





- 1 -There is a base abstract class User.  
 2 -Three specialized users inherit from it: Customer, StaffPerson, and Owner.  
 3- A Customer can place many orders, while each Order belongs to exactly one customer.  
 4- Each Order is made up of one or more OrderItems, while an OrderItem belongs to exactly one order.  
 5- An OrderItem always refers to a single Product, but a Product may appear in many different order items.  
 6- Each Order generates exactly one Invoice, while an Invoice is linked to exactly one order.  
 7- Each Order is associated with one Payment.  
 8- The Payment class is abstract and has two subclasses: OnlinePayment and CashOnDelivery.  
 9- The Owner can request many Reports.  
 10- Reports are specialized into SalesReport, InventoryReport, and PopularItemsReport.  
 11- Assuming that tracking of order belongs to the delivery system not the online shop system hence the details of delivery boy and other tracking details are not included. Product can exist independently so aggregation and 1 inventory can have many products