

SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

Assignment 5

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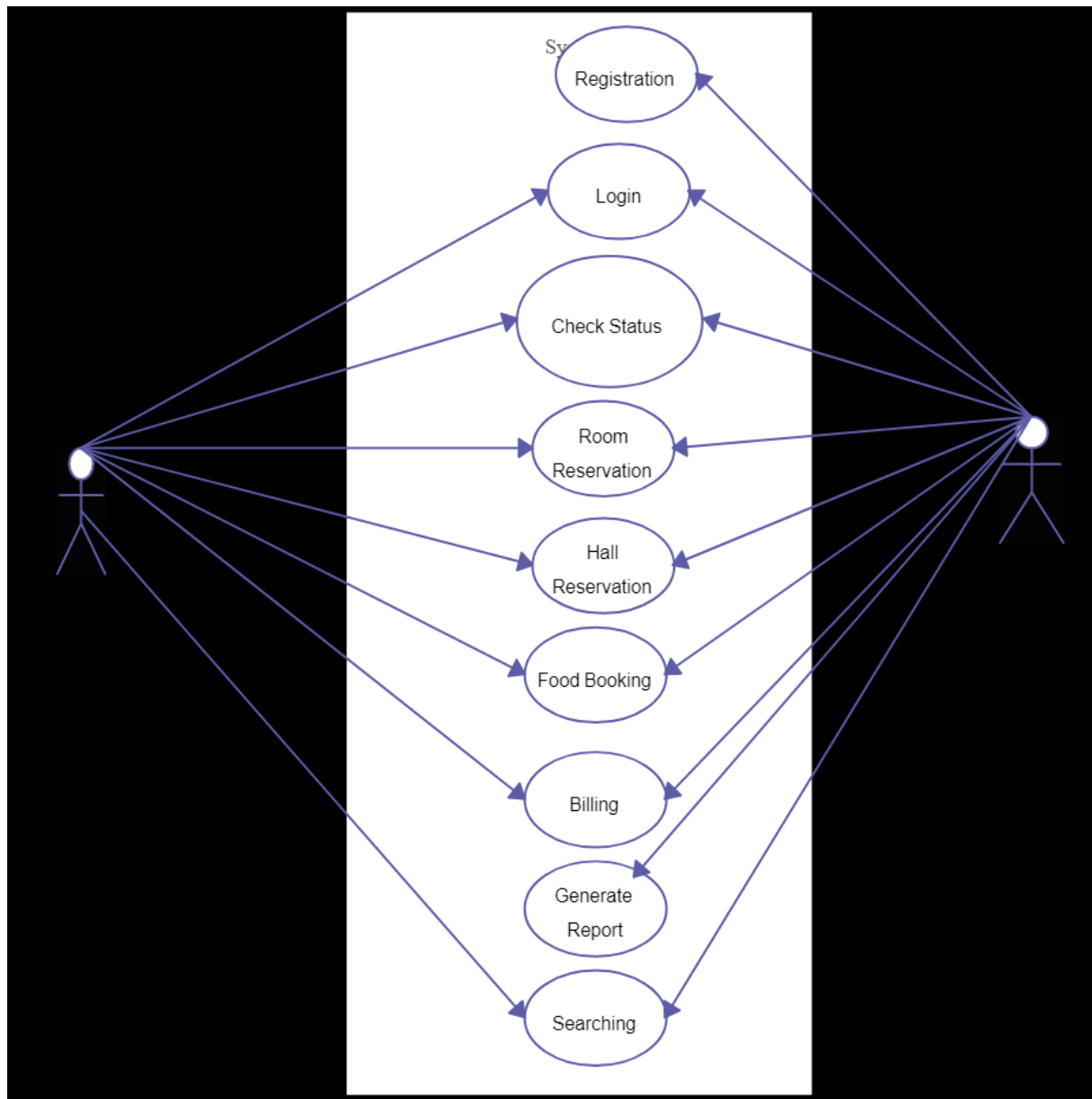
Hotel Management System Use Case Diagram for identified project

This Use Case Diagram is a graphic depiction of the interactions among the elements of Hotel Management System. It represents the methodology used in system analysis to identify, clarify, and organize system requirements of Hotel Management System. The main actors of Hotel Management System in this Use Case Diagram are: Super Admin, System User, Employee, Anonymous Users, who perform the different type of use cases such as Manage Hotel, Manage Rooms, Manage Services, Manage Payments, Manage Booking, Manage Customers, Manage Users and Full Hotel Management System Operations. Major elements of the UML use case diagram of Hotel Management System are shown on the picture below.

