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Documentation

Hotel Management System

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1. Introduction

This is the final report document for developed hotel management system for Dayal hotel. It consists of the milestones in development of finalized hotel management system.

As previously mentioned current manual system used by hotel, caused for decrement in growth of success and efficiency of the hotel.

Iterative waterfall method was used as the software development life cycle. Coding was handled through an Object-oriented approach. Above mentioned methodologies made project work load light and provided the ease of developing. The system was evaluated by several people regarding user levels of the developed system. Results of the evaluation helped for further maintenance of the product. Fully functional Dayal Hotel Management System will fulfil the main objectives and all the events of the hotel.

1.1 Purpose

The Software Requirements Specification (SRS) will provide a detailed description of the requirements for the Hotel Management System (HMS). This SRS will allow for a complete understanding of what is to be expected from the newly introduced system which is to be constructed. The clear understanding of the system and its' functionality will allow for the correct software to be developed for the end user and will be used for the development of the future stages of the project. This SRS will provide the foundation for the project. From this SRS, the Hotel Management System can be designed, constructed, and finally tested.

This SRS will be used by the system development team which is constructing the HMS and the hotel end users. The Project team will use the SRS to fully understand the expectations of this HMS to construct the appropriate software. The hotel end users will be able to use this SRS as a "test" to see if the constructing team will be constructing the system to their expectations. If it is not to their expectations the end users can specify how it is not to their liking and the team will change the SRS to fit the end users' needs.

1.2 Scope of the Project

The introducing software, Hotel Management System which is going to be implemented for Hotel Dayal will automate the major operations of the hotel. The Reservation System is to keep track in room and hall reservation and check availability. The Room

Management System is for manage all room types room services. The Inventory Control System will keep track in all inventories of the hotel and guest details will handled by guest management. Administration department will monitor the all. There is three End Users for HMS. The End Users Are Owner, Manager and Receptionist. Owner can access to all system functionalities without any restrictions. Manager can access to all system functionalities with limited restrictions. Receptionist can only access to the Reservation management section. To keep restrictions for each End User levels HMS can create different Login functions.

The objectives of the automated Hotel Management System is to simplify the day to day processes of the hotel. The system will be able to handle many services to take care of all customers in a quick manner. As a solution to the large amount of file handling happening at the hotel, this software will be used to overcome those drawbacks. Safety, easiness of using and most importantly the efficiency of information retrieval are some benefits the development team going to present with this system. The system should be user appropriate, easy to use, provide easy recovery of errors and have an overall end user high subjective satisfaction.

1.3 Definition, Acronyms and Abbreviations

H.M.S. – Hotel Management System

SRS – Software Requirements Specification

End users – The people who will be actually using the system

SQL – Structural Query Language

1.4 References

Books References:

- [1] Ian Sommerville, *Software Engineering 8th edition*. Pearson education, 2008.
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- [4] Gerald W. Latin, *Modern hotel management*, W.H. Freeman, 2011.
- [5] Michael J. O'Fallon, Denney G. Rutherford, *Hotel Management and Operations illustrated edition*, John Wiley & Sons, 2001

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www.softwareadvice.com/hotel-management

<http://www.high-level-software.com/features/>

<https://www.scribd.com/doc/153679335/SRS-Hotel-Management-System>

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<http://www.liacs.nl/assets/Bachelorscripties/2006-08JanneLouw.pdf>

1.5 Overview

This SRS is organized into two parts the first is the overall description and the second section is the specific requirement.

The overall description will describe the requirement of Hotel Management System.

The specific requirement section describes the detail of the system.

2 Overall Description

2.1 Product Perspective

The Hotel Management System is a new self-contained software product which will be produced by the project team in order to overcome the problems that have occurred due to the current manual system. The newly introduced system will provide an easy access to the system and it will contain user friendly functions with attractive interfaces. The system will give better options for the problem of handling large scale of physical file system, for the errors occurring in calculations and all the other required tasks that has been specified by the client. The final outcome of this project will increase the efficiency of almost all the tasks done at the Hotel in a much convenient manner.

2.2 Product Functions

- Make Reservations
- Search Rooms
- Add Payment
- Issue Bills
- Manage Guest (Add, Update Guest)
- Manage Room Details (Add, Update, Delete)
- Manage Staff (Add, Update, Delete, View)
- Manage Inventory (Add, Edit, Delete)
- Set Rates
- Retrieve Reports (Staff payment, Income)
- Manage Users (Add, Update, Delete)
- Taking Backups
- E-mail notifications

Functional Requirements

Function 1	Make Reservations
Input	MemberCode, Total childs, Total Adults, check-in date, check out date, status, Number of nights
Output	Database Record, Database successfully updated pop-up
WorkFlow	Validate the given details and record the information in to the database.

Function 2	Add Guest
Input	Member MemberCode, Contact, Company, Name, E-mail, Gender, Address
Output	Database Record, Database successfully updated pop-up
WorkFlow	Validate the given details and record the information in to the database.

Function 3	Add staff member
Input	MemberCode, Employee Name, Employee Address, NIC, Salary, Name Age, Occupation, E-mail
Output	Database Record, Database successfully updated pop-up
WorkFlow	Validate the given details and record the information in to the database.

Function 4	Search Rooms
Input	Period, Check-in, Check-out, Guest
Output	Display a pop-up with available room details
WorkFlow	Validate the given details and check for the available rooms in a given time period and return its availability.

Function 5	Add Payments
Input	Total,1 pay time, Credit card details
Output	Database Record, Database successfully updated pop-up
WorkFlow	Validate the given details and record the information in to the database.

Function 6	Issue Bill
Input	Billing no, Quantity, Price, Taxes, Date, Services, Unit
Output	Printed version of the bill
WorkFlow	Validate the given details and total cost is calculated according to the Services gain by the customer.

Function 7	Set Rates
Input	Check-in, Check-out, Day, No. of guests, First night price, Extension price
Output	Database Record, Database successfully updated pop-up
WorkFlow	Validate the given details and record the information in to the database.

Function 8	Taking Backups
Input	Location to save the backup file
Output	Display a pop-up showing backup successfully created
WorkFlow	Validate the user given location to save the backup file. Save the backup file to the user specified location

2.3 User Characteristics

2.3.1 Owner: -

Owner of the Hotel Can Monitor and authorize the task handle by the system. Owner can use all the function performed by the system. Owner of the company as well as the system can access to the administration panel which is consider the core of the system. As the owner of the company owner gets the ability to manage the other users including their user levels and privileges. Taking backups of the system and restoring system can also be done by the Owner. Meanwhile he will be able to take all the kinds of reports available in the system. As the owner of the system and the company he has the power to set room rates as well. Hotel owner has the sole right of deleting a staff member from the system database.

2.3.2 Manager:

Manager is responsible for managing resources available in hotel management system. Manager also has most of the privileges mentioned above except the things regarding the payment handling. The reason for using a Manager is to reduce the work load done by the owner that cannot be assigned to the receptionist, as those tasks seem much responsible. The user level, Manager has the authority to take all the reports available in the system but here also except the reports related to financial stuff, hotel income. Manager has other abilities that receptionist, user level has. Such as, adding new staff member to the system, modifying them or removing them, adding new guests to the system, modifying them and removing them from the system, adding new inventory to the system, modifying them and removing them. Adding new room types to the system, modifying them and removing them

2.3.3 Receptionist:

As a hotel receptionist, he or her role will be to attain the goals of bookings and to ensure that all guests are treated with a high standard of customer service. Hierarchically receptionist role has the least accessibility to the system functions. Receptionist plays the boundary role of the system. He or she can perform limited functions such as registering new guest to the system, make reservations, Sending e-mail reminders to clients for booking confirmation. Management of hotel will prefer to hire receptionist who have a good standard of general education and possibly in subjects such as English, math and IT.

2.4 Constraints

Software development crew provides their best effort in developing the system. In order to maintain the reliability and durability of system, some design and implementation constraints are applied. Availability of an android app for hotel management system could make the system portable but due to time constraint it is not possible. System will need a minimum memory of 512MB. But it is recommended to have a memory of 1GB. When designing interfaces of system, we had the capability of work with new tools such as Dev Express. Considering the client's budget, we decided to create those interfaces in a simple realistic manner using affordable technology.

2.4.1 Hardware

1. **Operating System** Supports all known operating systems, such as Windows, Linux
2. **Computer** 512MB+ RAM, monitor with minimum resolution of 1024x768, keyboard, and mouse
3. **Hard Drive** should be in NTFS file-system formatted with minimum 10 GB of free space
4. **A Laser printer** will need to be used to print these reports and notes

2.4.2 Software

1. Software is designed to run on any platform above Microsoft Windows 7 (32bit).
2. Microsoft .NET Frameworks 4.0 or above.
3. Microsoft SQL Server Management Studio Express 2010.

2.4.3 High level Language

- 1) MS SQL server studio express 2008 (backend)
- 2) C# (front end)

2.5 Assumption and Dependencies

Some software used in implementing the system is with high cost and the client has agreed to afford the amount of money needed to purchase them. It's assumed that client won't change that decision on the next phases of the software development. Although we assume that client is using windows 7 or windows 8. Otherwise if client use an open source operating system, there is a need of changing the SRS accordingly.

Specific Requirement

3.1 Functional Requirement

- Make Reservations
- Search Rooms
- Add Payment
- Issue Bills
- Manage Guest (Add, Update Guest)
- Manage Room Details (Add, Update, Delete)
- Manage Staff (Add, Update, Delete, View)
- Manage Inventory (Add, Edit, Delete)
- Set Rates
- Retrieve Reports (Staff payment, Income)
- Manage Users (Add, Update, Delete)
- Taking Backups
- E-mail notifications

3.2 Non Functional Requirements

3.2.1 Safety Requirements

There are several user levels in hotel management system, Access to the various subsystems will be protected by a user log in screen that requires a user name and password. This gives different views and accessible functions of user levels through the system. Maintaining backups ensure the system database security. System can be restoring in any case of emergency.

3.2.2 Security Requirements

Customer Service Representatives and Managers and owner will be able to log in to the Hotel Management System. Customer Service Representatives will have access to the Reservation/Booking and subsystems. Managers will have access to the Management subsystem as well as the Reservation/Booking subsystems. Owner has the maximum privilege to all subsystems. Access to the various subsystems will be protected by a user log in screen that requires a user name and password.

3.2.3 Other Requirements

When the system is completely developed and submitted to the client, few sessions will be required to make the users of the system understand about the functionality of it and some time to adapt to the system. After those sessions, it's required that a member from the development team should spend sometime in the system background for an agreed time period. That time period will be used in identifying new bugs that could not be reached in the earlier phases of the development process.

Client should have a valid e-mail account in order to receive reservation e-mail notifications.

3.3 External Interface

3.3.1 User Interface

User friendly dashboard of system



Hotel Management System

Login interface is used to login to the system using username and password for three different users



Hotel Management System

Adding new guest to the system

The 'Home' window displays a form for adding a new guest, organized into four main sections:

- Guest Information:** Includes fields for Name (with a dropdown), Address, and Country (with a dropdown).
- Contact Information:** Includes fields for Phone, Mobile, and Email.
- Other Information:** Includes fields for ID type (with a dropdown) and ID number, Gender (radio buttons for Male and Female), VIP status (with a dropdown), No. of Adults, and No. of Children.
- Stay Information:** Includes fields for Room(s) (with a dropdown), Special Request, Arrival/Check In (with a date picker set to Saturday, July 26, 2014), Departure/Checked out (with a date picker set to Saturday, July 26, 2014), and Rate Type (with a dropdown).

At the bottom right, there are two buttons: 'Temp Reserve' and 'Reserve'.

