



Hotel Management Application

CSC343 Project

Group #9

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Project description: in this project we are working on a hotel management application in which we are using the skills we learned in this course like the functional and non-functional, use case diagram, actor-goal list, class diagram, and the activity diagram. The goal of this project is to use all these tools on the idea given.

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Functional requirements

1. The Application should add information about hotel.
2. The Application should update information about hotel.
3. The Application should delete information about hotel.
4. The Application should view/search information about hotel.
5. The Application should add information about branches.
6. The Application should update information about branches.
7. The Application should delete information about branches.
8. The Application should view/search information about branches.
9. The application should add information about managers.
10. The Application should delete information about managers.
11. The Application should update information about managers.
12. The Application should view/search information about managers.
13. The Application should add information about floor.
14. The Application should delete information about floor.
15. The Application should update information about floor.
16. The Application should view/search information about floor.
17. The application should add information about rooms.
18. The Application should update information about rooms.
19. The Application should delete information about rooms.
20. The Application should view/search information about rooms.
21. The Application should add information about guests.
22. The Application should update information about guests.
23. The Application should delete information about guests.
24. The Application should view/search information about guests.
25. The Application should add a Room to Floor.
26. The Application should add a Floor to Branch.
27. The Application should add a Branch to Hotel.
28. The Application should assign a manager to Branch.
29. The Application should assign a Guest to a room.
30. The Application should get Information of all Guests who stayed at hotel between two specific dates.
31. The Application should retrieve the Information of all Saudi guest stayed at hotel between two specific dates.
32. The Application should retrieve the Information of all branches that have empty rooms with rooms detail.
33. The Application should generate a report of all Saudi guests.
34. The Application should get the Information of managers for a specific branch.
35. The Application should retrieve the Information of all guests stayed in a specific branch within two dates.
36. The Application should retrieve the Information of all guests stayed in a specific room within two dates.
37. The Application should retrieve the Information of all the guests who have outstanding dues in all branches of the hotel.

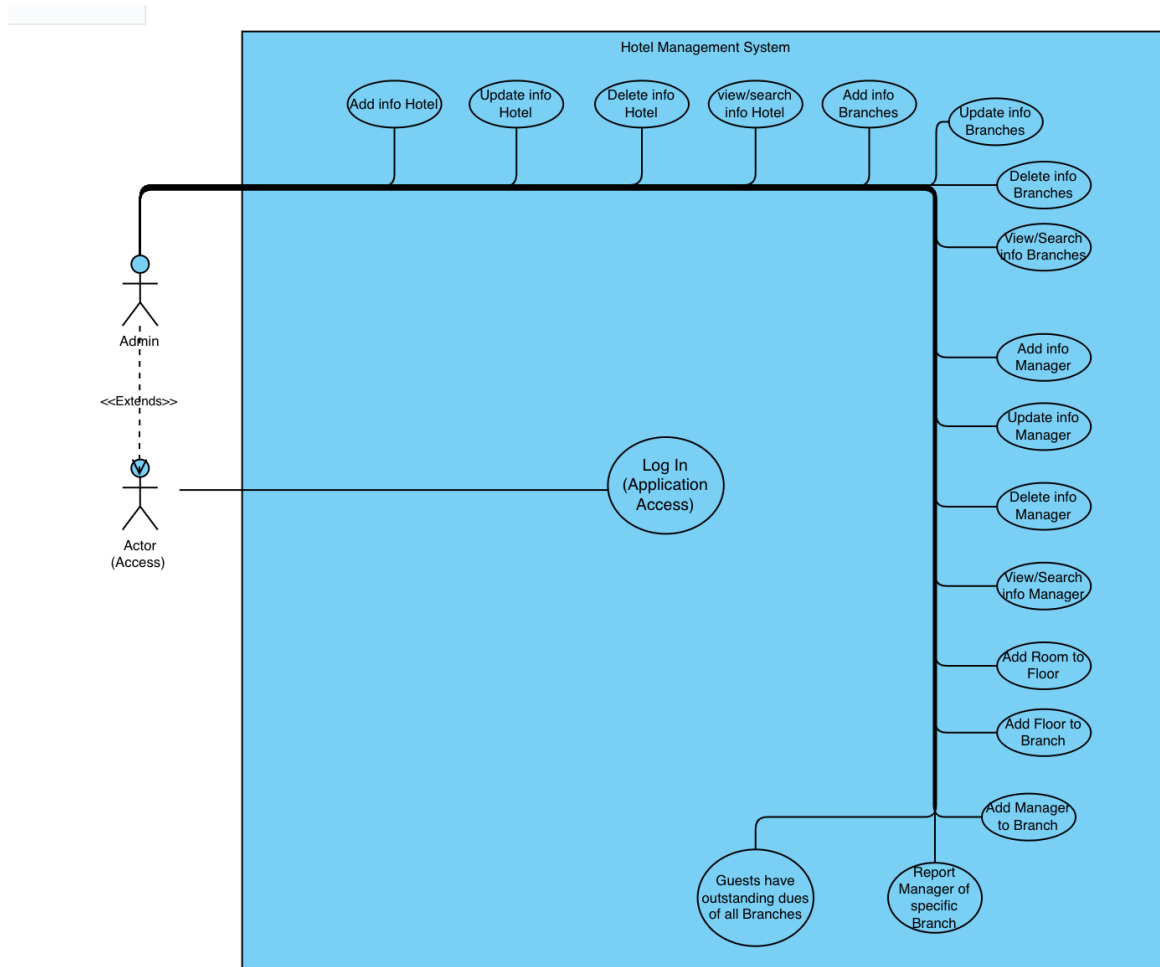
	<p>38. The Application should retrieve the Information of all guests who have outstanding dues in a specific branch of the hotel.</p> <p>39. The Application should check if the room is available.</p> <p>40. The Application should add a receptionist.</p> <p>41. The Application should delete a receptionist.</p> <p>42. The Application should update the information of a receptionist.</p> <p>43. 3The Application should search/view the information of the receptionist</p>
Non-functional requirements	<ol style="list-style-type: none"> 1. The Application Must be implemented on windows 10. 2. The Application Must add the vat after every booking operation. 3. The Application Must work with qr code reader for coupons. 4. The Application Must work 24/7 for late night bookings. 5. The Application Must have a user-friendly Gui for reception.