The relationships between and among the actors and the use cases of Hotel Management System:

- **Super Admin Entity** : Use cases of Super Admin are Manage Hotel, Manage Rooms, Manage Services, Manage Payments, Manage Booking, Manage Customers, Manage Users and Full Hotel Management System Operations
 - **System User Entity** : Use cases of System User are Manage Hotel, Manage Rooms, Manage Services, Manage Payments, Manage Booking, Manage Customers
 - **Employee Entity** : Use cases of Employee are Manage Rooms, Manage Facilities, Search Rooms, Search Customers, Create Bills, Collect Payments
 - **Anonymous Users Entity** : Use cases of Anonymous Users are View Information, Fill Contact Us, Search Content
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- A ***hotel management system use case diagram*** is used to describe the behavior of the hotel management system. It shows the relationships between users and how they interact with the system.
 - Moreover, the **hotel management system use cases** include the project functions using use cases, actors, and their connections. This explains the complex functions of a system.

Use Case Diagram



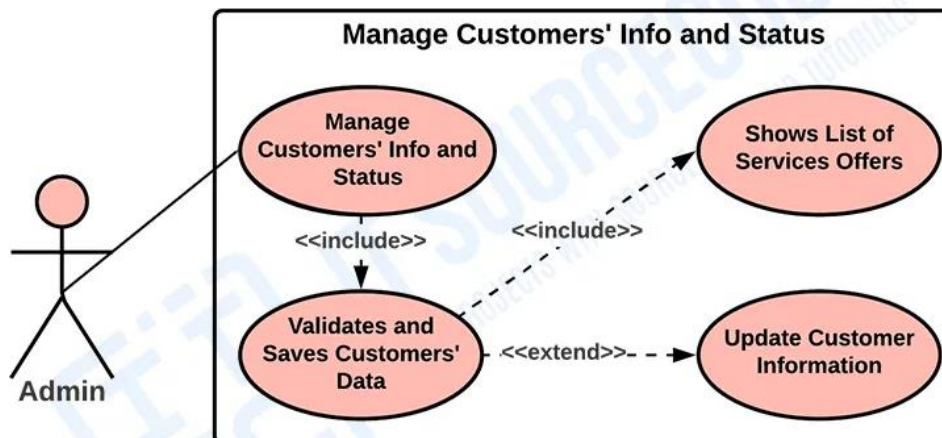
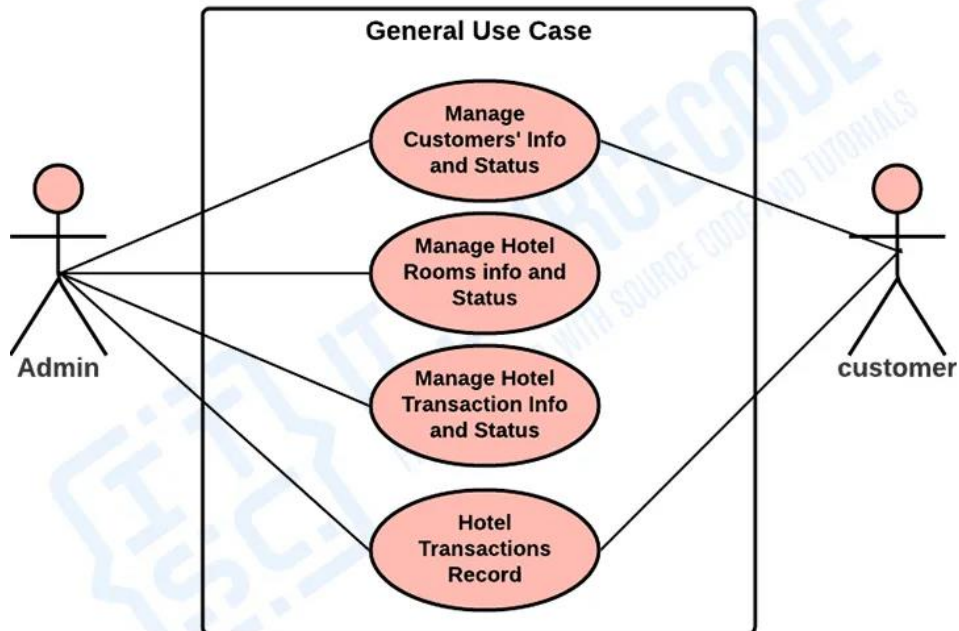
Importance of Use Case Diagram in UML

