

Hotel Management System

• Functional requirements

- 1- the system shall allow the customer to book a room in the system.
- 2- the system shall allow the customer to request a room and select its type.
- 3-the system shall allow the customer to update booked rooms.
- 4- the system shall allow the customer to select from available rooms.
- 5-the system shall allow the customer to fill his/her information like (name, age, phone, no., address).
- 6- the system shall allow the customer to confirm his information.
- 7- the system shall allow the customer to get information about the price.
- 8- the system shall allow the customer to confirm booking.
- 9-the system shall allow the customer to provide payment details.
- 10- the system shall allow the customer to pay using credit card.
- 11-the system shall allow the customer to receive payment confirmation number.
- 12- the system allows the customer to select a room service (cleaning services, restaurant services, laundry services).
- 13-the system allow the customer to request cleaning services.
- 14- the system allows the customer to request a restaurant services.
- 15- the system allows the customer to request a laundry service.
- 16- the system allows the customer to pay for additional service.
- 17- the system shall allow the room service get notifications.
- 18- the system shall allow the room service check for notifications.
- 19- the system shall allow the room service to provide restaurant service.
- 20- the system shall allow the room service to provide cleaning service.



- 21- the system shall allow the room service to provide laundry service.
- 22-the system shall allow the customer to check out from the system.
- 23- the system shall allow the customer to receive price details for additional service.
- 24- - the system shall allow the customer to receive invoice.
- 25- the system shall allow the customer to confirm payment.
- 26-the system shall allow the receptionist to list available rooms.
- 27- the system shall allow the receptionist to list all the customers in the system.
- 29- the system shall allow the receptionist to get feedback from the customers.

• Non-Functional REQs

➤ Look-and-Feel REQs.

- 1-The system shall use only three colors
- 2-The system shall be attractive to the customers
- 3-The system shall be Comfortable for the eye
- 4- the system should use a lot of animation.

➤ Usability & Humanity REQs

- 1-The system shall be easy to use by the customers who might not be fluent in English.
- 2-The system shall be easy to use on the first attempt by the customers without training.
- 3-The customers should be able to easily ask for a help when there is an error in one of the reports.
- 4-The customers shall easily understand the schedule list of his /her consultations.
- 5-The system shall be available to all customers.



➤ Performance REQS

- 1- The system shall handle up to 5000 users simultaneously.
- 2- The system shall, on average, operate without failure for 25 days.
- 3- The system shall allow the customers to log in to the system within 0.5 second after entering his/her id and password.
- 4- the system size shall be 100Mbytes to save customers information.

➤ Operational & Environmental REQS

- 1- The system shall run with internet or without.
- 2- The system should work with set up pressure.
- 3- The system shall be used in variable lighting conditions.
- 4- The system shall save battery life.

➤ Maintainability & Support REQS

- 1- The system shall be able to be modified every time we need.
- 2- The system shall be able to add new numbers of customers every day/week/month.
- 3- The system shall be readily portable to Linux.

➤ Cultural REQS

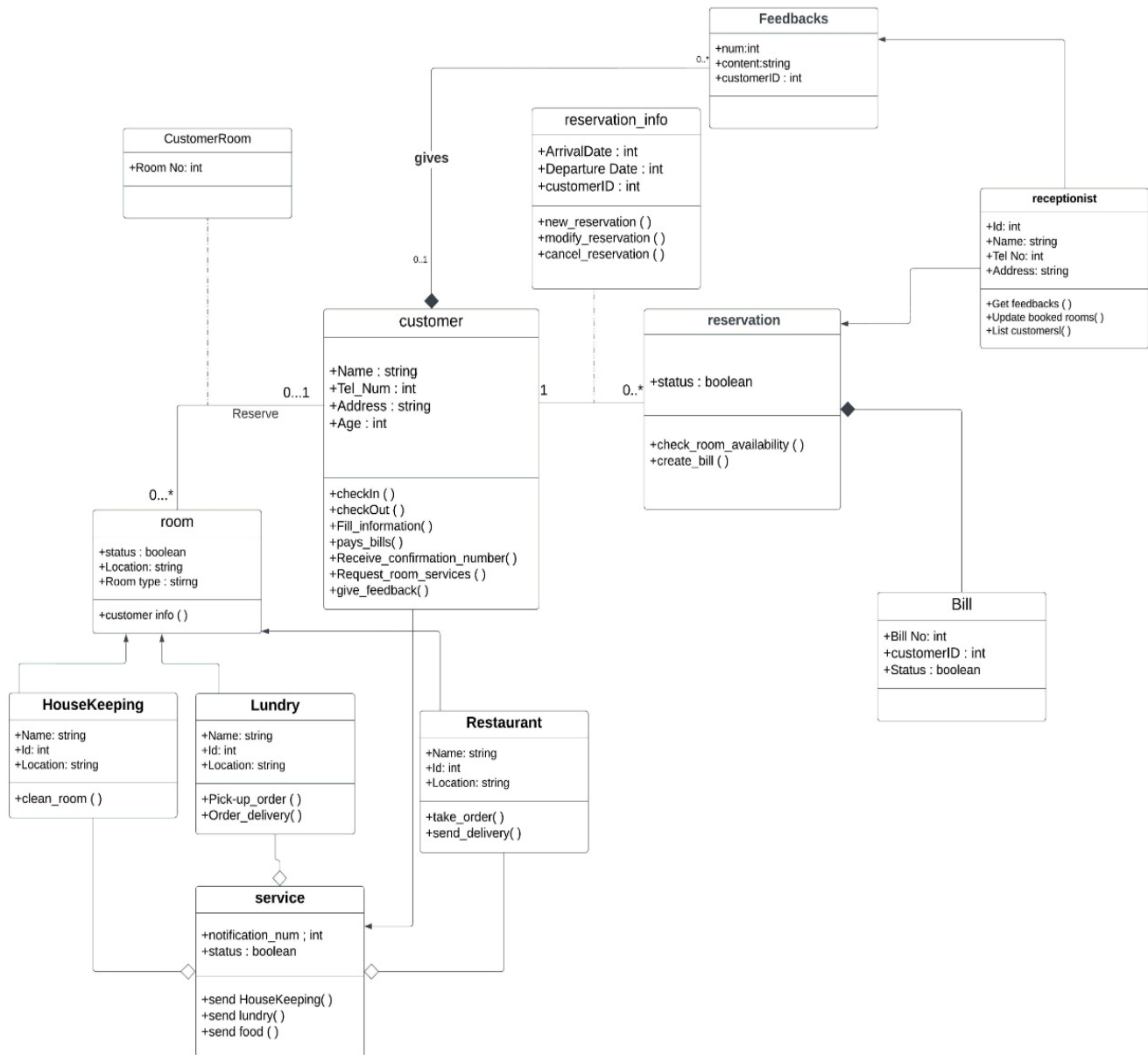
- 1- The language used in the interface should be formal and polite.

