**CLASS DIAGRAM**

The diagram is an example of an Order System of an application. It describes a particular aspect of the entire application.

* First of all, Order and Customer are identified as the two elements of the system. They have a one-to-many relationship because a customer can have multiple orders.
* Order class is an abstract class and it has two concrete classes (inheritance relationship) SpecialOrder and NormalOrder.
* The two inherited classes have all the properties as the Order class. In addition, they have additional functions like dispatch () and receive ().

**SEQUENCE DIAGRAM**

The sequence diagram has four objects (Customer, Order, SpecialOrder and NormalOrder).

The diagram shows the message sequence for *SpecialOrder* object and the same can be used in case of *NormalOrder* object. It is important to understand the time sequence of message flows. The message flow is nothing but a method call of an object.

The first call is *sendOrder ()* which is a method of *Order object*. The next call is *confirm ()* which is a method of *SpecialOrder* object and the last call is *Dispatch ()* which is a method of *SpecialOrder* object. The diagram mainly describes the method calls from one object to another, and this is also the actual scenario when the system is running.

**USE CASE DIAGRAM**

if we look into the diagram then we will find three use cases **(Order, SpecialOrder, and NormalOrder)** and one actor which is the customer.

The SpecialOrder and NormalOrder use cases are extended from *Order* use case. Hence, they have extended relationship. Another important point is to identify the system boundary, which is shown in the picture. The actor Customer lies outside the system as it is an external user of the system.

**ACTIVITY DIAGRAM**

diagram is drawn with the four main activities −

* Send order by the customer
* Receipt of the order
* Confirm the order
* Dispatch the order

After receiving the order request, condition checks are performed to check if it is normal or special order. After the type of order is identified, dispatch activity is performed and that is marked as the termination of the process.