

## USE CASE DIAGRAMS.

A use case diagram visually represents the interactions between users (actors) and a system. It shows the specific actions or goals known use cases that actors want to achieve and the relationships between them . This enables one to get better understanding of the system's functionality and identify the key requirements from the user's perspective.

### Using use case diagrams to explain the Warehouse Storage Management System.

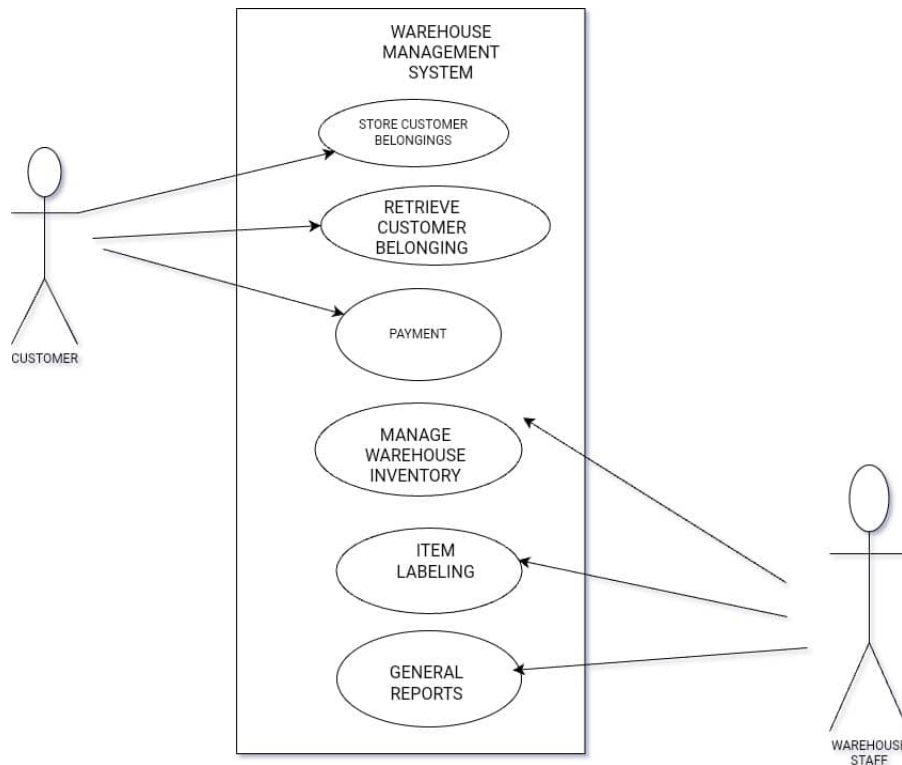
#### Actors:

- **customer**
- **Warehouse Staff**

#### Use Cases:

- **Store customer Belongings:** A customer can store personal belongings in the warehouse.
- **Retrieve customer Belongings:** A customer can retrieve their stored belongings.
- **Manage Warehouse Inventory:** Warehouse staff can track the location of customer belongings, monitor storage capacity, and ensure proper handling of items.
- **Generate Reports:** Warehouse staff can create reports on storage usage, item damage, and financial data.
- **Payment:** The system may need to handle the calculation and collection of storage fees.
- **Item Labeling:** A system for labeling and identifying customer belongings to ensure proper retrieval proper retrieval.

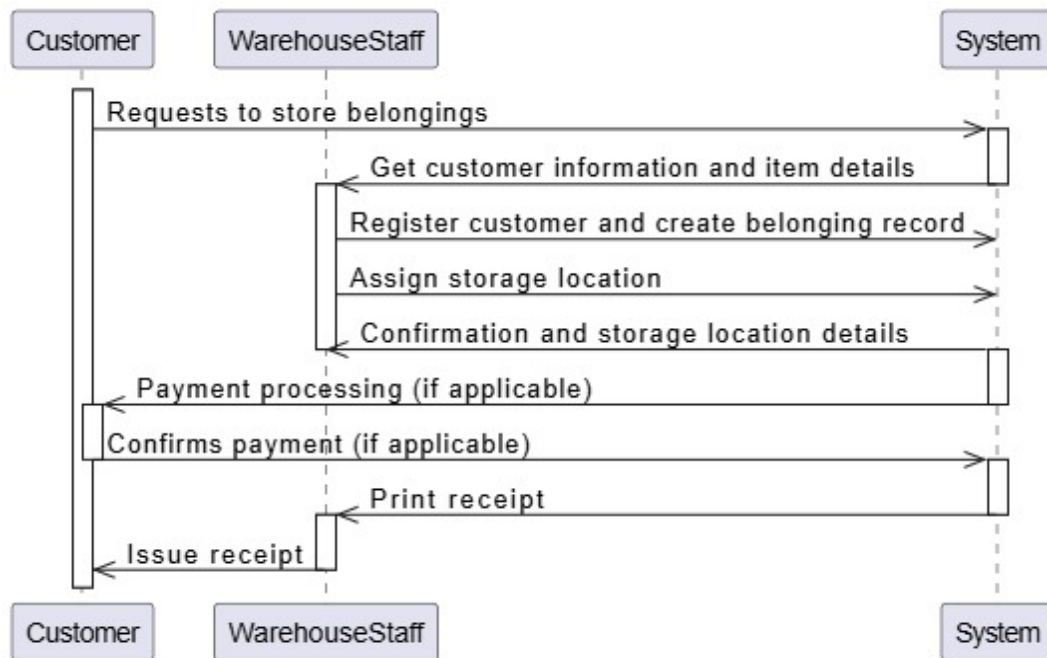
## Illustration of the use case diagram



## SEQUENCE DIADRAM.

A sequence diagram visually represents the interactions between objects in a system over time. In the context of a warehouse storage management system, a sequence diagram would show the step-by-step flow of events when a customer stores or retrieves belongings. For example, it might depict a customer approaching a warehouse staff, providing item details, the staff assigning a storage location, and the customer receiving a receipt. Sequence diagrams help in understanding the system's workflow, identifying potential bottlenecks, and ensuring that interactions between different components are synchronized.

## illustration based on the warehouse storage system



## CLASS DIAGRAM.

A class diagram is a static structure diagram that illustrates the classes, attributes, and operations of a system. In a warehouse storage management system, a class diagram would show entities like Customer, Item, compartment, and section, along with their relationships like a Customer can have many Items, an Item is stored in a compartment. Therefore class diagrams help in understanding the system's architecture, designing the database structure, and identifying potential code dependencies.

## illustration based on the warehouse storage system