➤ Security REQS.

- 1- The system shall ensure that only authorized customers are able to gain access.
- 2- The system shall allow uninterrupted/continual access to data and functionality by authorized customers only.
- 3- The system shall protect member's data from unauthorized access.

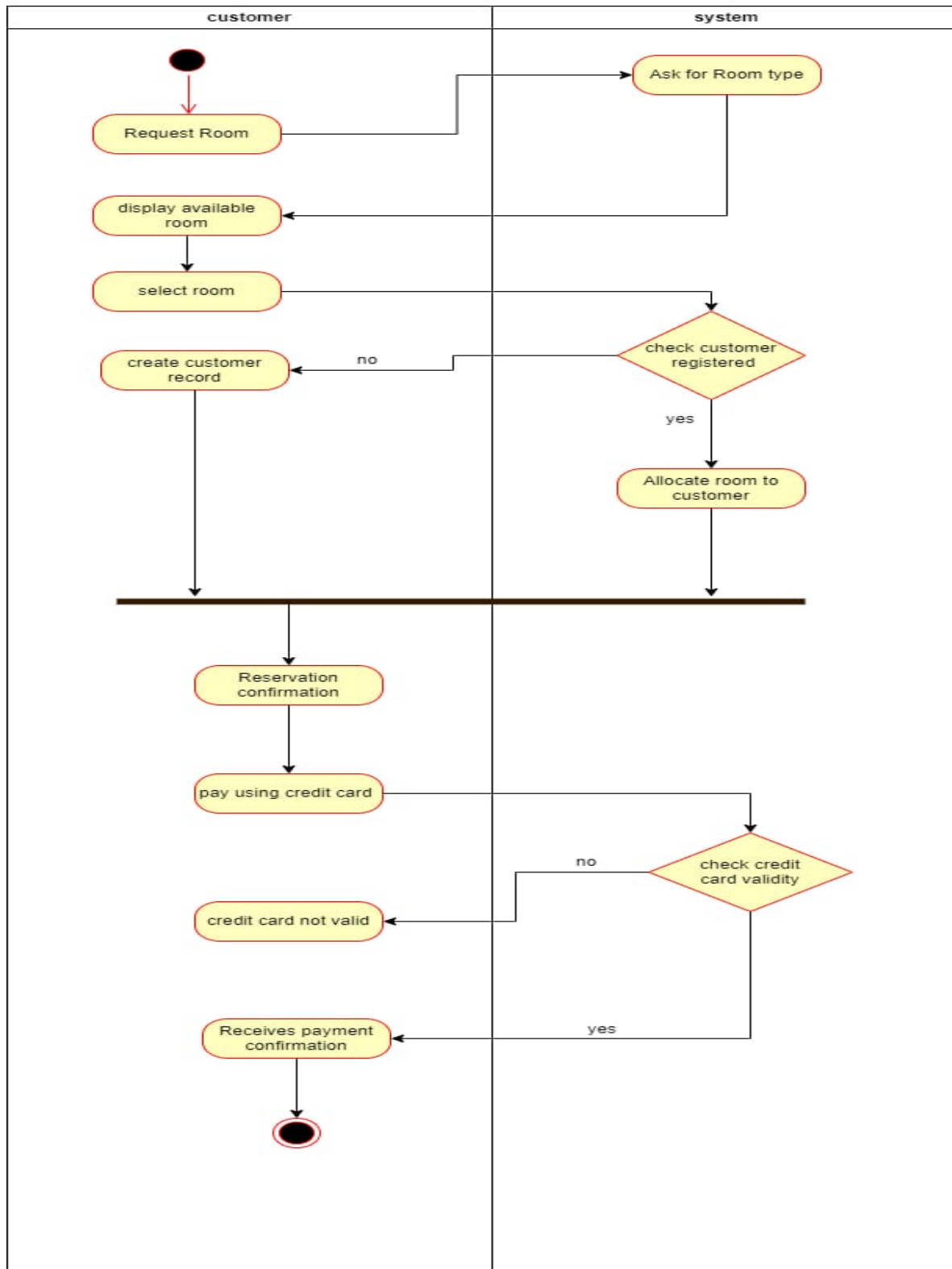


• Class Diagram

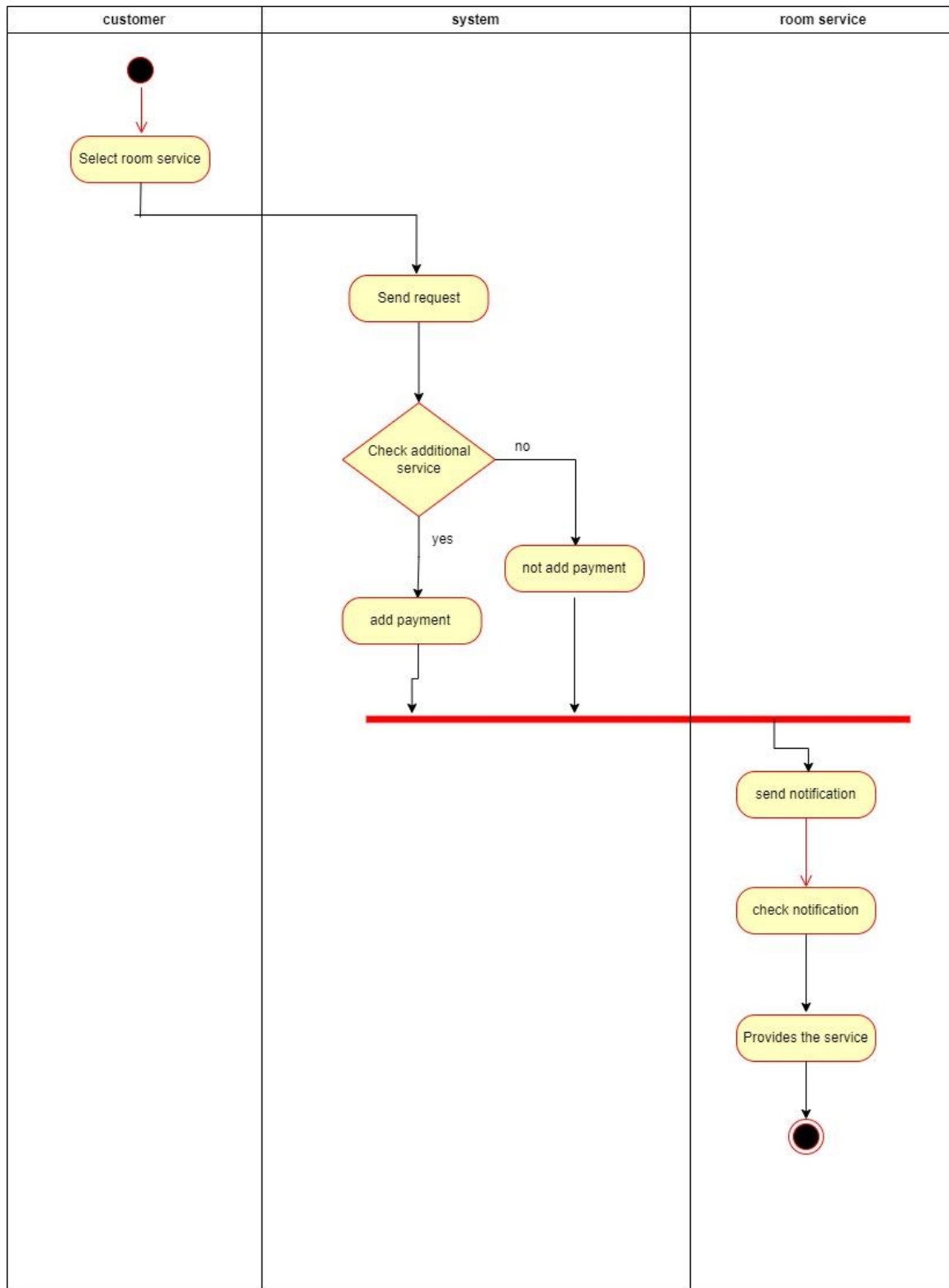


• Activity Diagram

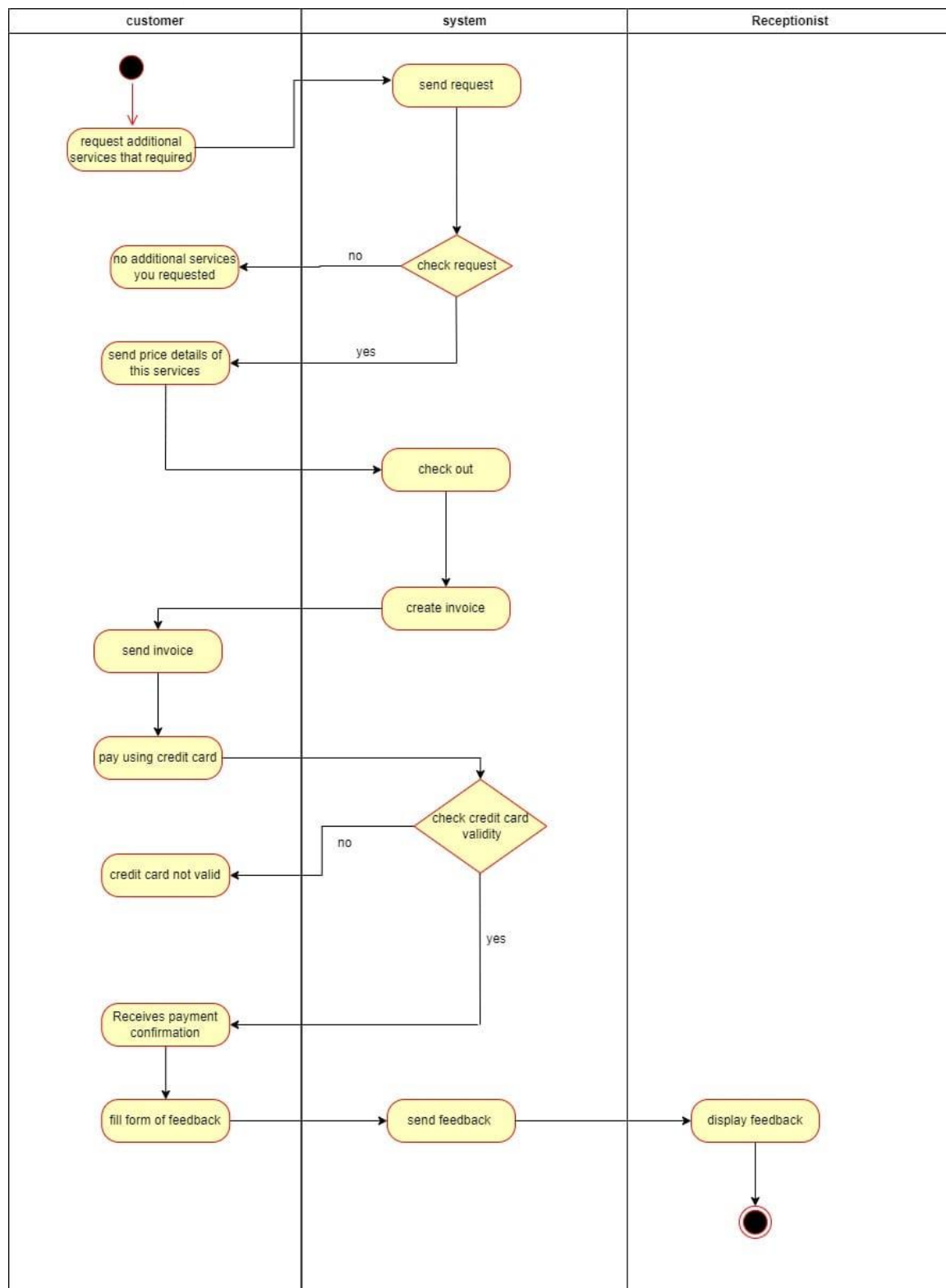
➤ request room



➤ Customer Service

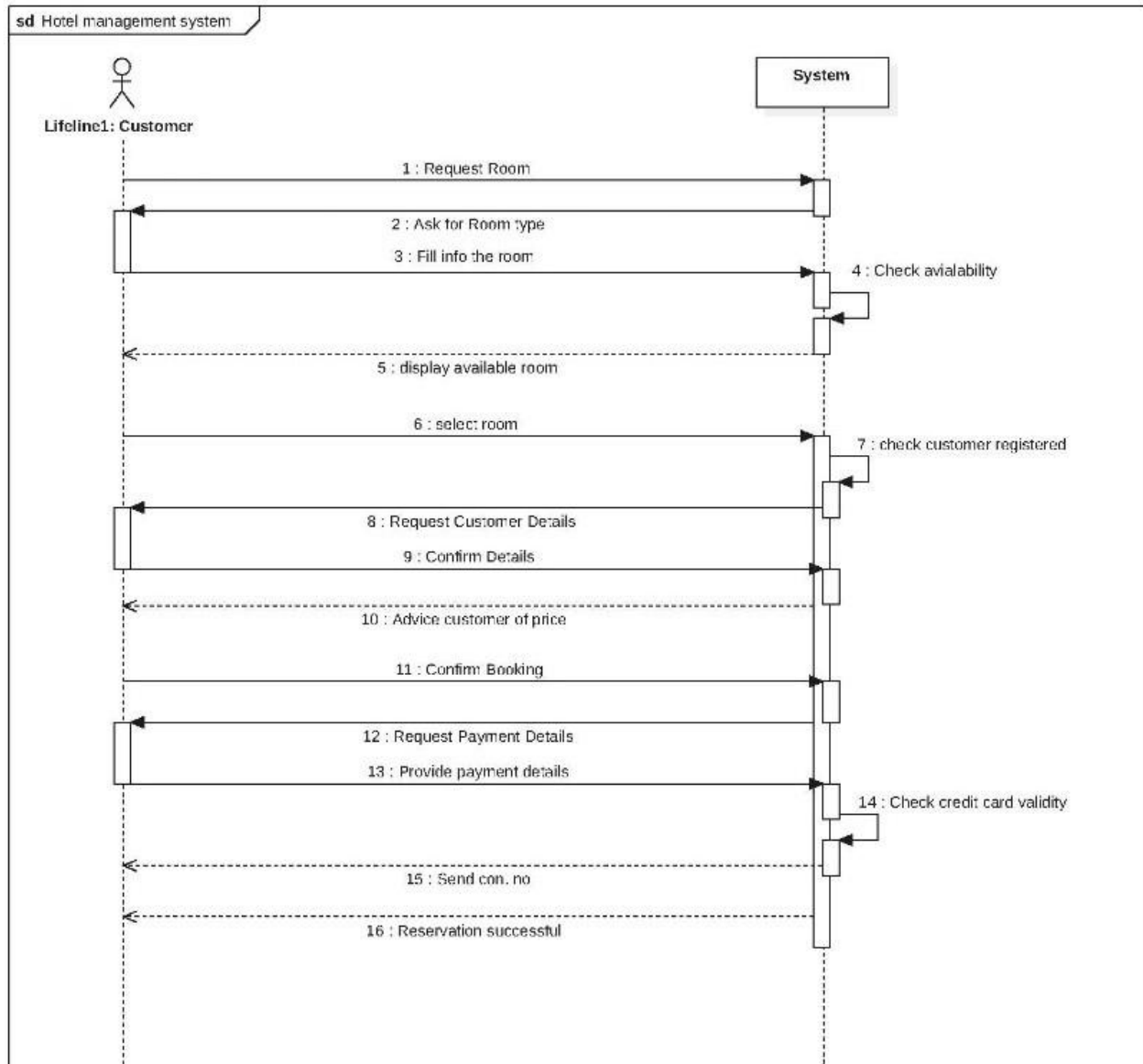


➤ Check out

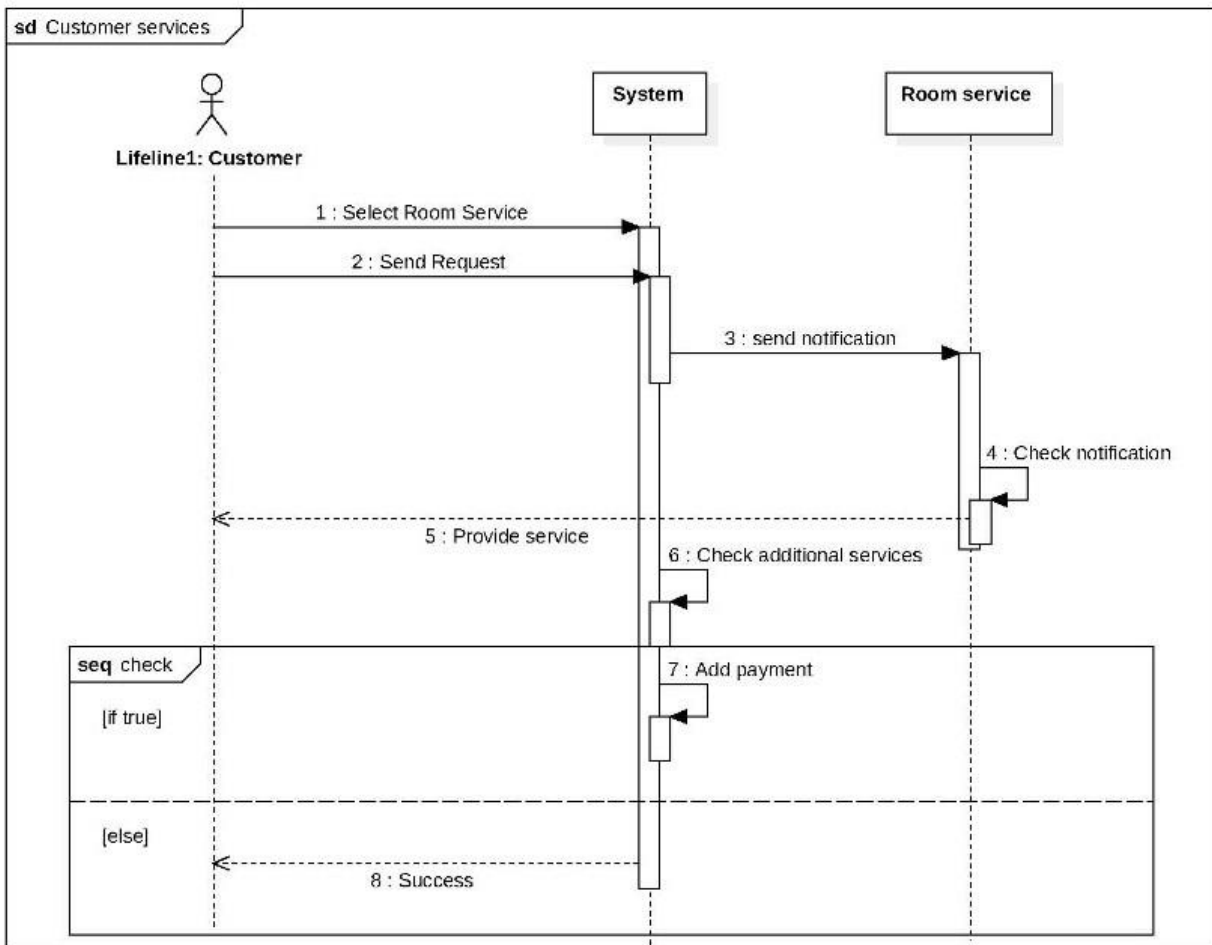


- Sequence Diagram

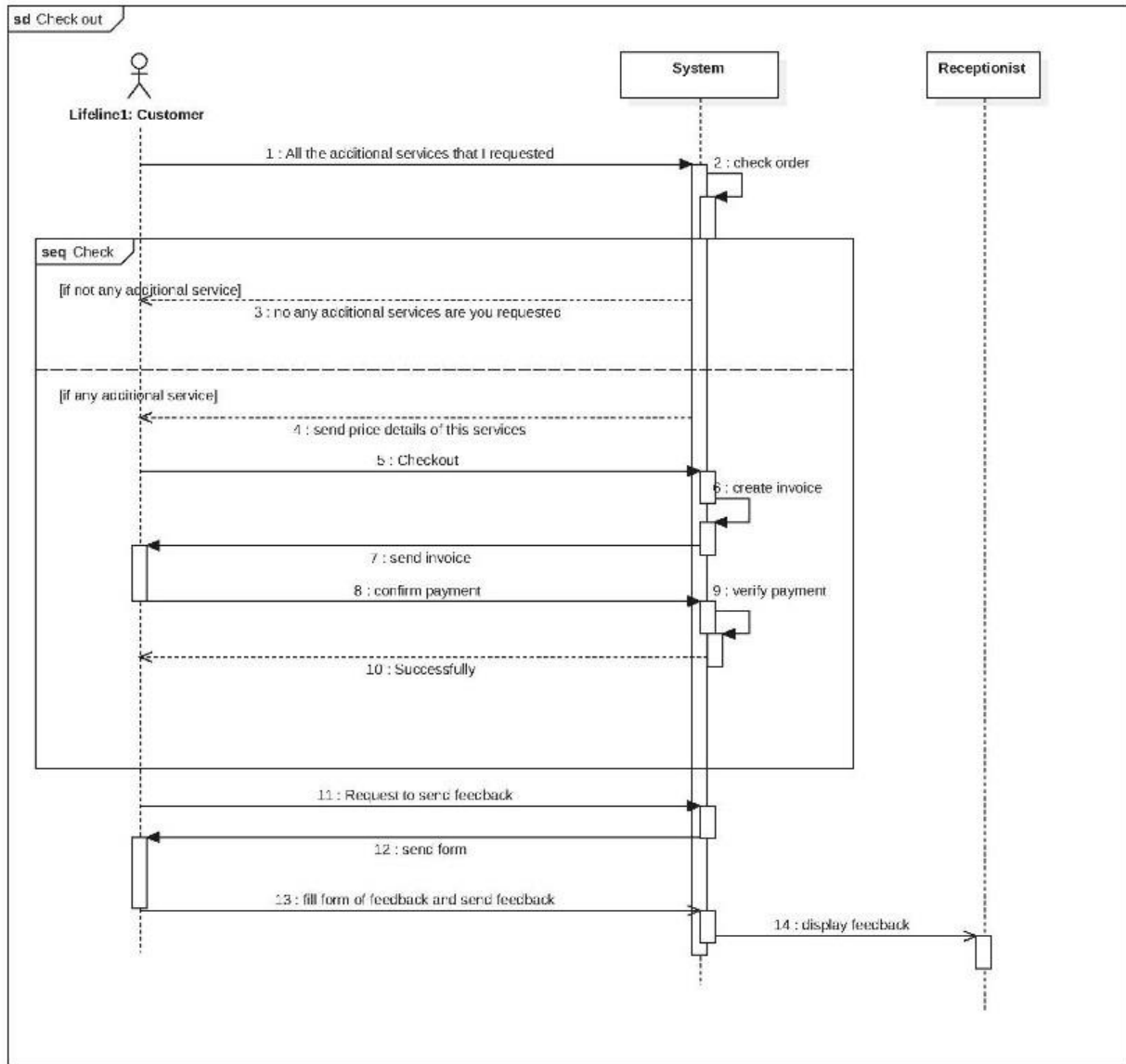
