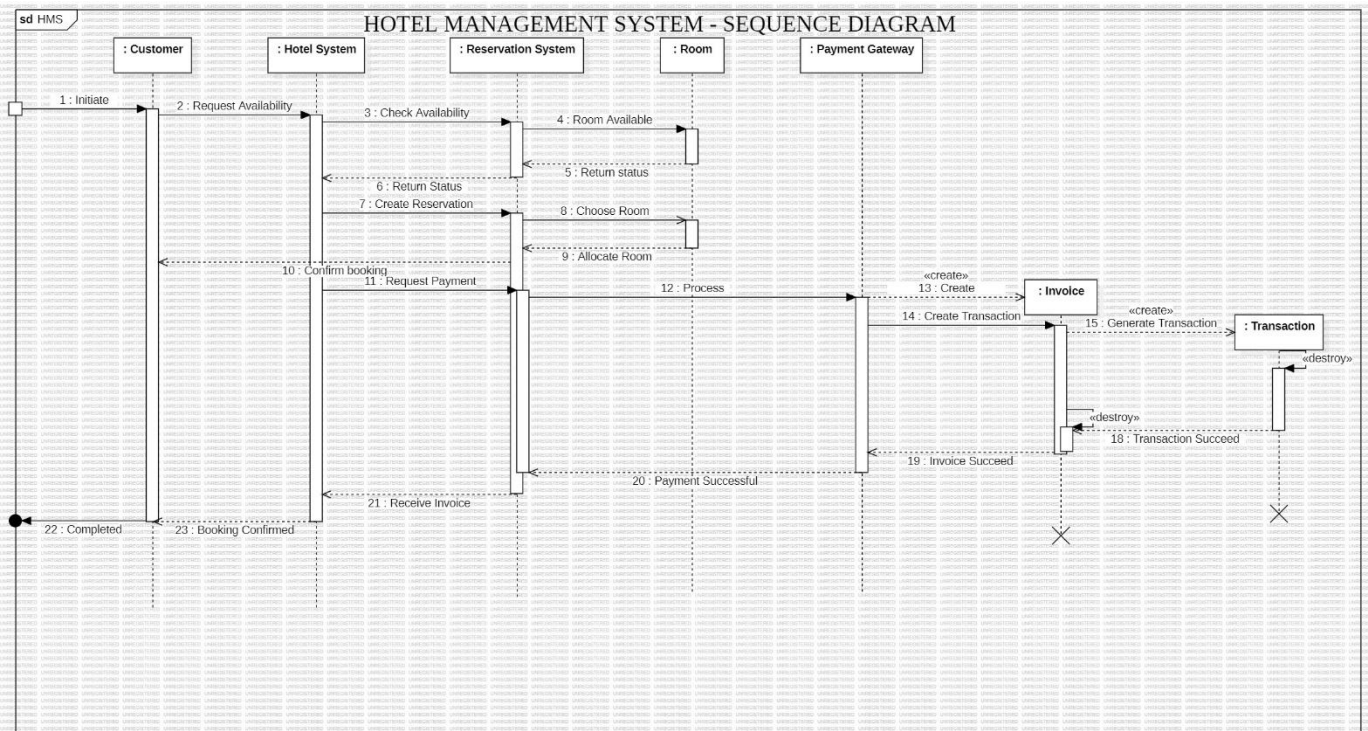
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HOTEL MANAGEMENT SYSTEM - USE CASE DIAGRAM

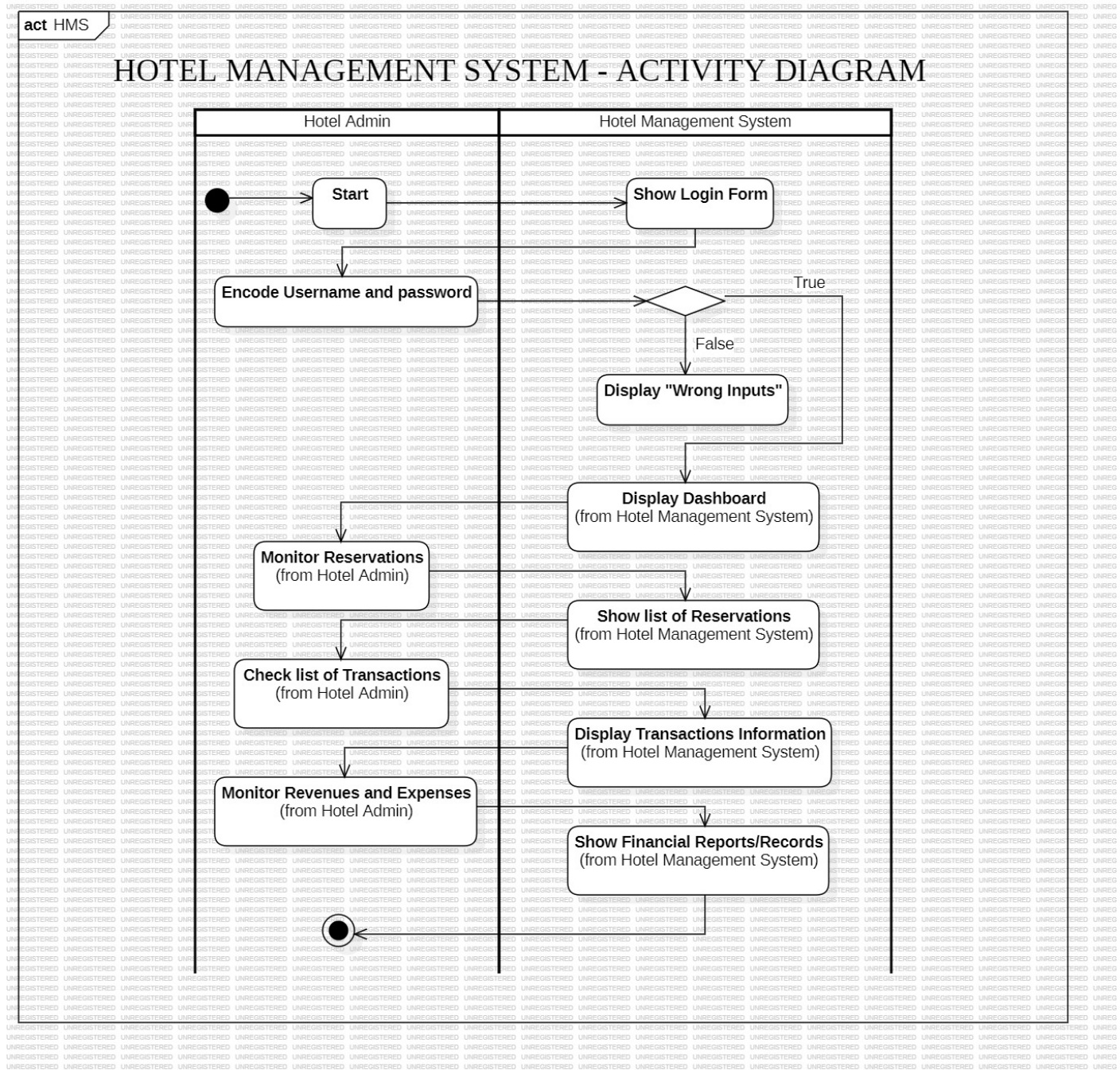


SEQUENCE DIAGRAM



ACTIVITY DIAGRAM

HOTEL MANAGEMENT SYSTEM - ACTIVITY DIAGRAM



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Activity Diagram

HOTEL MANAGEMENT SYSTEM - ACTIVITY DIAGRAM

