**Draw the Use Case Diagram and Class Diagram for following Case Study:**

**BOOK Store in Shopping Mall**

Consider a book store in a shopping mall. The customer selects the books from racks to purchase. The customer brings selected books to cashier. The cashier scans each item with checkout system to prepare an order. The cashier requests to customer for payment. The customer gives credit card to cashier. The verifier and checkout system scans the card. The verifier accepts the card and payment is accepted. Customer signs the credit card slip. The purchased books are handed over to customer.

**Use Case Diagram:**



**Class Diagram:**

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**HOSPITAL Management System**

1. System helps in registering information about patients and handles patient’s query.

2. A unique ID is generated for each patient after registration for maintains medical history of patient.

3. System also monitors the doctor appointments, when the ID is generated the patient receives the  
appointment time and number from the receptionist and accordingly visits the doctor.

4. This system also deals with testing appointments as and when ID is generated the patient receives the   
appointment time and number and accordingly undergoes the test.

5. It also deals with bed allotments to various patients by checking their ID. It also undergoes various   
operations by diagnosing the patients.

6. The system identifies whether the person is a doctor or staff and handles various activities such as   
draw salary and gives salary, also it adds doctor/staff information into database.

7. This system is responsible for handling various other activities like deleting, editing doctor/staff   
information into the database.

8. As per doctor diagnoses the patient, gives treatment and gives suggestions to patients and prescribe   
laboratory tests and medicines.

9. This system also takes care of medical equipment, doctor visit, vitals recording, patient case sheet,   
diet ordering, blood requisition, transfer information and discharge information, maintenance of   
wards, inter and intrawards transfers also it generates patient’s discharge summary which includes   
patients health at the time of discharge, medical history, various diagnosis and drug prescriptions,   
history of patients illness and course in hospital.

10. Patient can pay bill through credit card, cash or cheque whose information is maintained by this   
system.

**Use Case Diagram:**



**Class Diagram:**

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**RETAIL Store Management**

The Retail Store Management System is a system designed for managing i.e. for ordering, arranging and selling goods.The Retailer checks for the availability of goods in the store. If the stock of goods is less then retailer places order for goods. While ordering the goods, goods area received at store, the retailer then arranges them by product or by price, and then retailer makes payment. If the stock of goods is available then he will arrange goods for selling.The retailer then sales the goods directly to the customer. The customer buys the items from retailer. The retailer prepares bill for goods purchased by the customer, he receives amount bycredit or by cash from customer. The supplier supplies the goods to the store in the system. The overall system is used to manage the goods in the store.

**Use Case Diagram:**

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**Class Diagram:**

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**TOUR Management System**

Visitor requests for scheme to check the availability of the desired tour package. This information is stored in Tour Information System. System will check whether the customer is existing or new. New user will enter his personal and tour details for reservation. In turn he/she will be provided with system generated unique ID and password. This login information could be used for further transactions. When customer is satisfied with tour package he/she would request for reservation of tour. Personal details of new customer is stored in customer DB while the details regarding the tour selected by particular customer is stored in tourinfo DB and the details regarding it would be restructured in Tour Information System. Existing customer can update his/her personal details in custinfo DB and cancel reservation for tour from tourinfo DB and changes regarding it are also reflected in Tour Information System. After confirming the tour package the customer will make payment either online or through staff by personally going at the office. Customer can make payment by cash, credit card or by cheque.System checks for the validity of staff. Once the payment is done by customer, valid staff will make Ticket Reservation System. Reserved customer will be able to view details about reservation by providing login information from custinfo DB and tourinfo DB.Administrator can add, delete or modify tour schemes from Tour Information System.

**Use Case Diagram:**



**Class Diagram:**

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