Make a new reservation

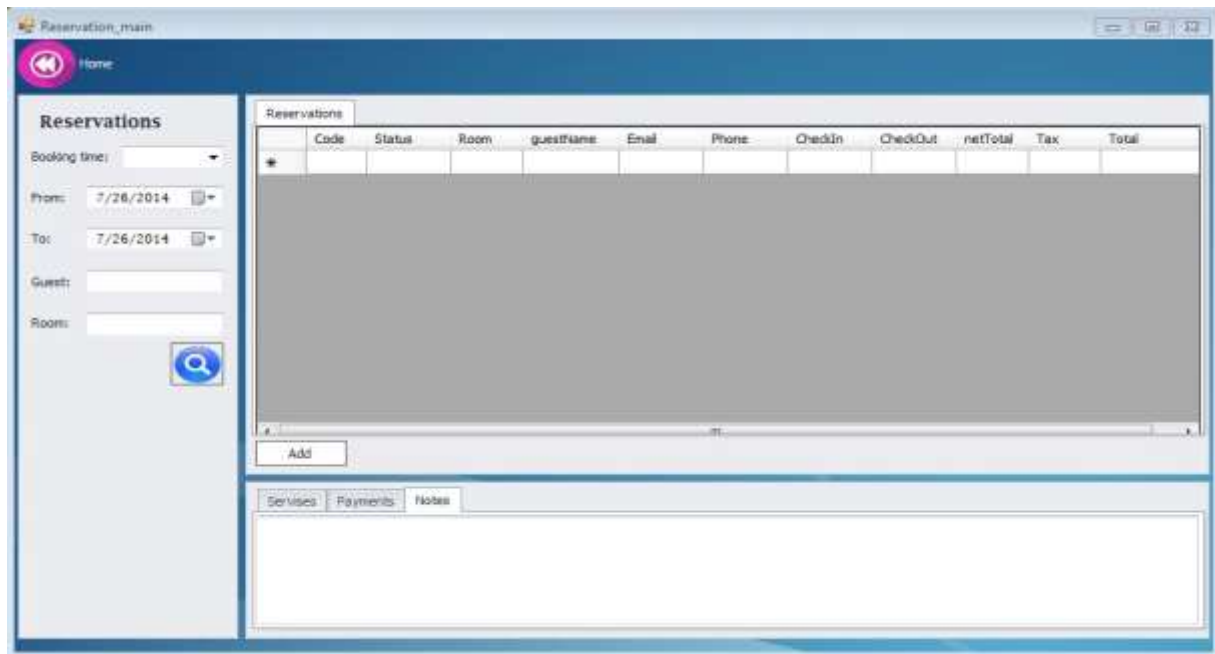
The 'Addreservation' window displays a form for making a new reservation, organized into several sections:

- Common information:** Includes fields for Code #, Status # (with a dropdown), Source (with a dropdown), Book time (set to 7/23/2014 12:00 AM), User, and Guarantee (with a dropdown).
- Room information:** Includes fields for Check In (set to 7/23/2014), Check Out (set to 7/23/2014), Adult No, Child No, Infant No, and Room #.
- Guest information:** Includes fields for Guest Name, Company, Email, Phone, and Special Requirement.
- Billing information:** Includes fields for Address, City, State, Country, and Post code.
- Payment information:** Includes a large text area for payment details and an 'Add payment' button.
- Service information:** Includes a large text area for service details and an 'Add service' button.

At the bottom, there are summary fields for Room total, Service total, Net total, Discount, Tax, Tax total, Total, Paid, and Balance, along with 'Ok' and 'Cancel' buttons.

Hotel Management System

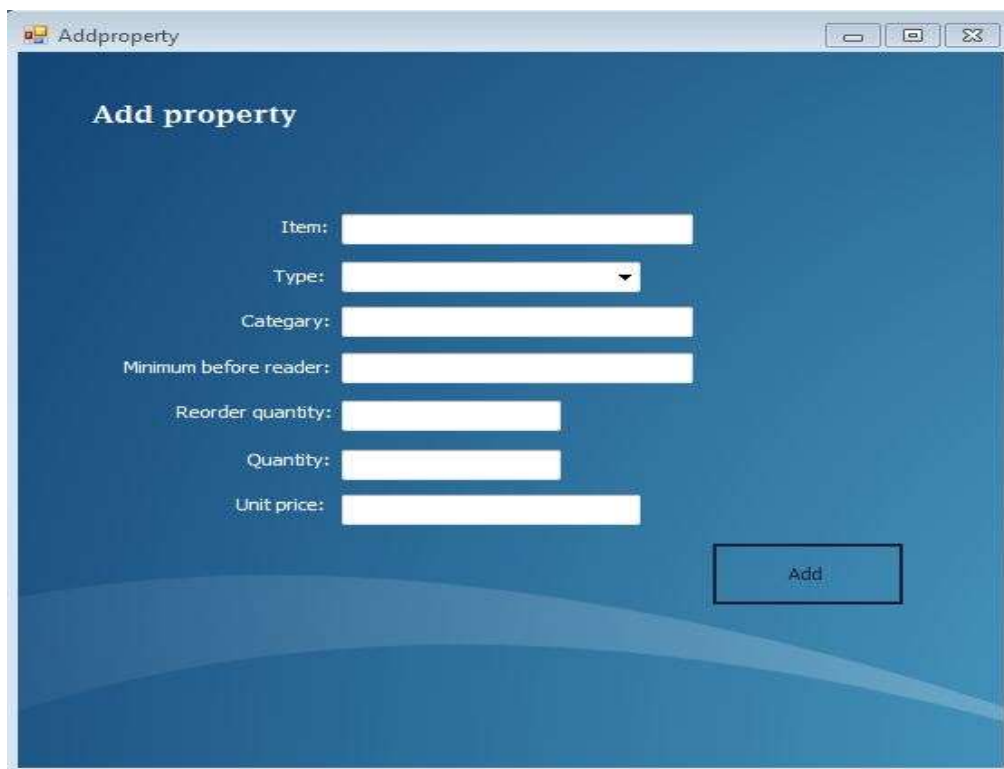
View reservations



The screenshot shows a web application window titled "Reservation_main". On the left is a sidebar with a "Home" button and a "Reservations" section. The "Reservations" section contains filters for "Booking time:", "From:" (7/26/2014), "To:" (7/26/2014), "Guest:", and "Rooms:", along with a search icon. The main area displays a table with the following columns: Code, Status, Room, guestName, Email, Phone, CheckIn, CheckOut, netTotal, Tax, and Total. The table is currently empty. Below the table is an "Add" button. At the bottom, there are tabs for "Services", "Payments", and "Notes", with a text area below them.

Code	Status	Room	guestName	Email	Phone	CheckIn	CheckOut	netTotal	Tax	Total
------	--------	------	-----------	-------	-------	---------	----------	----------	-----	-------

Adding new property to the system



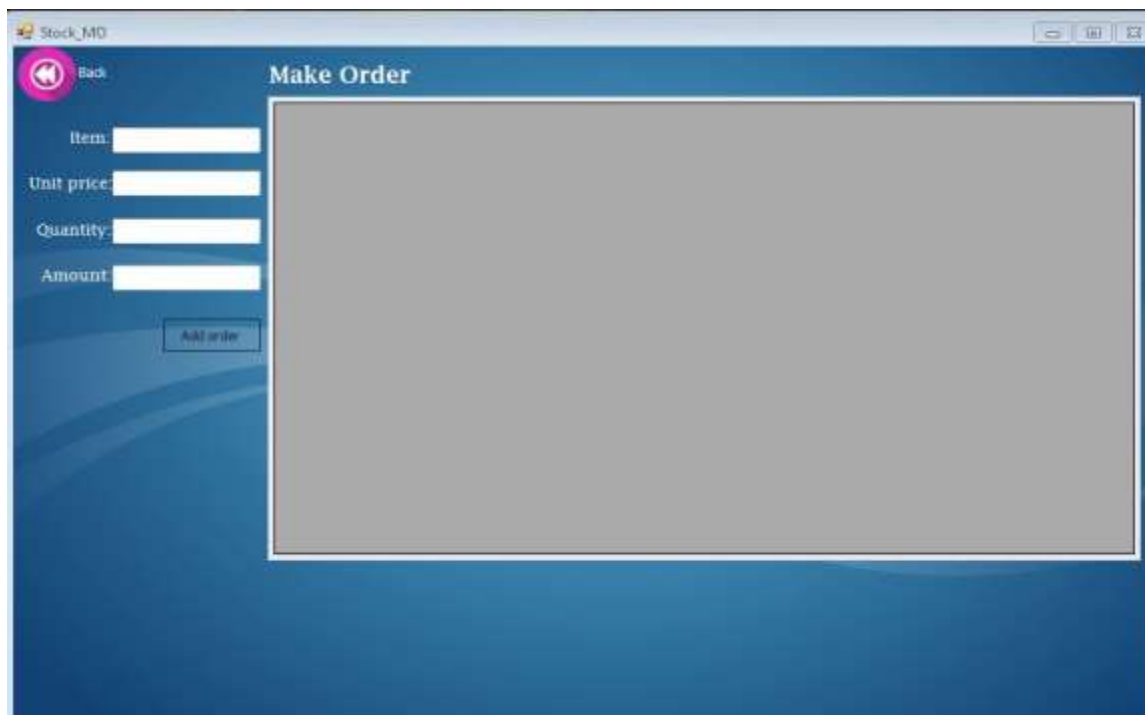
The screenshot shows a web application window titled "Addproperty". The main heading is "Add property". Below it is a form with the following fields: "Item:" (text input), "Type:" (dropdown menu), "Category:" (text input), "Minimum before reader:" (text input), "Reorder quantity:" (text input), "Quantity:" (text input), and "Unit price:" (text input). An "Add" button is located at the bottom right of the form.

Hotel Management System

Stock management



Make a new order



Hotel Management System

Staff management

The screenshot displays a web application window titled "Staff_main". It features a navigation bar with "Home" and three tabs: "Staff details", "Staff payment Report", and "Staff sale Report". The "Staff details" tab is active.

On the left, there are two search options: "Search by Name" and "Search by ID". Each has a text input field and a search button (magnifying glass icon).

The main area contains a "Data" table with the following columns: Name, EMPID, Phone, Email, Sex, Occupation, and Department. The table is currently empty, showing only a header row and a single row with an asterisk in the first column.

Below the table are "Add" and "Edit" buttons.

At the bottom, there is a "Staff details" form with fields for ID, Name, Gender, and Type. To the right of these fields is an "Availability" section with checkboxes for each day of the week: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday.

Adding a new staff member

The screenshot shows a window titled "Add_staff" with a blue background. It contains the following form elements:

- ID:** A text input field.
- Name:** A text input field.
- Address:** A large text input area.
- City:** A text input field.
- Country:** A text input field.
- Gender:** A dropdown menu.
- Surname:** A text input field.
- Phone:** A text input field.
- Mail:** A text input field.
- Staff type:** A group box containing two radio buttons:
 - ☐ Administrator-all section rights
 - ☐ User-No rights for Administration tab
- Works on:** A group box containing seven checkboxes for the days of the week:
 - ☐ Monday
 - ☐ Tuesday
 - ☐ Wednesday
 - ☐ Thursday
 - ☐ Friday
 - ☐ Saturday
 - ☐ Sunday

3.3.2 Hardware Interfaces

Reservation alerts will be sent to the one of the member of hotel staff as an e-mail notification. So there is a need of broadband internet connection. Client should be able to keep a stable internet connection.

A laser printer will be needed when printing bills and several reports

3.3.2 Software Interfaces

The computer this software is going to be installed on needs to have Windows Operating System equal or above, Windows 7. On that Windows platform .Net 4.0 will be installed and that will be the platform the particular software will be run. There will be an ADO.NET data transmission with the Microsoft SQL Server Management Studio Express 2010 R2 edition that will be installed in the same computer.

3.3.3 Database Interface

Guest

Hotel Management System

Results		Messages												
	membercode	name	gender	email	city	state	country	postalcode	License_plate	Driver_License	NIC	phone1	phone2	address
1	1234	charitha	Male	dgcharitha@yahoo.com	matara	matara		8100	4546456	544564	922864721v	716460345	716460340	matara
2	3333	suresh	Male	sursh@gmail.com	kandy	kandy		32455	4567	5454	901237872v	712343573	712343573	kandy
3	4444	amith	Male	amith@gmail.com	kadduwa	kadduwa	Nepal	81000	1267	9678	903452345v	714536783	714536783	kadduwa

Guest Phone

Results		Messages	
	memcode	phone	
1	1111	711122345	

Room

Results		Messages				
	roomno	name	buildingno	floorno	status	roomtype
1	1	r1	1	2	available	platinum
2	2	r2	2	2	available	platinum
3	3	r3	1	2	available	Bronze
4	4	r4	2	3	pending	Family
5	5	r5	1	2	available	Zilver

Room Type

Results		Messages						
	name	descriptions	status	standard_price	single_price	adults	children	extraadult
1	Bronze	simple life	pending	6000.00	4000.00	2	0	0
2	Family	feels like home	available	6000.00	6000.00	2	2	2
3	Gold	unique fascilities	available	10000.00	8000.00	2	0	1
4	platinum	most comfortable	available	12000.00	10000.00	2	2	1
5	Zilver	keep calm	pending	8000.00	6000.00	2	1	1

Reserve

Hotel Management System

	membercode	roomno	reservationcode	checkin	checkout	no_of_nights	children	adults	status	performed_by
1	NULL	1	22	2014-08-01	2014-08-09	2	2	2	new	1234
2	4444	2	33	2014-08-05	2014-08-12	2	3	6	new	1234
3	3333	3	44	2014-09-01	2014-09-12	1	1	2	new	12
4	1234	4	55	2014-09-22	2014-09-28	3	5	2	new	2222

Services

	code	name	rate	type	catid
1	201	coca-cola	3	softdrink	101
2	203	sandwich	2	supper	103
3	204	lemon gin	3	drink	102
4	205	carlsberg	5	softdrink	102
5	206	fruitjuice	5	softdrink	101

Service Category

	catid	name	status
1	101	bevarages	available
2	102	liquor	available
3	103	supper	available

Bill

	billing_no	date	quantity	price	taxes	units	service	empid	membercode	reservationcode
1	1	2014-09-12	2	1200.00	120.00	2	bevarages	12	1234	22
2	2	2014-09-15	2	600.00	20.00	2	supper	1234	4444	33
3	3	2014-06-22	4	1600.00	140.00	2	liquor	2222	3333	44
4	4	2014-12-04	1	500.00	10.00	2	supper	12	4444	55
5	5	2014-03-05	6	3000.00	400.00	3	liquor	345	1234	22