actor	goal
Administrator	<ul style="list-style-type: none"> • The Application should add information about hotel. • The Application should update information about hotel. • The Application should delete information about hotel. • The Application should view/search information about hotel. • The Application should add information about branches. • The Application should update information about branches. • The Application should delete information about branches. • The Application should view/search information about branches. • The application should add information about managers. • The Application should delete information about managers. • The Application should update information about managers. • The Application should view/search information about managers. • The Application should add a Room to Floor. • The Application should add a Floor to Branch. • The Application should add a Branch to Hotel. • The Application should assign a manager to Branch. • The Application should get the Information of managers for a specific branch. • The Application should retrieve the Information of all the guests who have outstanding dues in all branches of the hotel.
Manager	<ul style="list-style-type: none"> • The Application should add information about floor. • The Application should delete information about floor. • The Application should update information about floor. • The Application should view/search information about floor. • The Application should retrieve the Information of all branches that have empty rooms with rooms detail.

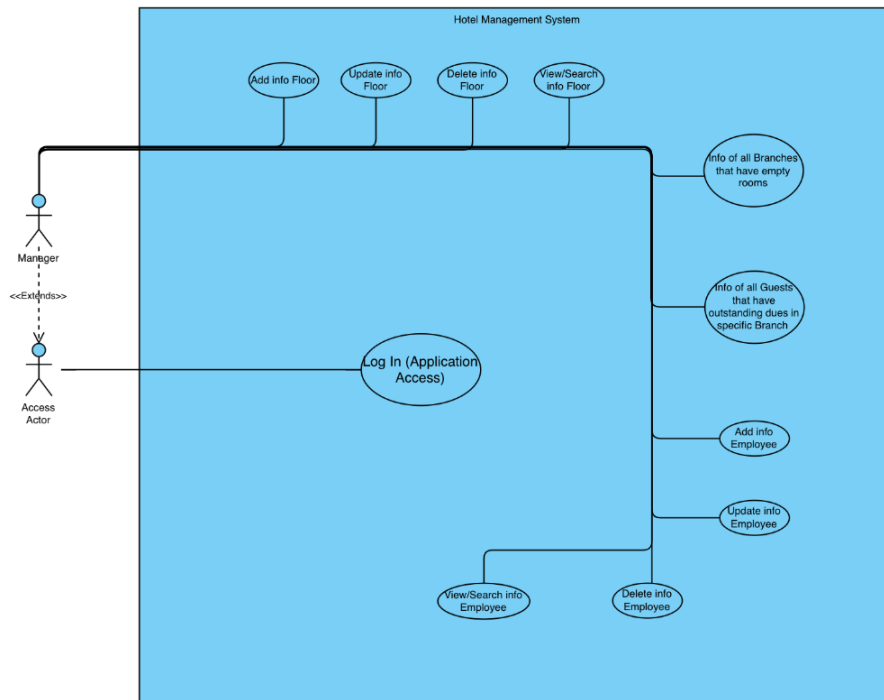
	<ul style="list-style-type: none"> • The Application should retrieve the Information of all guests stayed in a specific branch within two dates. • The Application should add a receptionist. • The Application should delete a receptionist. • The Application should update the information of a receptionist. • The Application should search/view the information of the receptionist.
receptionist	<ul style="list-style-type: none"> • The application should add information about rooms. • The Application should update information about rooms. • The Application should delete information about rooms. • The Application should view/search information about rooms. • The Application should add information about guests. • The Application should update information about guests. • The Application should delete information about guests. • The Application should view/search information about guests. • The Application should assign a Guest to a room. • The Application should get Information of all Guests who stayed at hotel between two specific dates. • The Application should retrieve the Information of all Saudi guest stayed at hotel between two specific dates. • The Application should retrieve the Information of all guests stayed in a specific room within two dates. • The Application should check if the room is available. • The Application should generate a report of all Saudi guests.