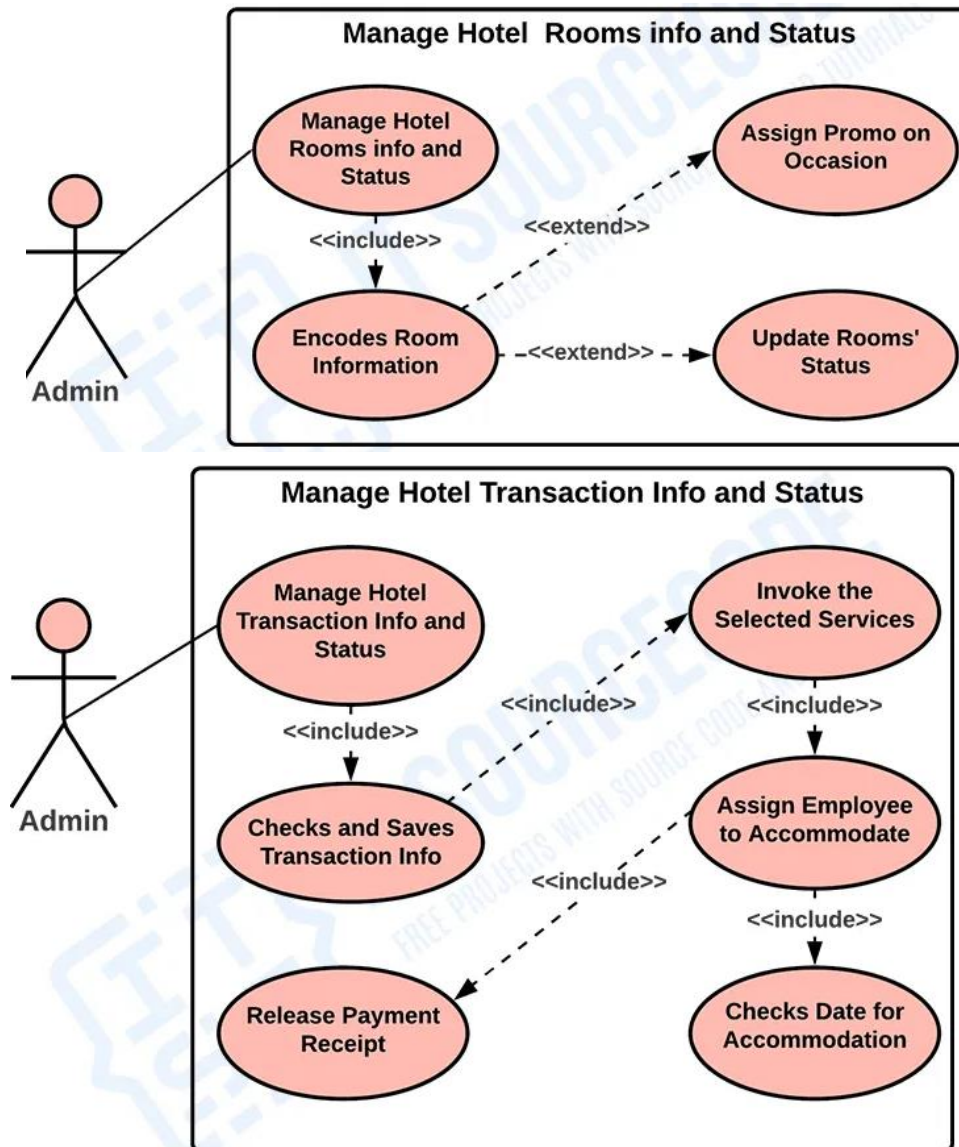
The purpose of this diagram is to help the developers understand system management. It turns the concept into an illustration that mirrors the overall system function. This also determines the requirements of a system.

Furthermore, the diagram serves as the system analysis to identify, clarify, and organize the project's needs. It works best with other unified modeling languages

(UML) diagrams such as activity, class, sequence, deployment, and component diagrams.

HOTEL MANAGEMENT SYSTEM





How to draw a Use Case Diagram?

- **Step 1: Familiarize Use Case Diagram Symbols**

For beginners, you need to familiarize first with use case symbols to be used.

- **Step 2: Determine the system processes**

The next step is to determine the system's processes. They will be the use cases of your project.

You may ask the users about the typical activities done in hotel management.

- **Step 3: Analyze the use cases included**

To find out what the general use cases are, the information from the users needs to be evaluated.

From the general use cases, you will see the sub-cases that are included. However, only include the processes that are relevant to the hotel management system.

- **Step 4: Plot the Use Case Diagram**

To plot the diagram, you will need the users, use cases, containers (scope), and their indicators (association).

Conclusion

The UML use case diagram represents the methodology used in **system development**. It helps developers know the possible inputs that the project should process and perform.

Furthermore, you will discover the needed processes and connect them to the other UML diagrams. The diagram is also applicable in modeling the software's use cases (processes). It captures the system's flow from one process to the next.