User

Hotel Management System

	empid	username	password	type
1	12	peris	asderw	labour
2	1234	siripala	qwerty	receptionist
3	2222	anton	asdff	receptionist
4	345	amith	dsdasdff	roomboy

Staff

	empid	occupation
1	12	labour
2	1234	receptionist
3	2222	receptionist
4	345	roomboy

Employee

	empid	name	department	email	sex	salary
1	12	peris	bevarage	peris@mail	male	12000.00
2	1234	siripala	cleaning	siripala@gmail.com	male	20000.00
3	2222	anton	servising	anton@gmail.com	male	3000.00
4	345	Amith	managing	Amith@gmail.com	male	45000.00
5	577795	Charitha	xxxxxxxx	Charitha@gmail.com	male	35000.00

Employee Phone

	empid	phone
1	12	716470147
2	12	723860042
3	12	787565421
4	1234	754220464
5	2222	710164463
6	345	712956579
7	577795	773456374

Event

Hotel Management System

Results		Messages		
	code	type	date	membercode
1	1111	wedding	2014-06-08	1234
2	2222	party	2014-02-05	3333
3	3333	wedding	2014-02-02	4444
4	4444	conference	2014-12-01	1234
5	5555	party	2014-11-02	4444
6	6666	wedding	2014-09-09	4444

Properties

Results		Messages		
	itemcode	item_name	quantity	unit_price
1	item1	soap	100	50.00
2	item2	bed sheet	10	1600.00
3	item3	towel	10	500.00
4	item5	table lamp	2	800.00
5	item6	curtain	4	2200.00
6	item7	tables	1	4000.00

Reusable Properties

Results		Messages	
	itemcode	remaining_period	
1	item1	4	
2	item3	3	

Task

Hotel Management System

Results		Messages				
	taskid	status	assign_date	finished_date	reservationcode	empid
1	t1	available	2014-09-03	2014-10-02	22	12
2	t2	available	2014-04-05	2014-12-07	33	1234
3	t3	available	2014-01-03	2014-04-02	44	2222
4	t4	available	2014-04-24	2014-04-27	55	345
5	t5	pending	2014-01-23	2014-10-12	44	577795

Staffassigntoevent

Results		Messages	
	empid	code	
1	12	2222	
2	12	4444	
3	1234	1111	
4	345	1111	
5	345	3333	
6	577795	1111	
7	577795	2222	
8	577795	5555	
9	577795	6666	

Guest Request Service

Results		Messages	
	code	reservationcode	
1	201	22	
2	201	44	
3	203	33	
4	204	22	
5	205	22	
6	205	55	
7	206	22	

Room Properties

Results		Messages
	itemcode	reservationcode
1	item1	22
2	item2	22
3	item2	33
4	item5	33
5	item5	44
6	item6	44
7	item3	55
8	item7	55

Room Task

Results		Messages	
	taskid	roomno	membercode
1	t1	1	1234
2	t2	2	3333
3	t2	3	1234
4	t3	3	4444
5	t4	4	1234
6	t5	5	4444

3.3.4 Communications Interfaces

When a specific reservation reserved at the same time an e-mail notification will be sent to both relevant staff member's e-mail account and guest's account. Guest will be notified in the check-out date. To achieve that functionality, it requires having a stable internet connection. Mostly a broadband connection with the client's computer will provide the efficient service.

3.4 Performance Requirement

Performance requirements define acceptable response times for system functionality. Although the system is developed suiting for the least system performances, the performance of the system will highly depend on the performance of the hardware and software components of the installing computer. When consider about the timing relationships of the system the load time for user interface screens shall take no longer

than two seconds. It makes fast access to system functions. The log in information shall be verified within five seconds causes' efficiency of the system. Returning query results within five seconds makes search function more accurate.

3.5 Logical Database Requirements

The logical database requirements include the retention of the following data elements.

- Customer first name
- Customer last name
- Customer Code
- Customer address
- Customer phone number
- Number of occupants
- Room no
- Floor no
- Building no
- Room status
- Employee id
- Bill no
- Default room rate
- Rate description
- Guaranteed room (yes/no)
- Expected check-in date
- Actual check-in time
- Expected check-out time
- Actual check-out date
- Customer feedback
- Payment type
- Total Bill

3.6 Attributes

3.6.1 Reliability

Specify the factors required to establish the required reliability of the software system at time of delivery. Mean time between failures and mean time to recovery.

3.6.2 Availability

The system shall be available during normal hotel operating hours.

3.6.3 Security

The extent to which the Hotel Management System is safe from outside non-allowed user or attacks.

3.6.4 Maintainability

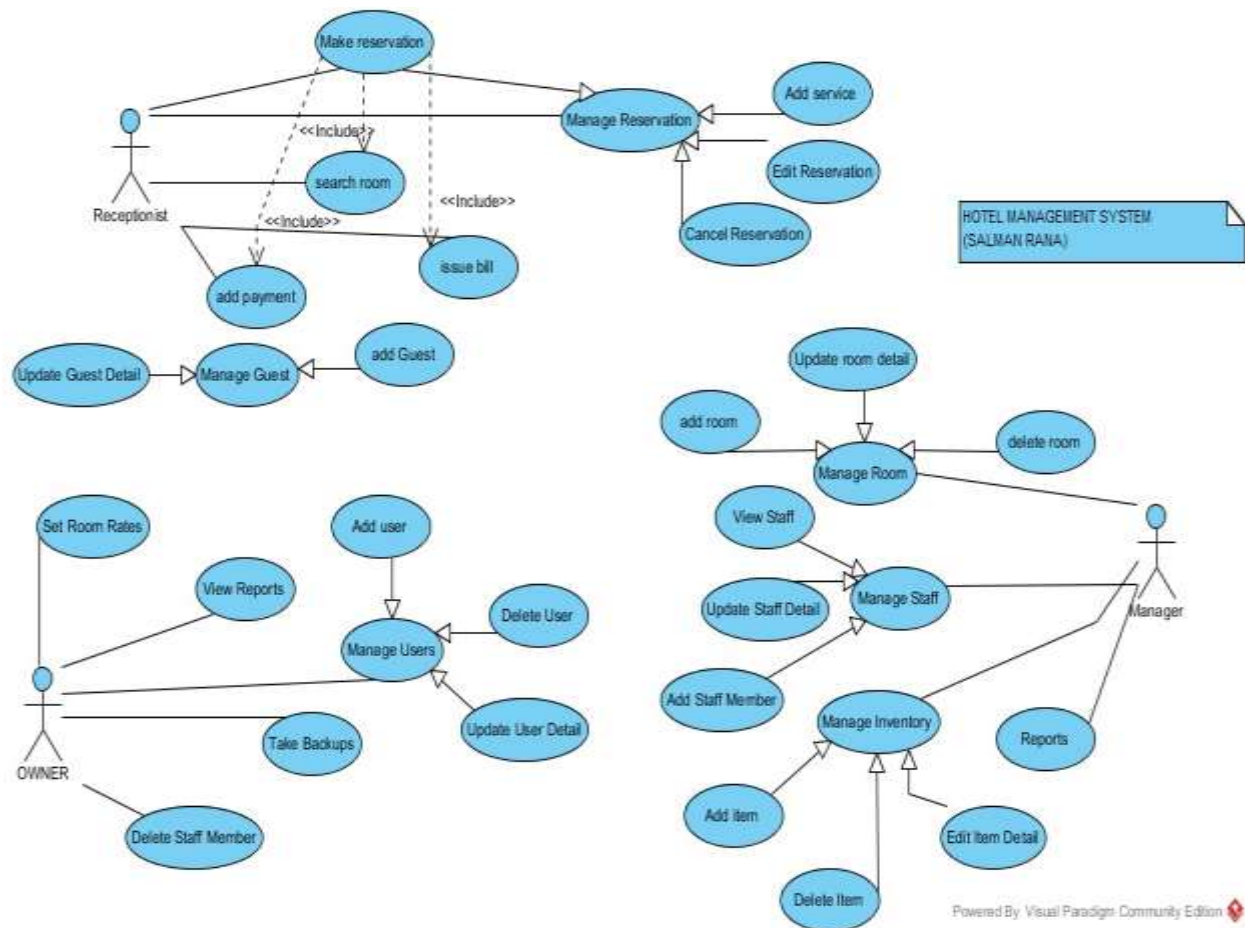
What design, coding standards must be adhered to exclusions created