Use-case diagrams:

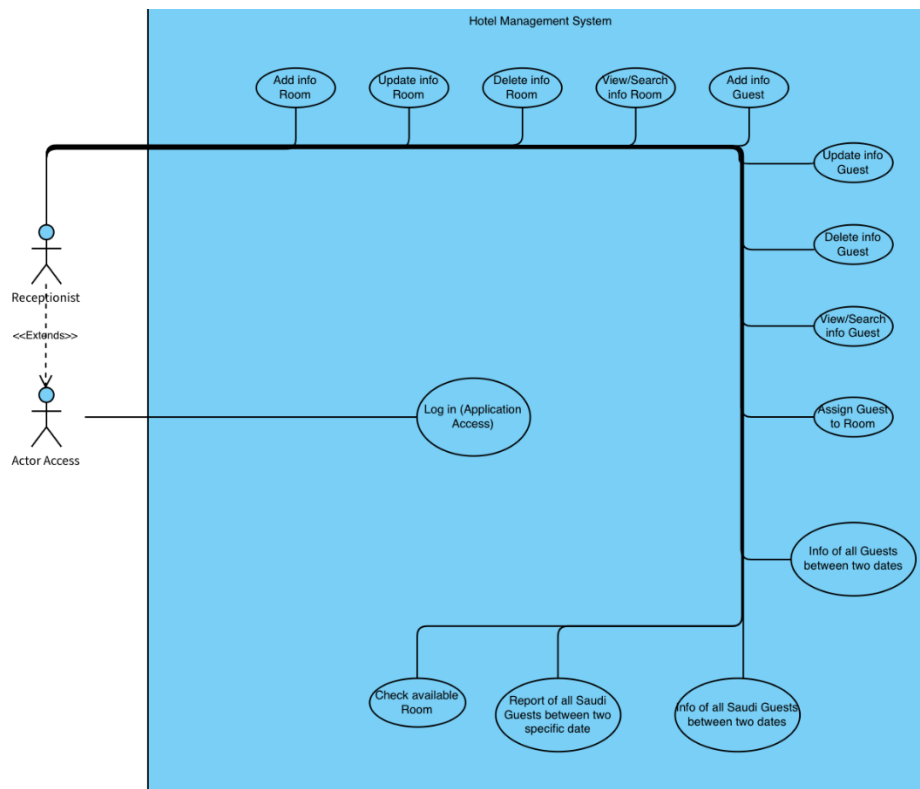
The administrator:



The Manager:



The Receptionist:



Description of use-case:

Use case Name: Assigning guest to a room.

Actor: Receptionist

Precondition: Room is available.

Post condition: Room is booked.

<u>User Actions</u>	<u>System Response</u>
i. The user enters the Guest's card number to check for previous dues.	i. System responses with the validation message. Exp1
ii. The user enters the room's information (number , availability) to check its availability.	ii. System responses with the availability of the room. Exp2
iii. The user directs the system to assign the guest to the room. Alt1	iii. The System responses with the assigning message. Use case ends.

Exception 1: Guest has previous dues. No room assigned. Use case ends.

Exception 2: Room is not Available. Go to step ii. or end use case.

Alternative 1: User directs the system to cancel the booking. Use case ends.

Use case Name: Information of all Saudi guest stayed at hotel between two specific dates.

Actor: Receptionist

Precondition: There is Saudi guests that stayed at the Hotel.

Post condition: Generate a report with Information of all Saudi guest stayed at hotel between two specific dates.