- Request room



➤ Customer service

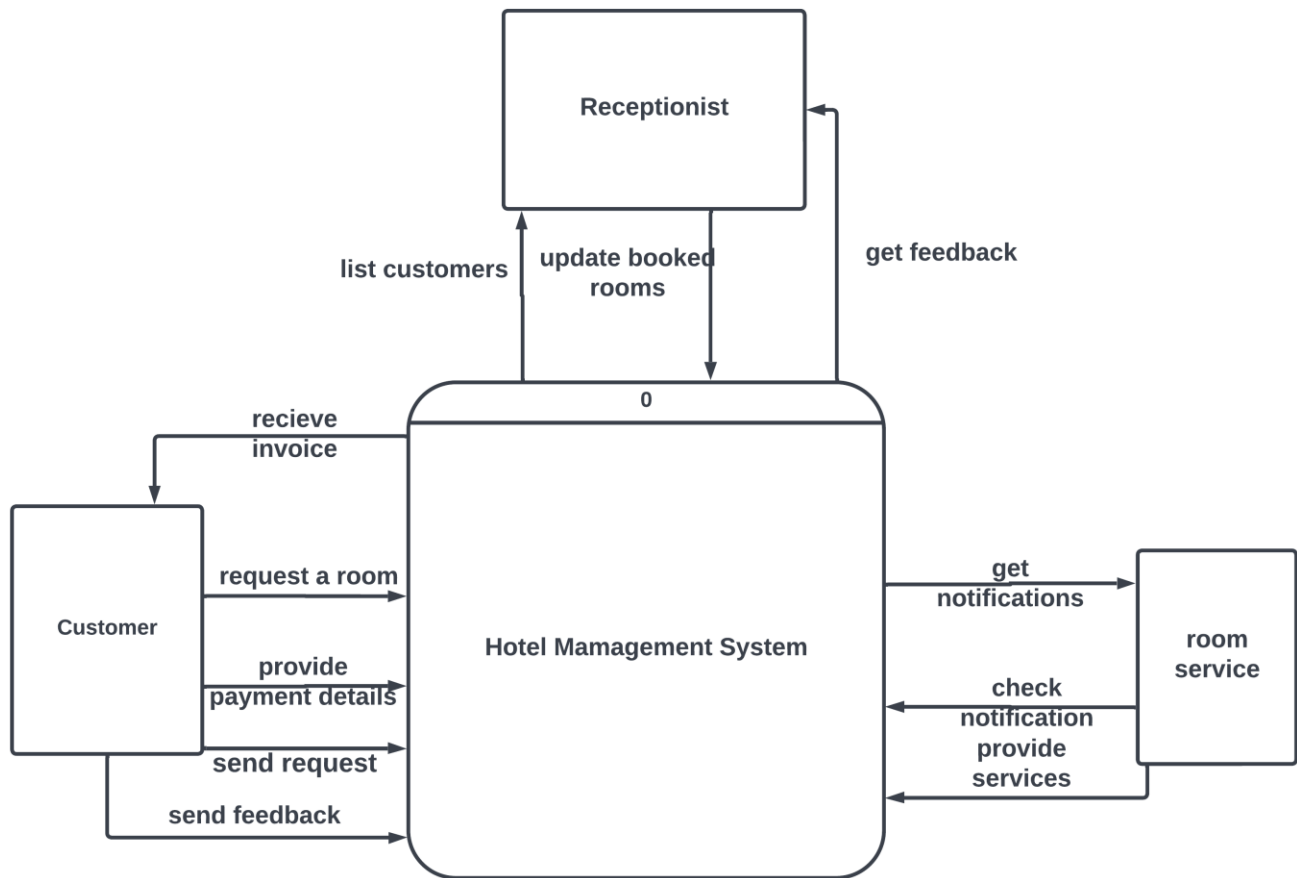


➤ Check out

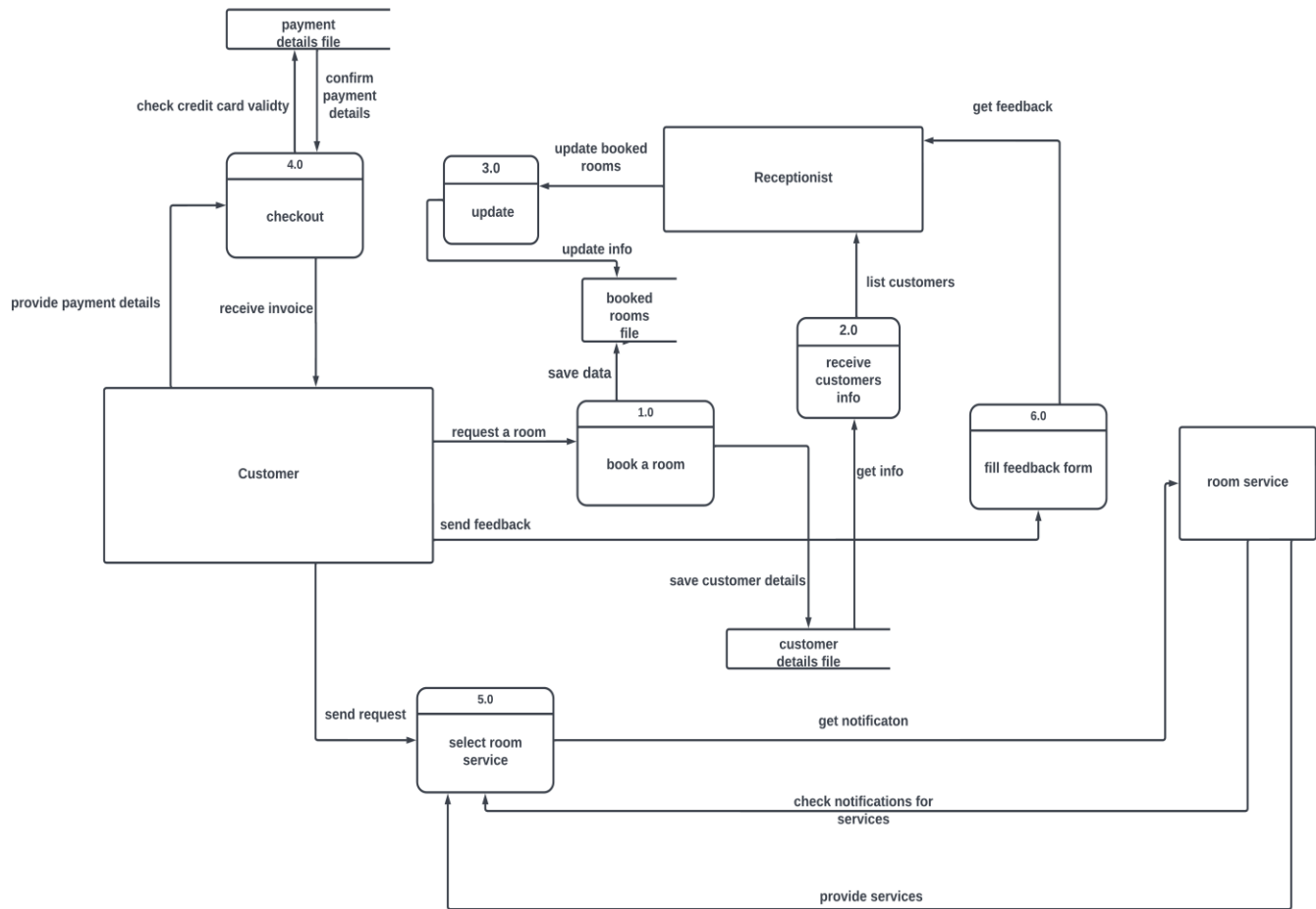


- Data Flow Diagram

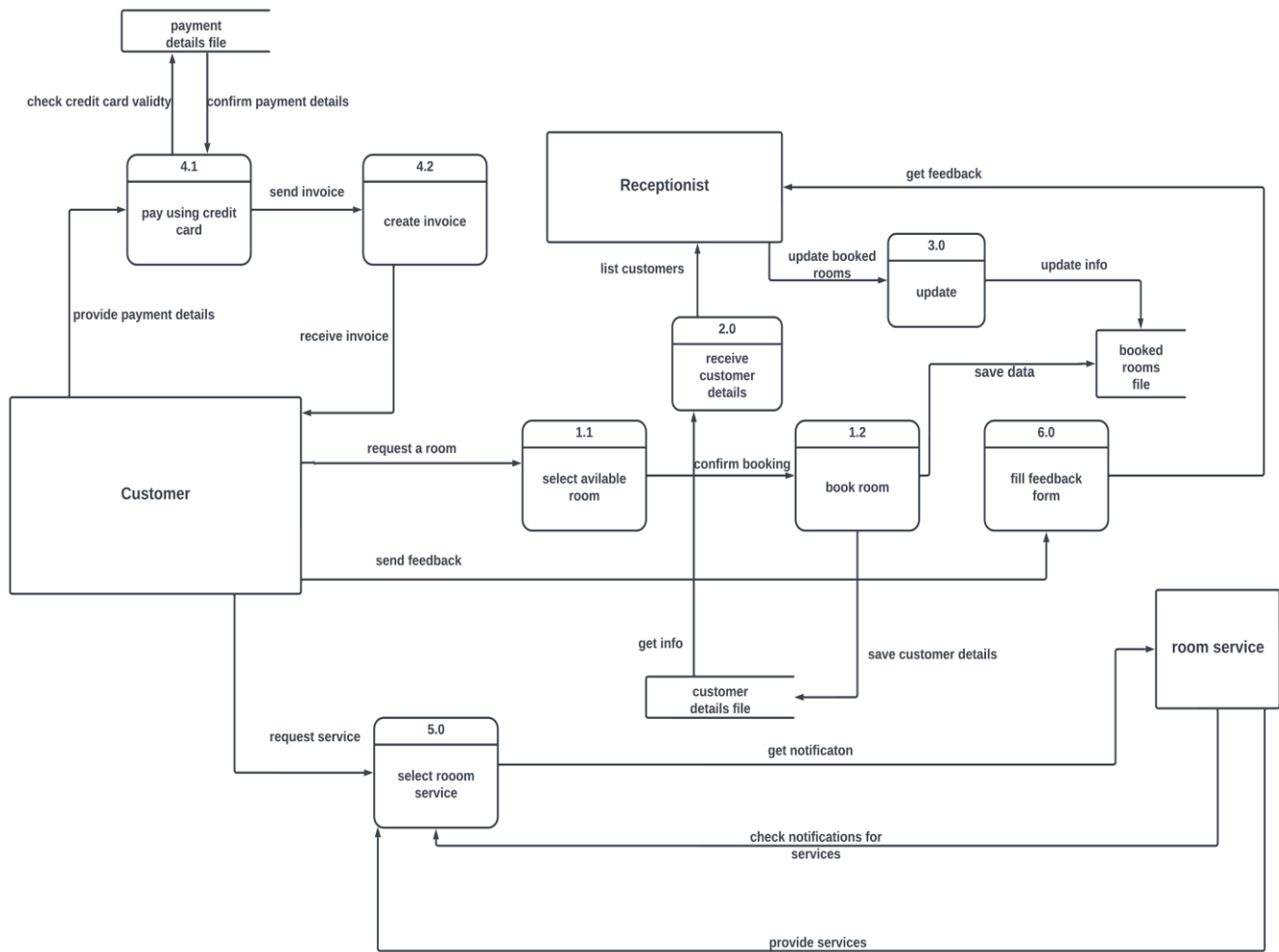
- Context level



➤ Level 0



➤ Level 1



- Use case diagram