3.6.5 Portability

The Hotel Management System shall run in any Microsoft Windows environment

1-Use Case Diagram

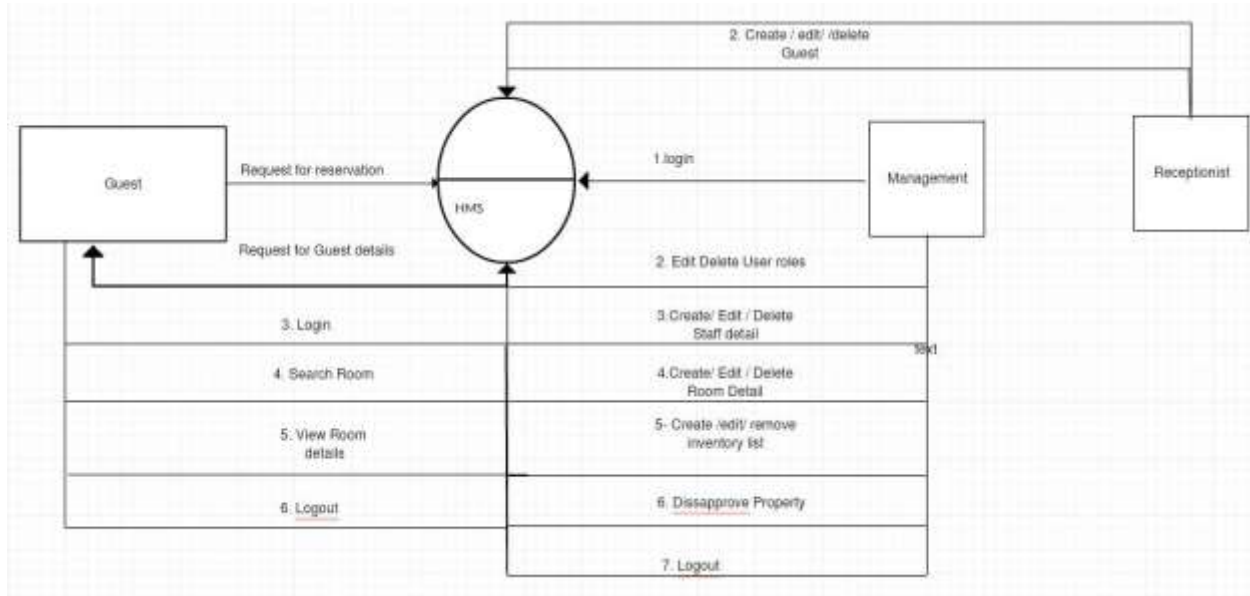
Hotel Management System



2-Data Flow Diagram

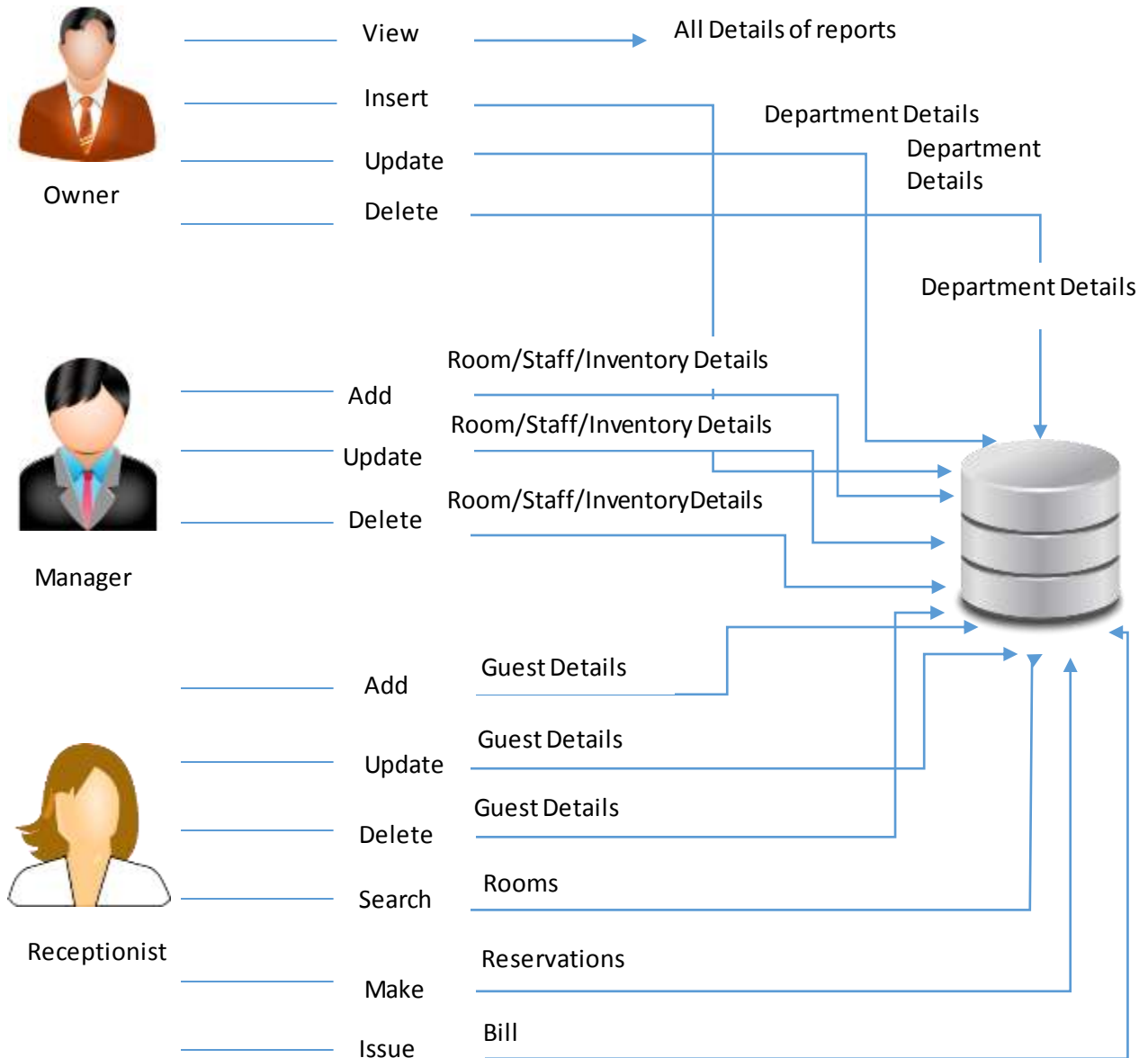
Salman Rana BCS02133279

Hotel Management System

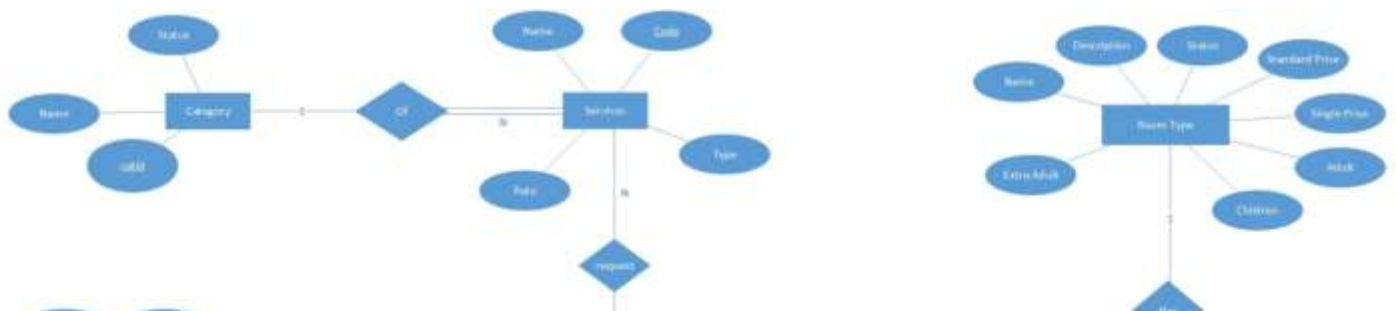


3-Architectural Diagram

Hotel Management System



4-ER Diagram



z

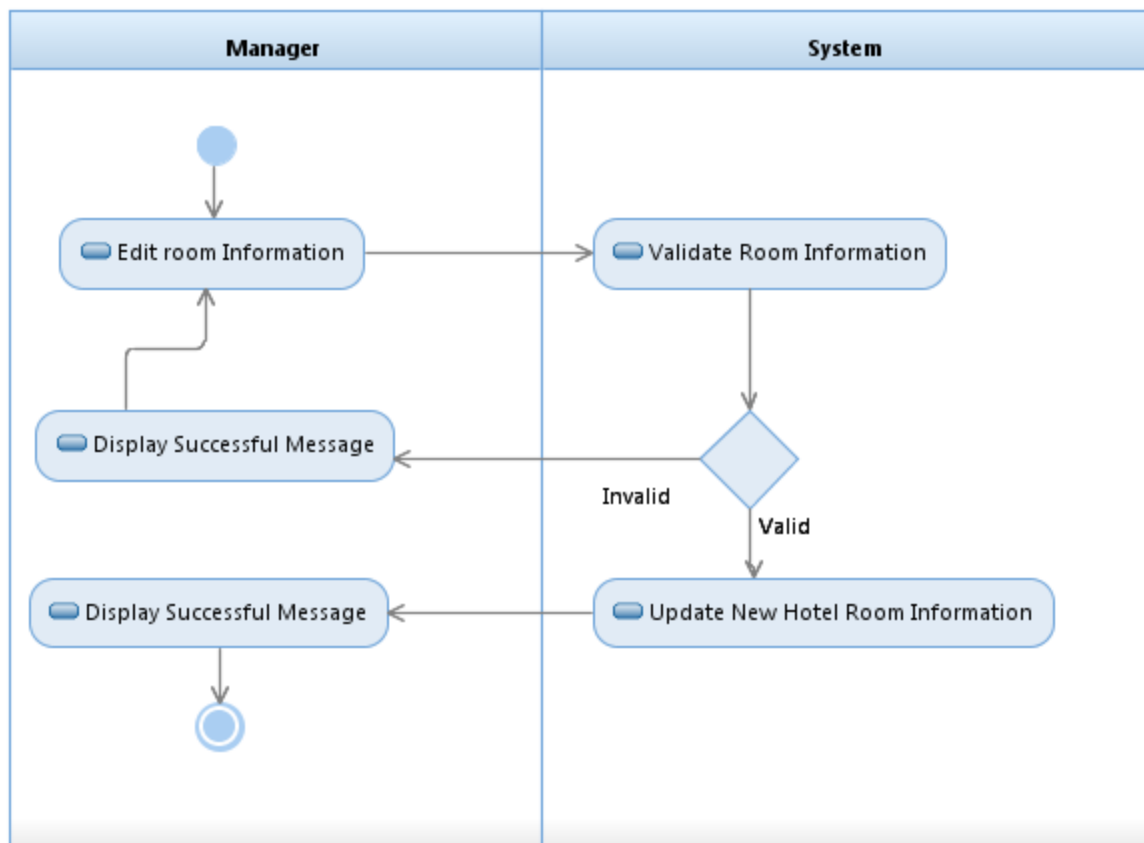
5-Activity Diagram

Add new Hotel Room

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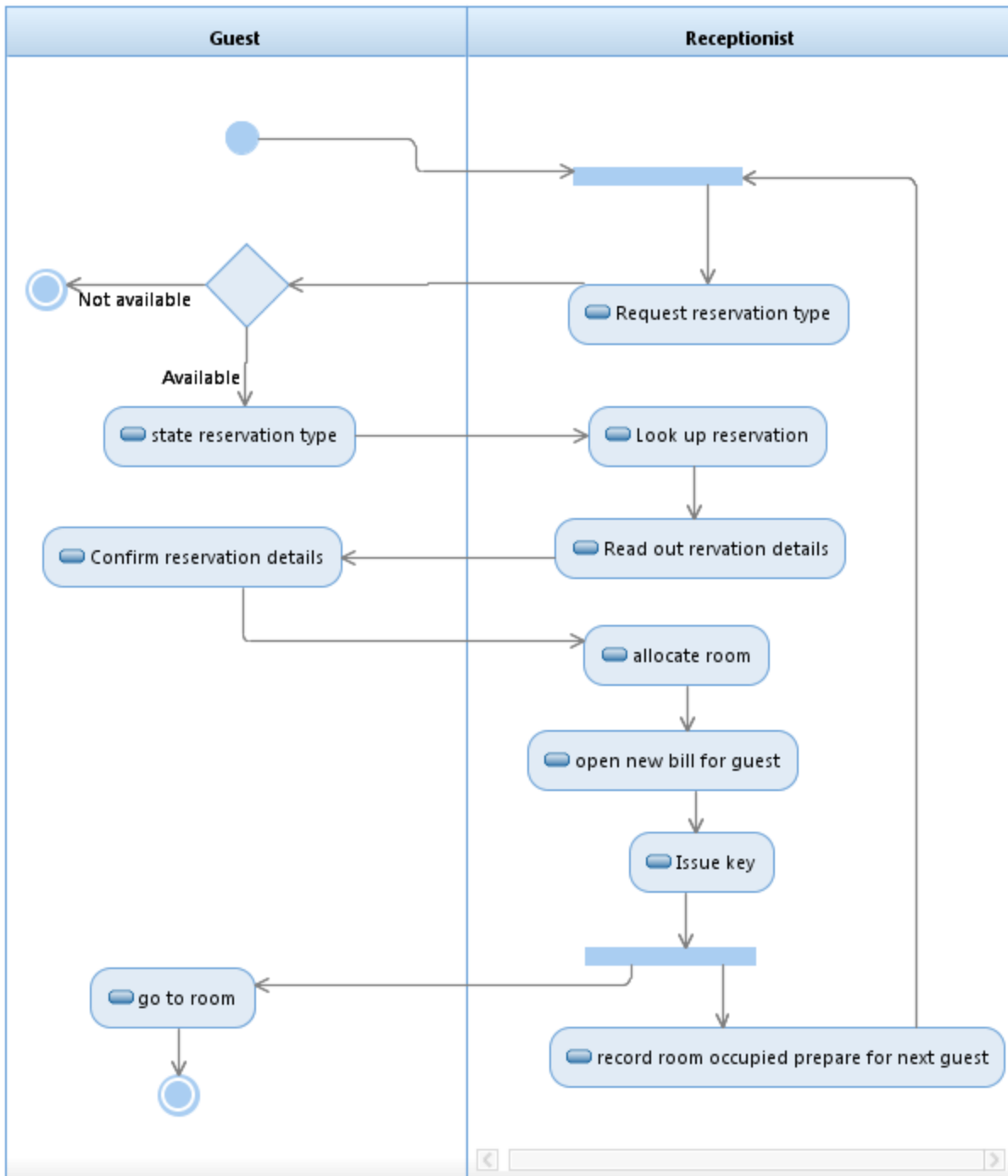
Hotel Management System

Edit Hotel Room

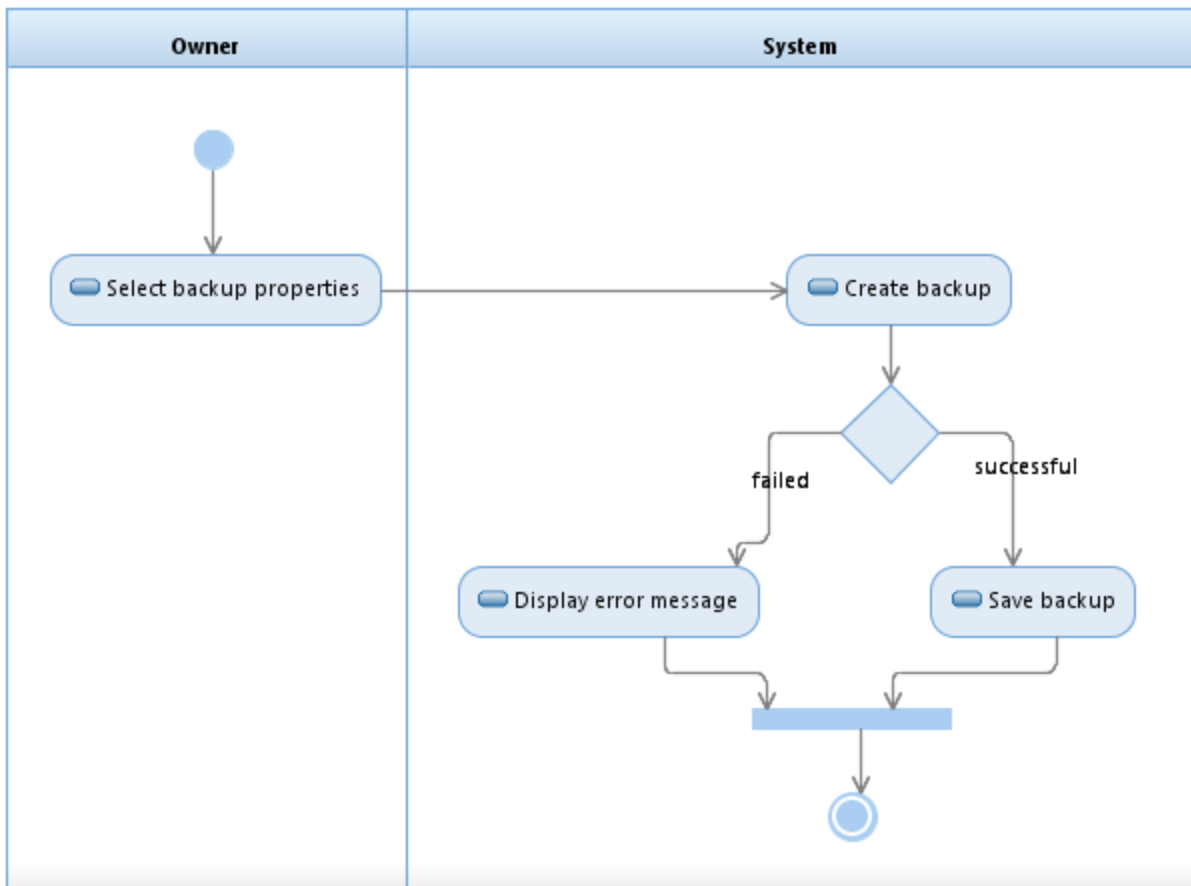


Hotel Management System

Make Reservation

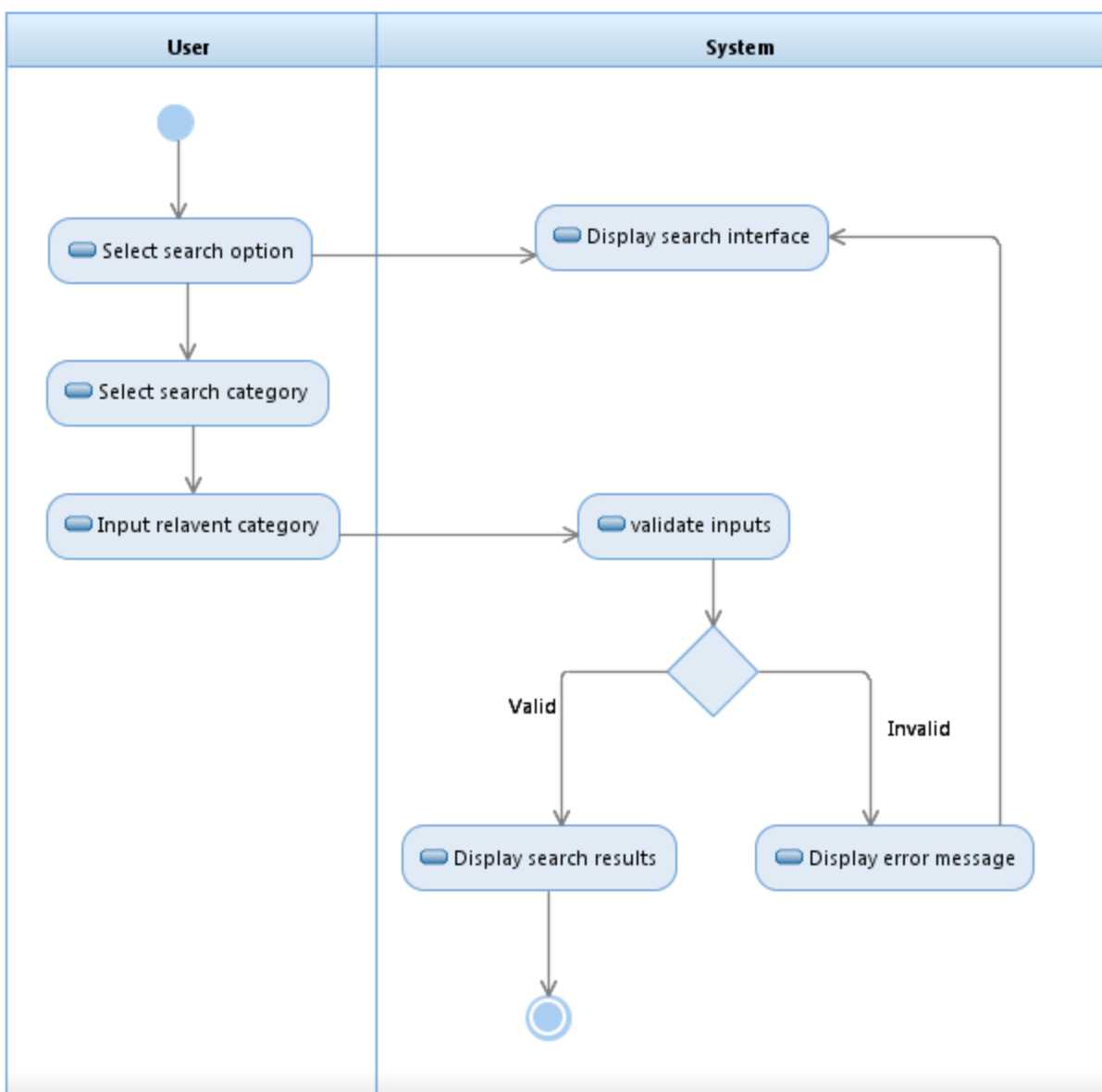


Take Backup



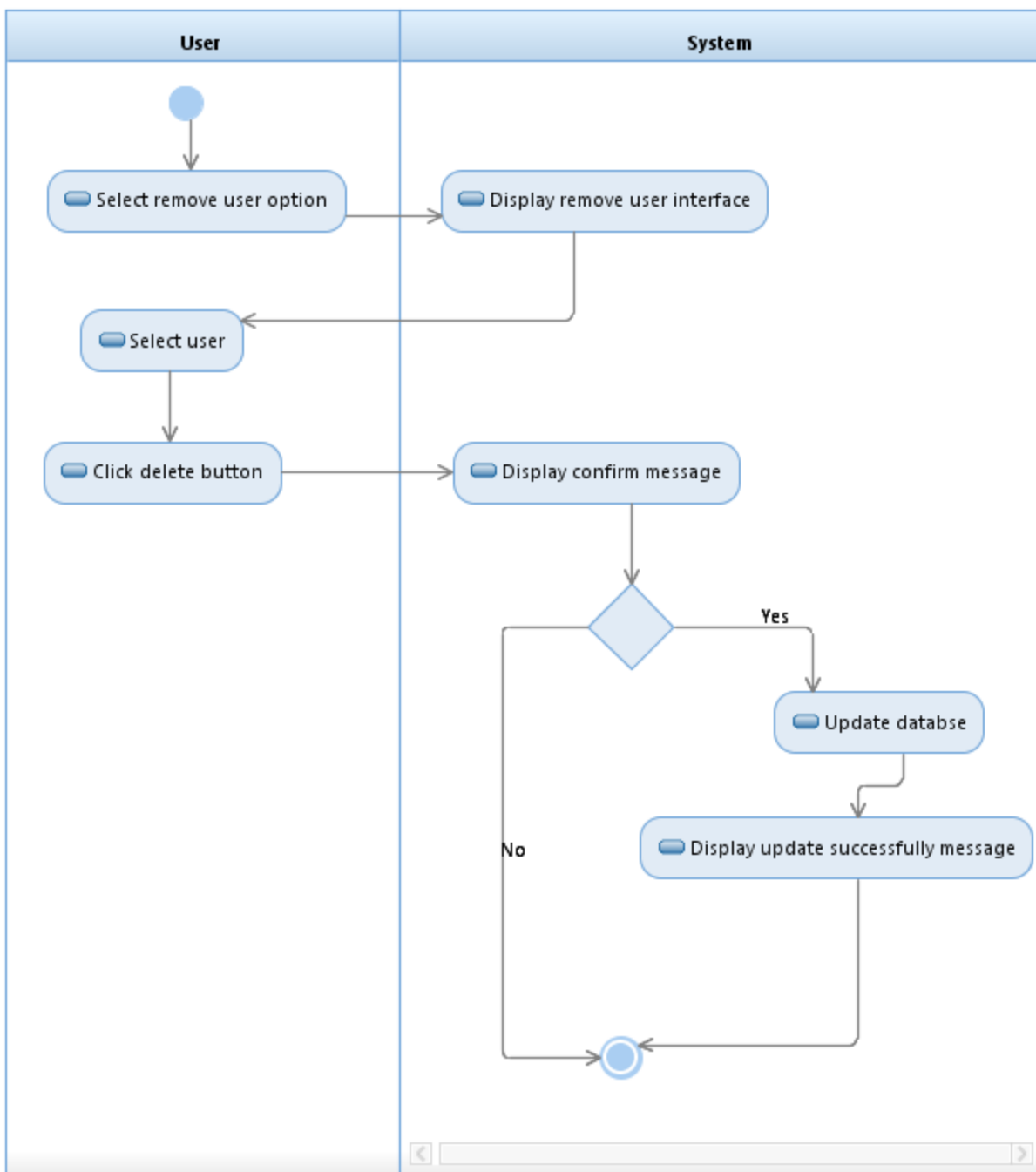
Hotel Management System

Search



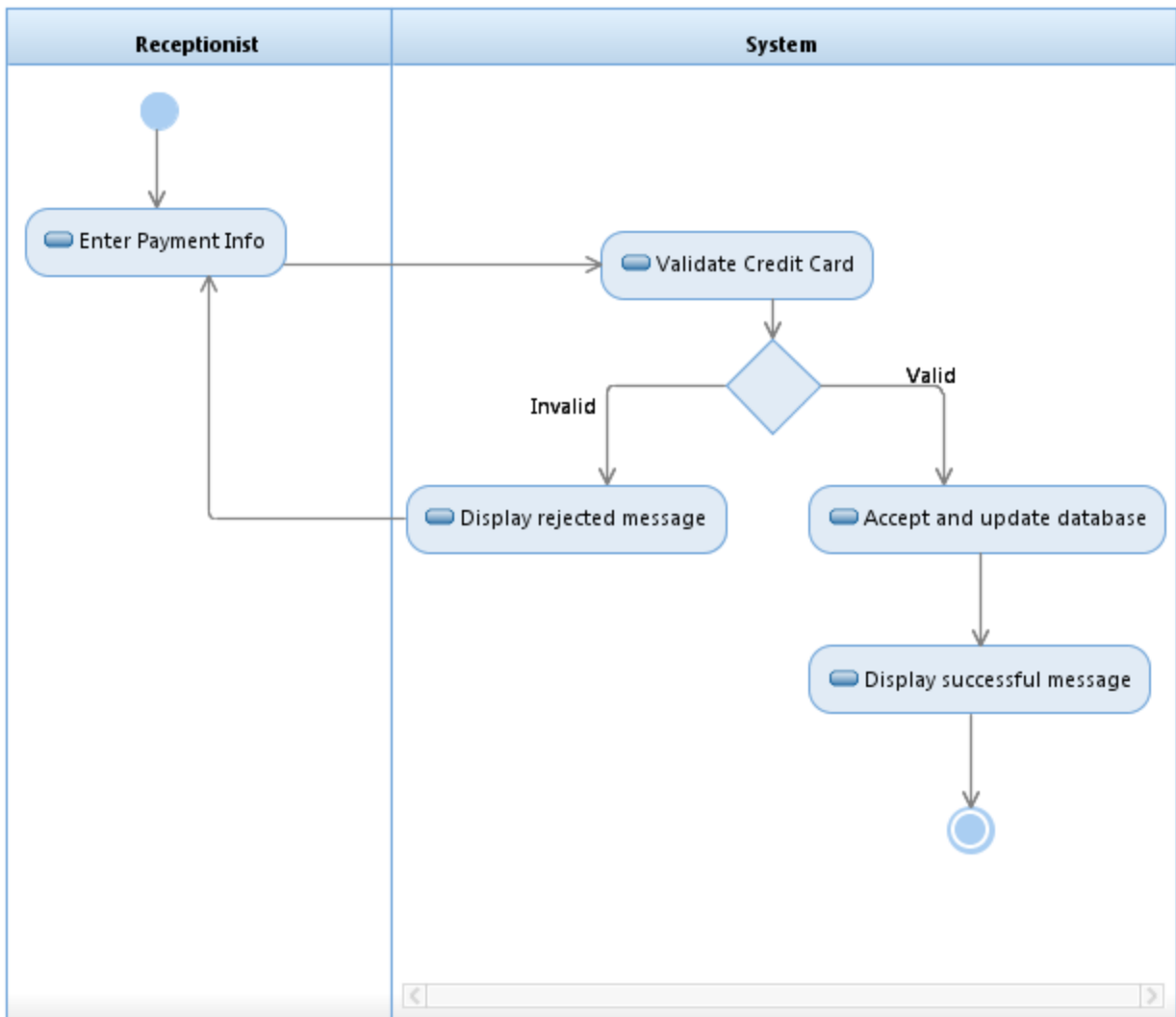
Hotel Management System

Delete a user



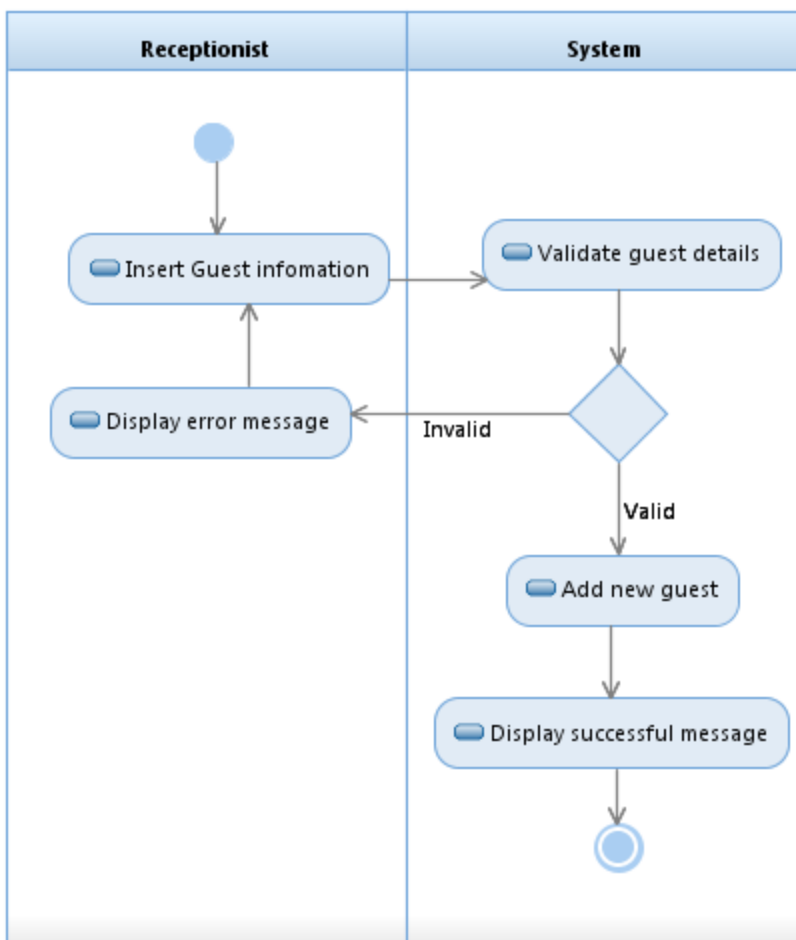
Hotel Management System

Add Payment



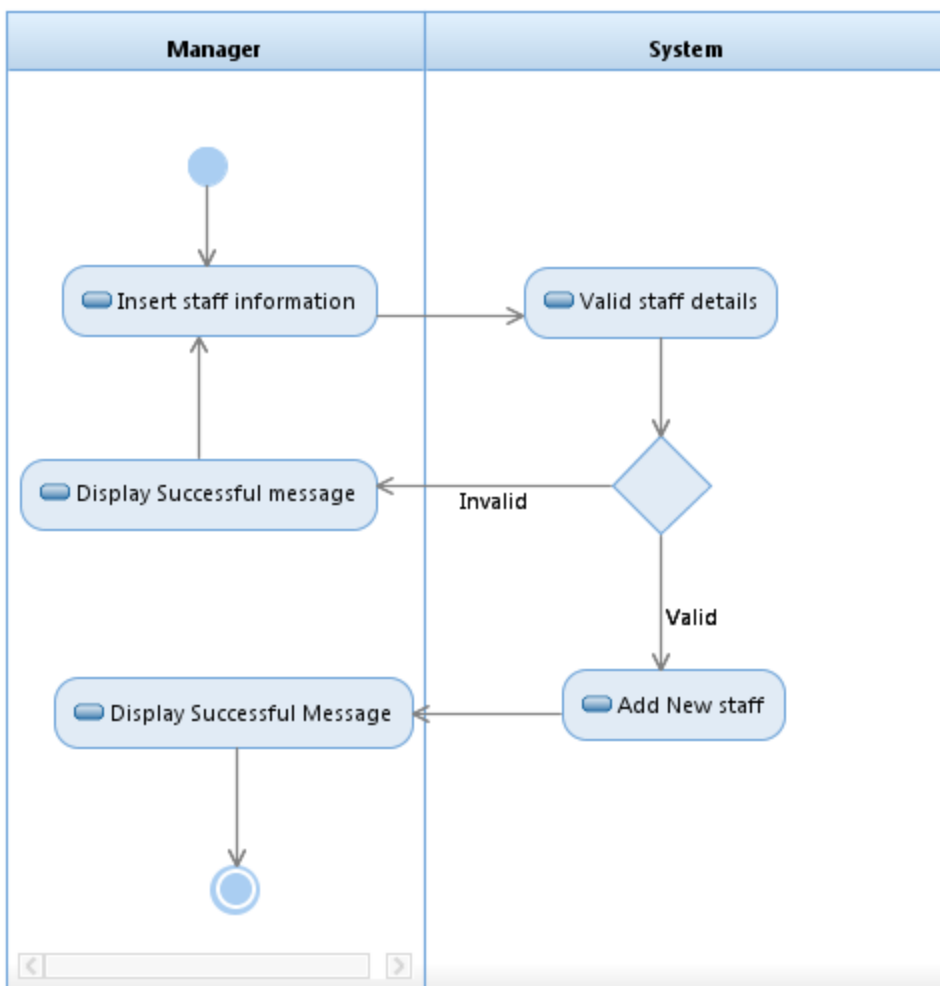
Hotel Management System

Add Guest



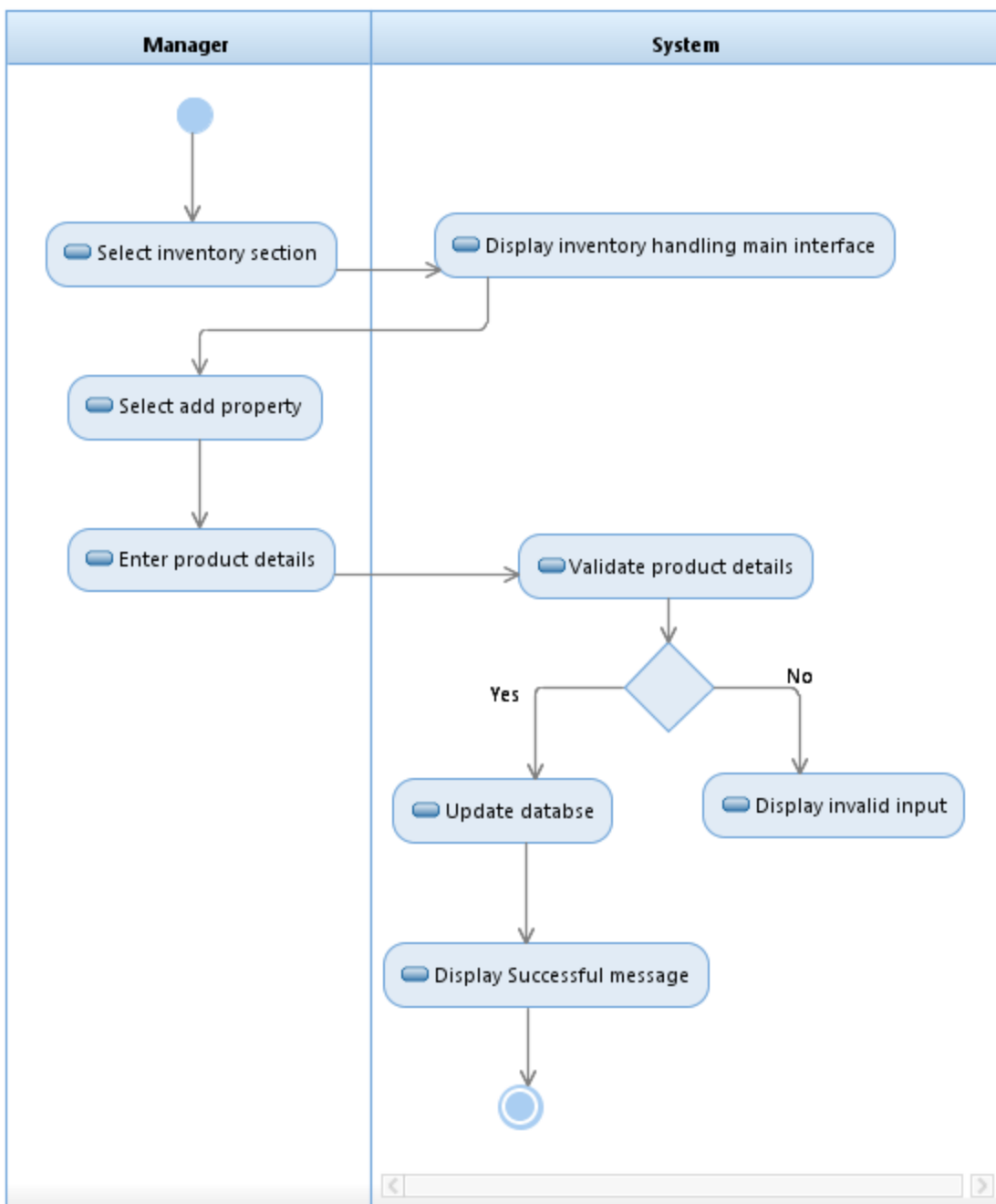
Hotel Management System

Add Staff



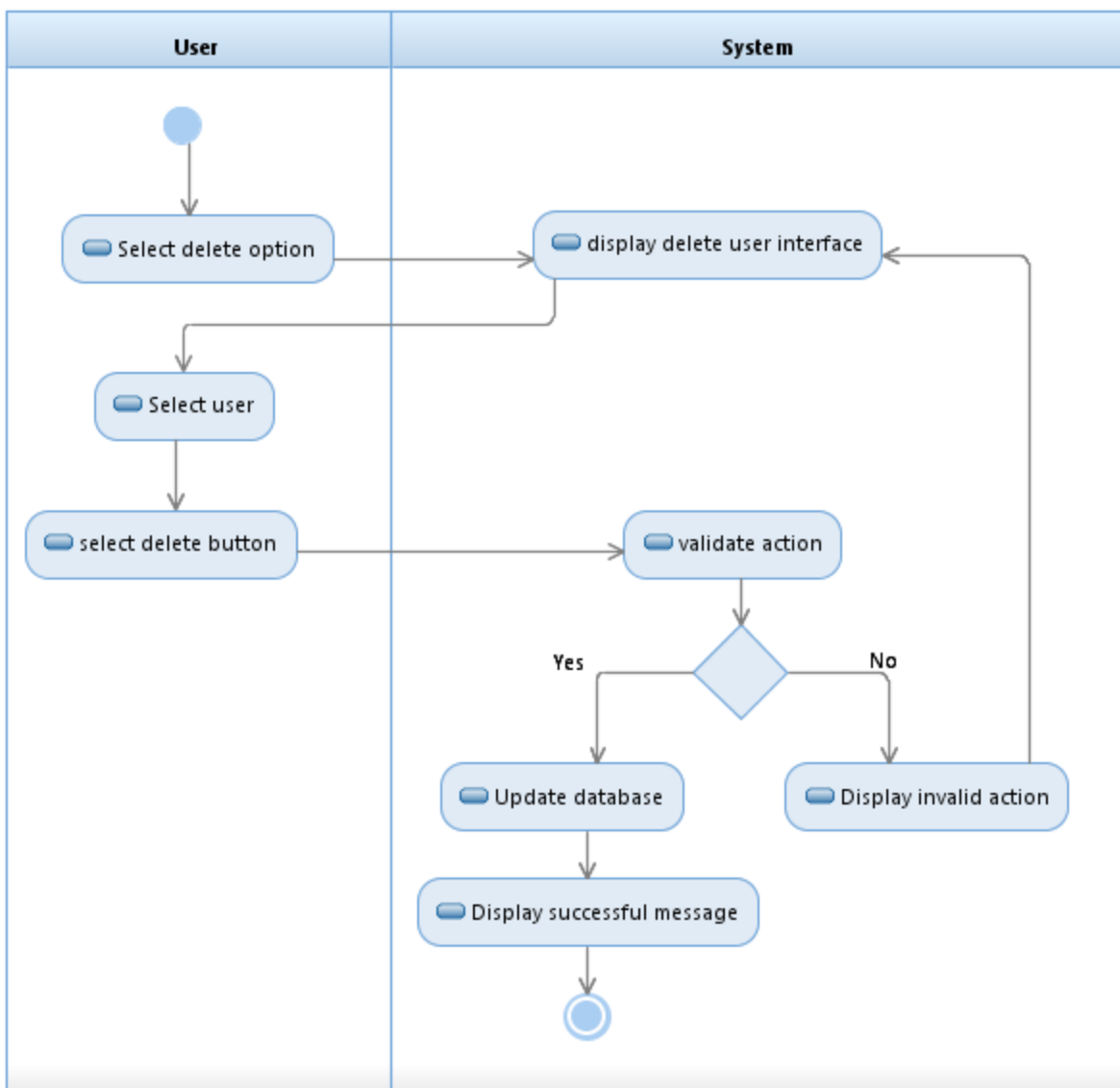
Hotel Management System

Add property

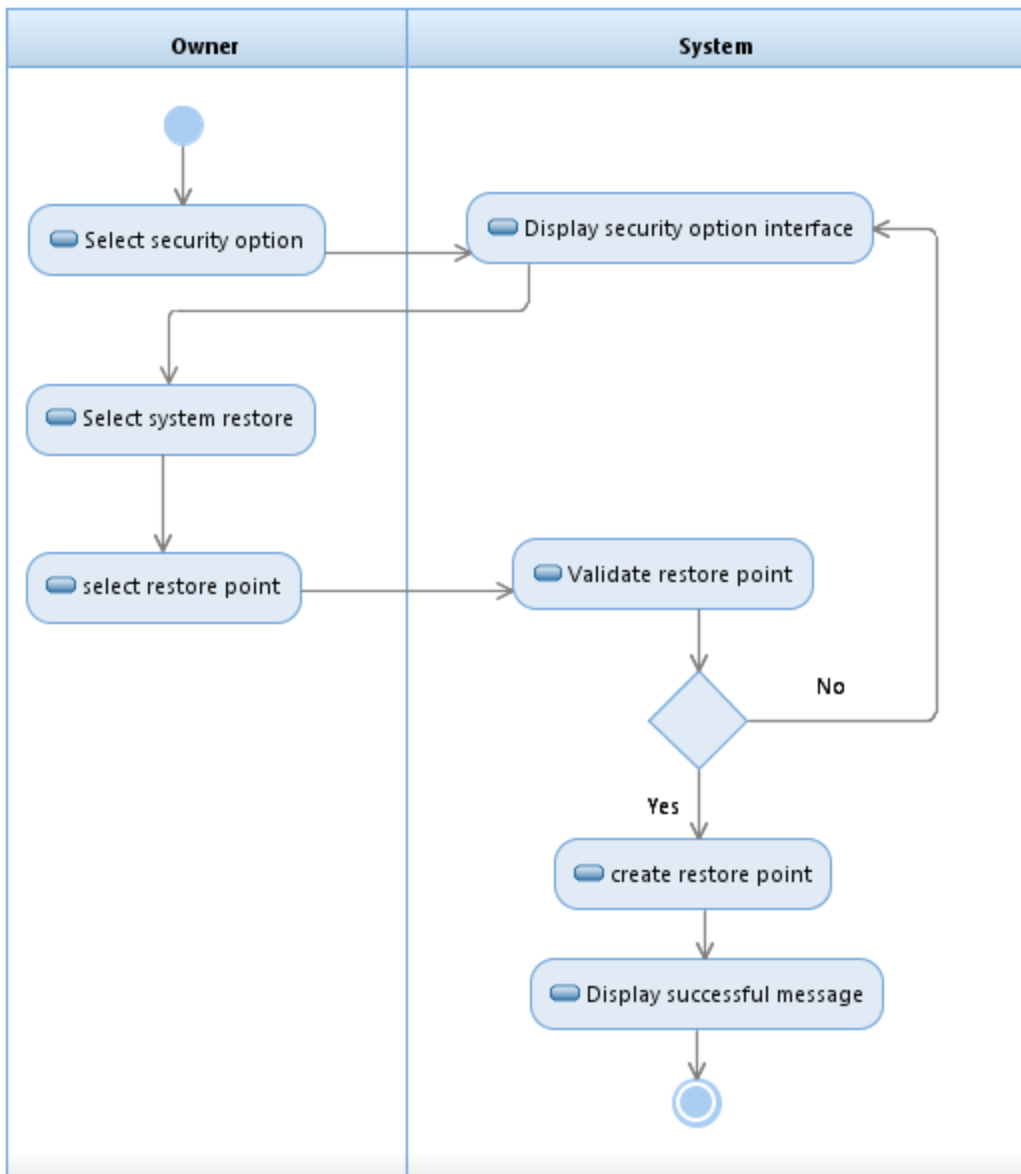


Hotel Management System

Delete user

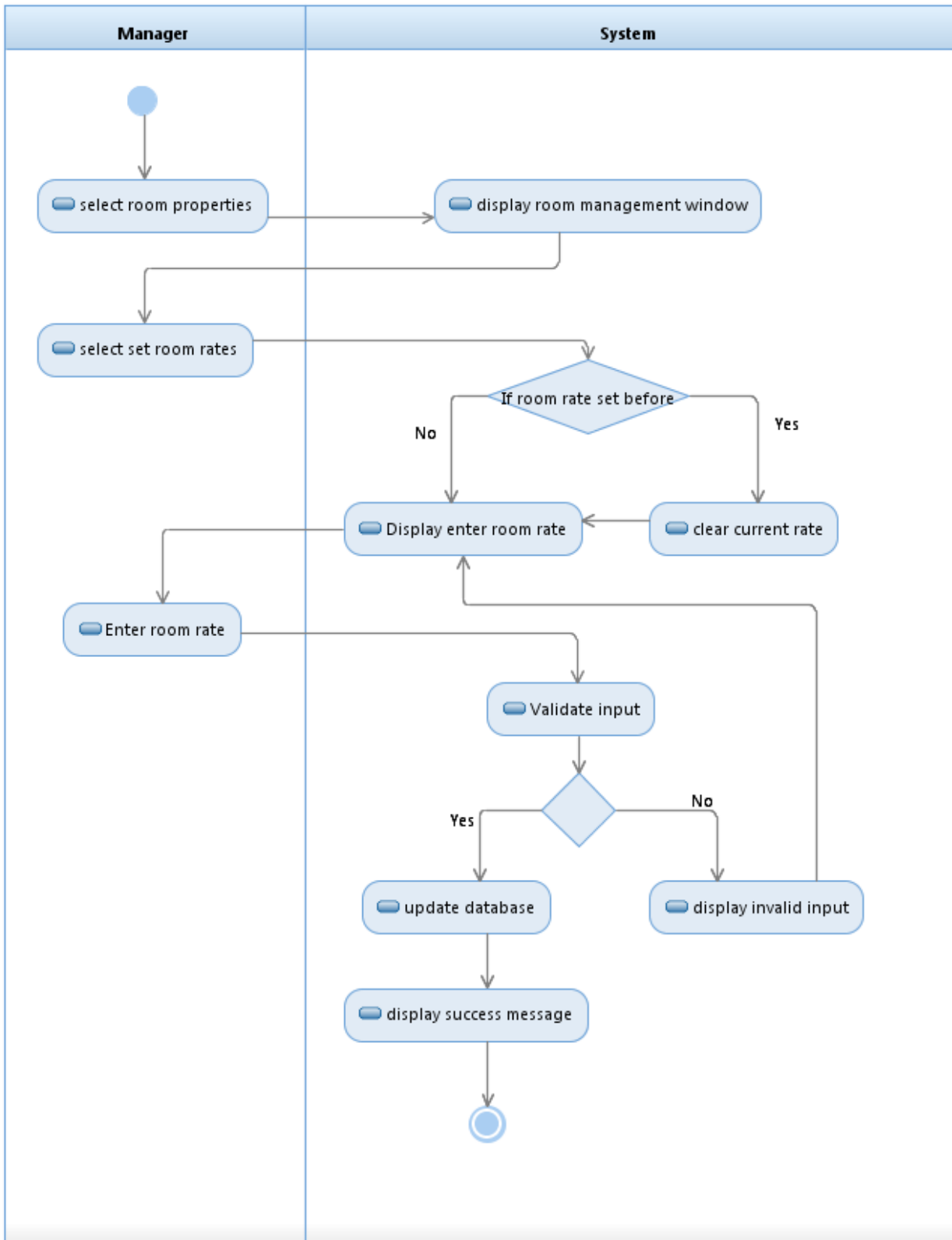


Create system restore point

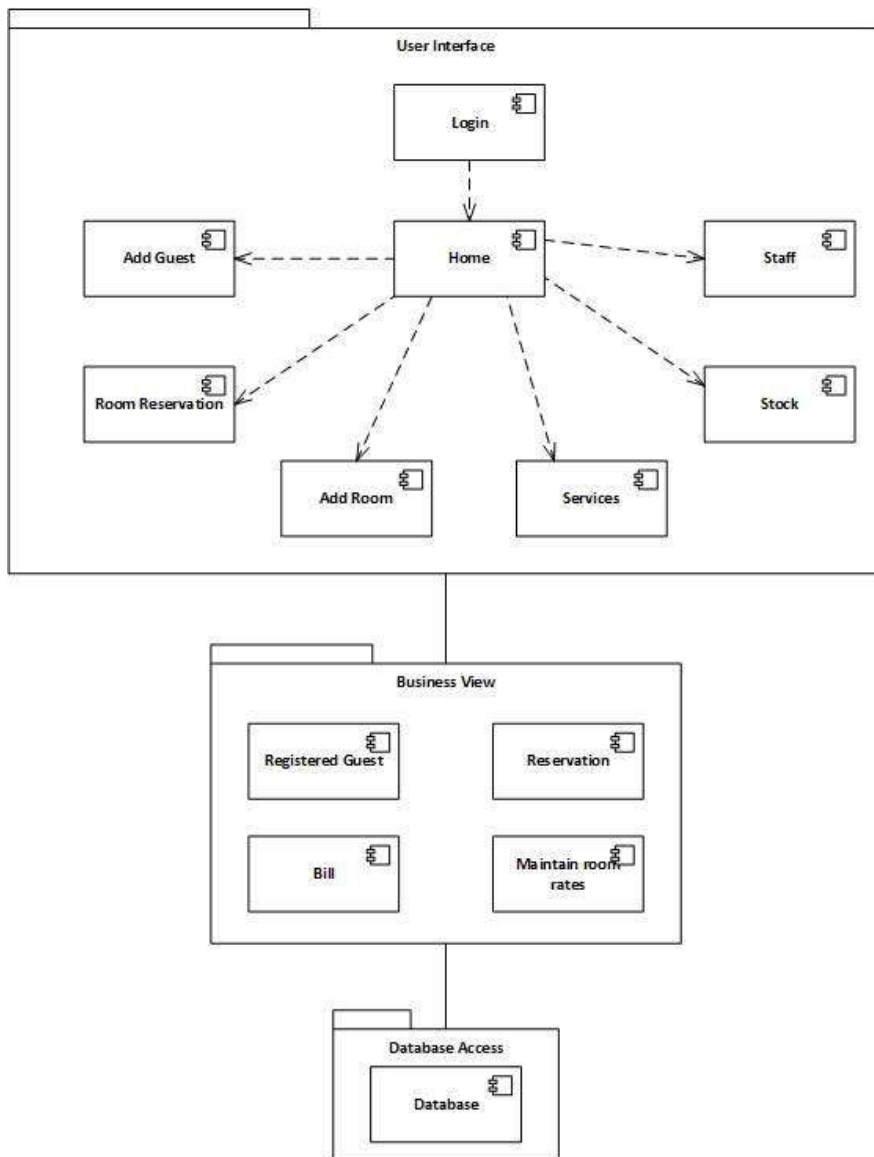


Hotel Management System

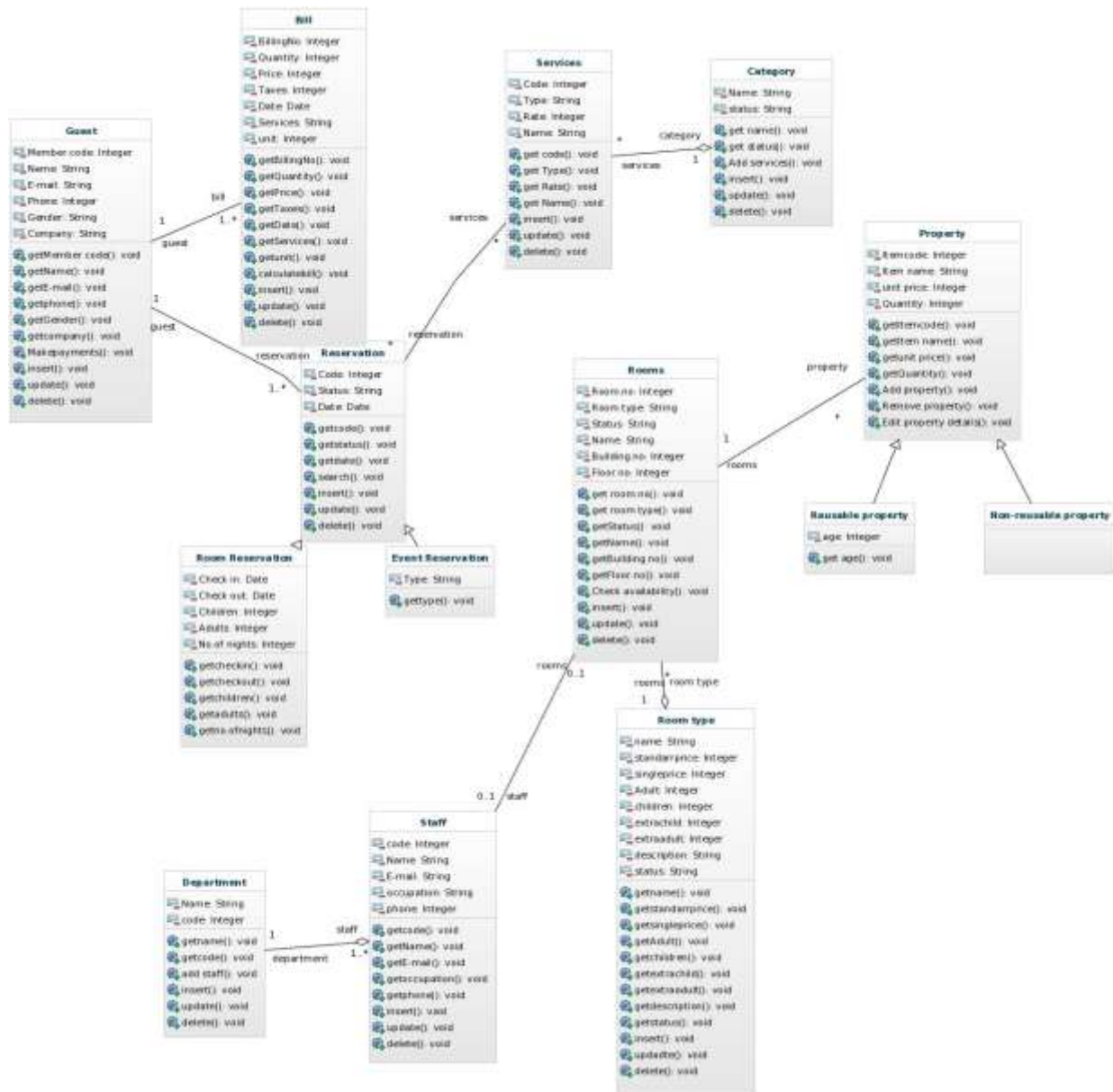
Set room rate



6-Component Diagram

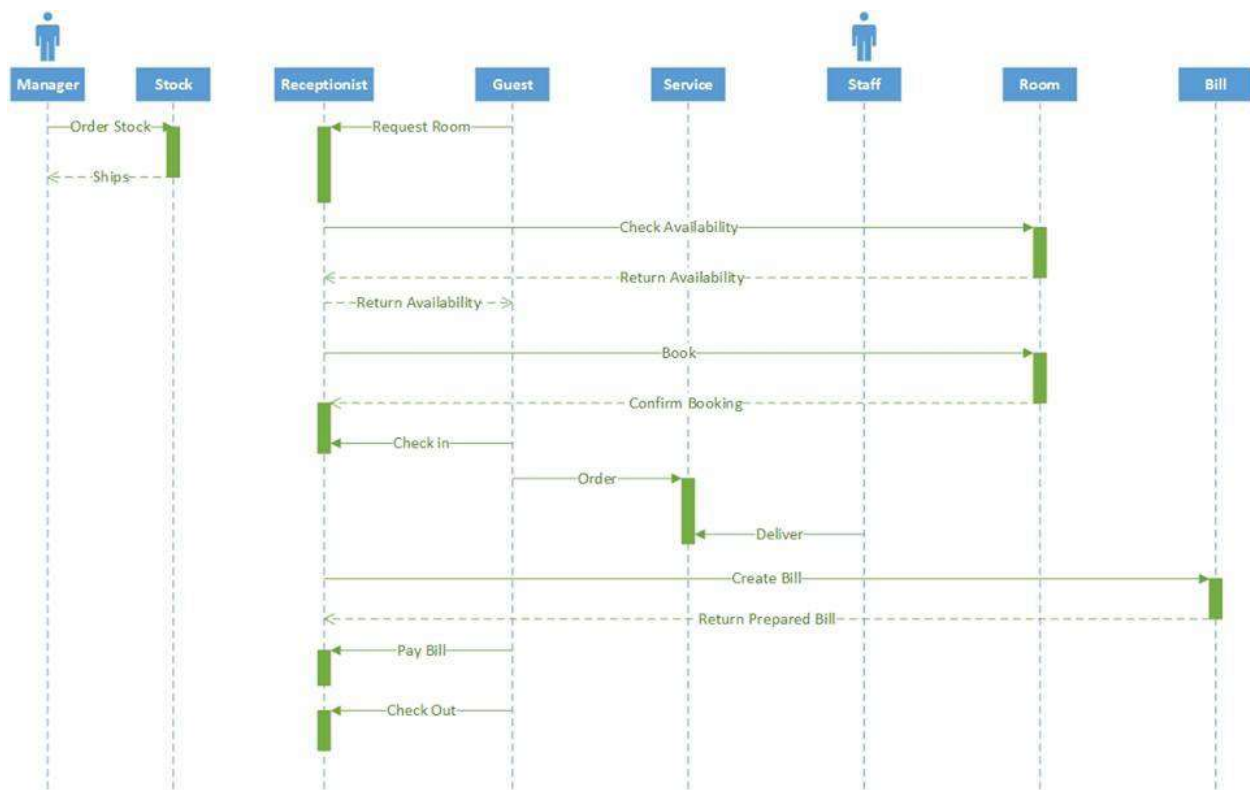


7-Class Diagram

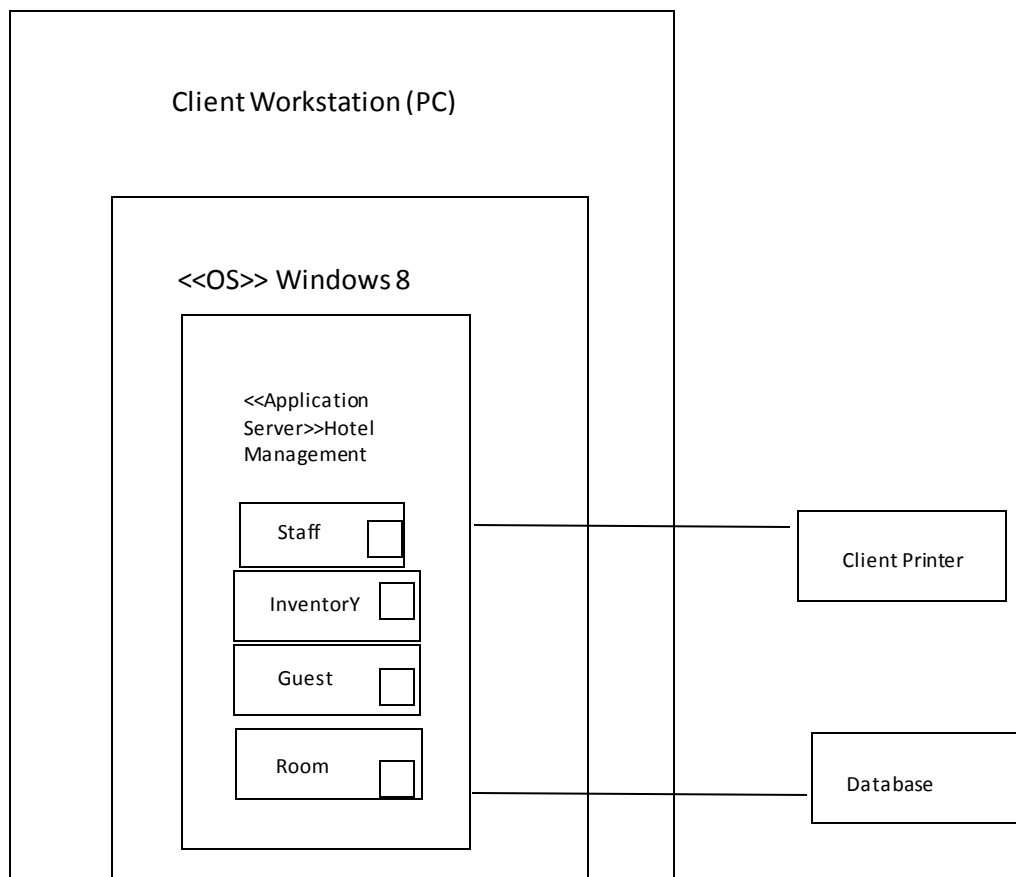


Hotel Management System

8-Sequence Diagram

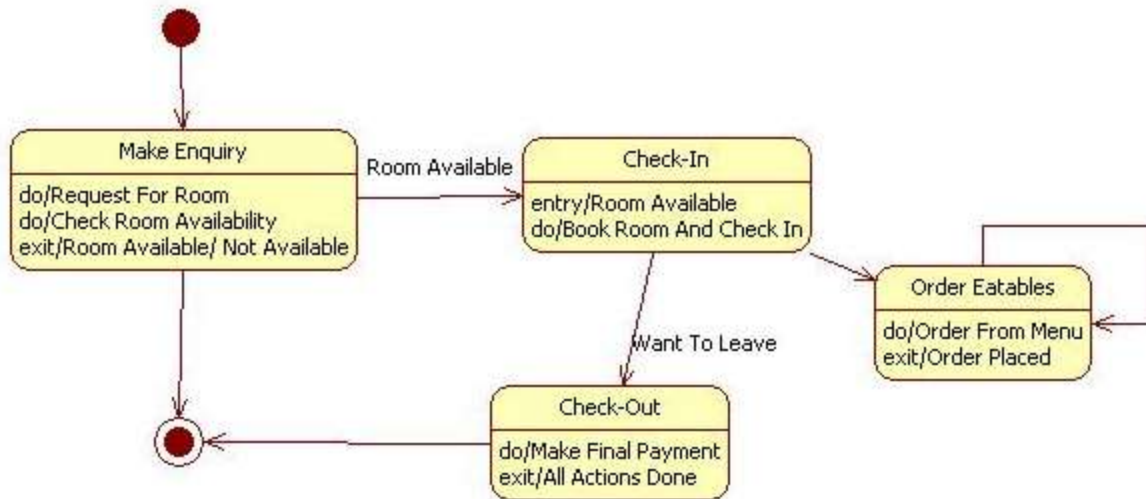


9-Deployment Diagram

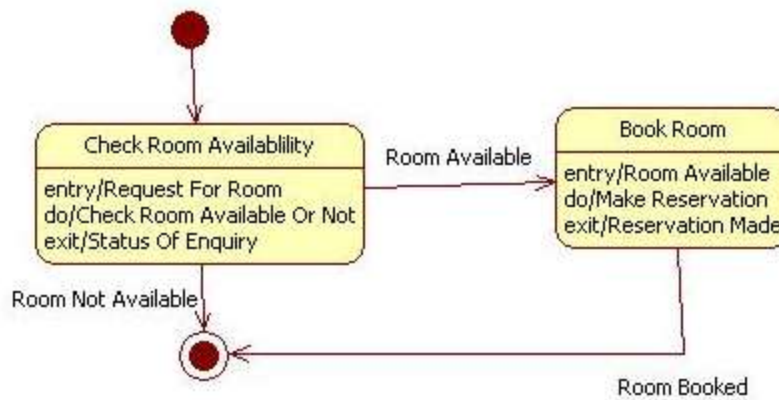


10-STATE DIAGRAM

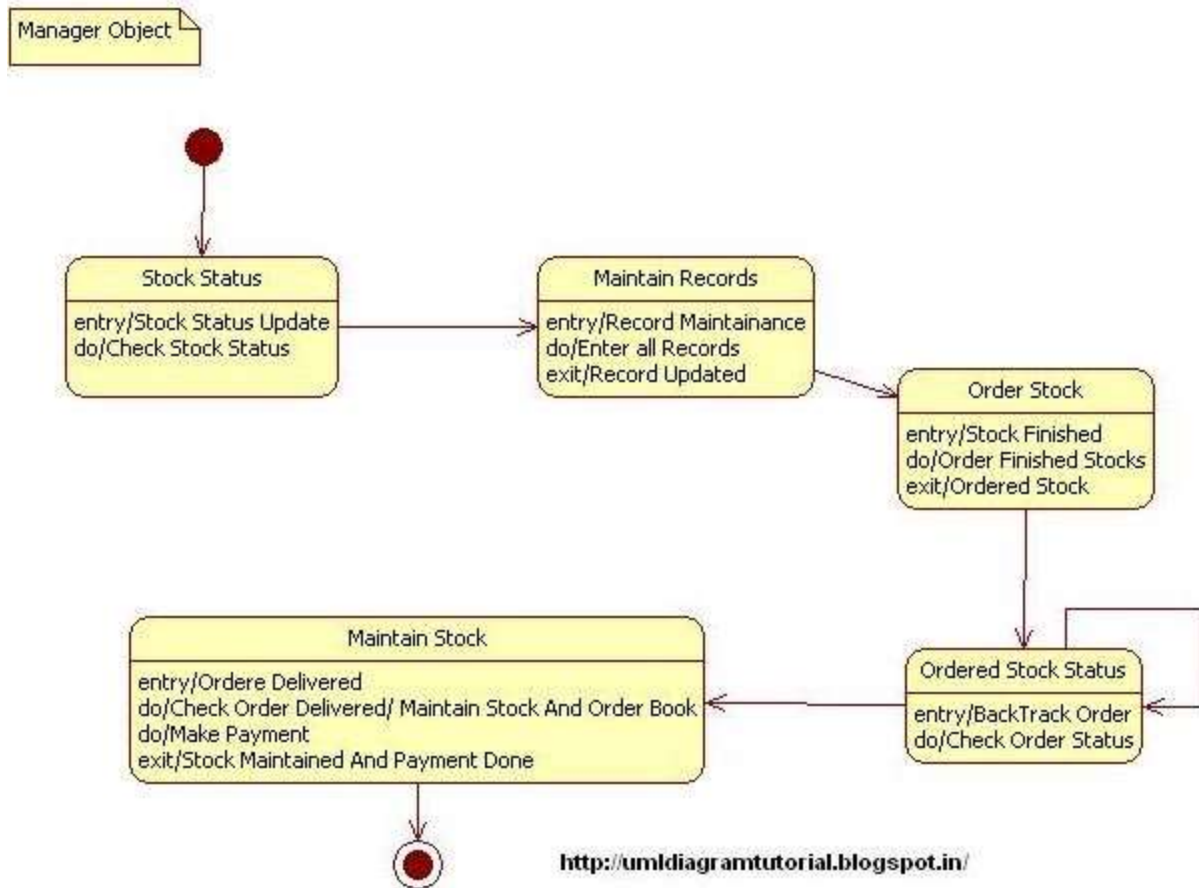
Customer Object



Room Object



Hotel Management System



11- Communication Diagram/ Collaboration diagram