<u>User Actions</u>	<u>System Response</u>
i. The user check if there is Saudi guest that had stayed in the hotel and the user enters the two dates to generate the report.	i. System responses with the validation message. Exp1, Exp2
ii. The user directs the system to generate a report with information of all Saudi guest who stayed at hotel between those two dates. Alt1	ii. The System responses with the generated report. Use case ends.

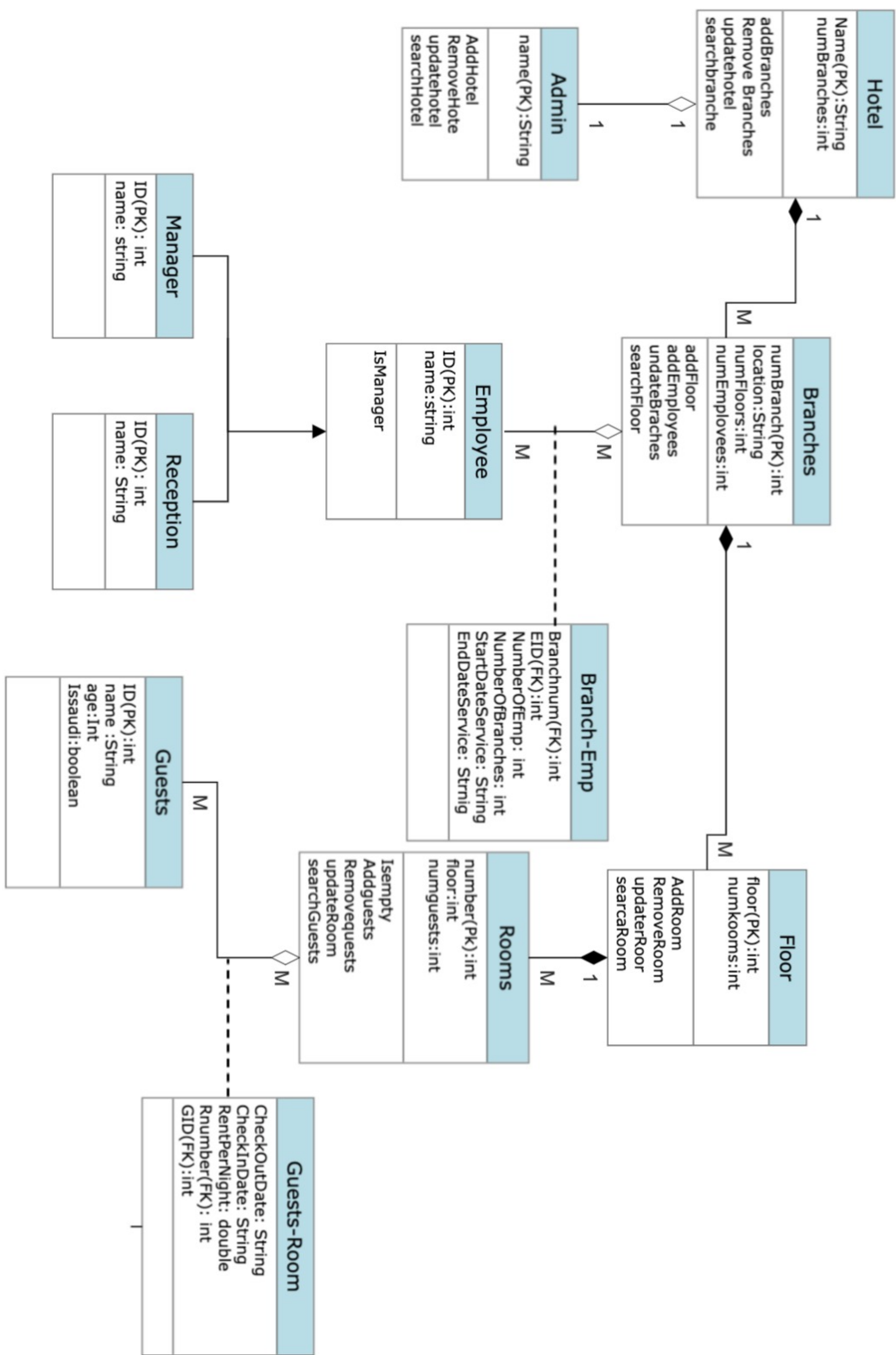
Exception 1: There is no Saudi Guests that stayed in the hotel. Use case ends.

Exception 2: The user entered invalid dates. Go to step ii. or end use case.

Alternative 1: User directs the system to cancel the report. Use case ends.

The class diagram:

The class diagram:



The activity diagram:

