**Point-of-Sale (POS) System Problem Descriptions:**

A POS (Point-Of-Sale) system is a computer system typically used to manage the sales in retail stores. It includes hardware components such as a computer, a bar code scanner, a printer and also software to manage the operation of the store. The most basic function of a POS system is to handle sales. It includes processing of the sales, handling the payments, processing of the gift coupons, and procedures of handling the returns. The Inventory system manages the stock of goods in the retail store. There are two modes of handling the payments either by cash or by credit card. If the customer pays in cash then cashier enters the cash amount and the system presents the balance due. Another functionality of the gift coupons is also available with the POS system. Customers can use gift coupons for paying the bills.

**Functional Requirements**

# **FR1: Purchase Goods**

# FR1.1: Process sale

The Cashier is already logged-in and he starts a new sale transaction. Customer comes up with goods to a counter for purchase in a basket. The Cashier scans the goods. The system retrieve the name with price of the item. The Inventory system gets the quality of goods. The Inventory system manages the stock of goods in the retail store. If the customer’s goods basket is empty, then the Cashier stops the sale transaction and the customer pays the amount. The system prints the receipt. If the cashier needs help then HelpFacility usecase is carried out.

# FR1.2: Process Gift Coupon sale

The cashier selects to process the gift coupons. If the customer has the gift coupon then the cashier signals discount request. The system asks cashier to enter customer identification. The system presents discount total.

# **FR2: Help facility**

The cashier clicks on Help facility button. The system shows a list of Facilities which contains all the information with guidelines. The cashier selects the option for which he needs help. The system shows the required information.

***FR3: Handle Returns***

The customer can pay the amount by cash, HandleCashPayment usecase is carried out. If the customer wants to pay by credit card then, HandleCreditCard usecase is carried out.

# FR3.1: Handle cash payment

The customer pays in cash. The cashier enters the cash amount and the system presents the balance due. The system releases the cash drawer. Cashier deposits cash tendered and returns balance. At last, the system records the cash payment.

*FR3.2: Handle credit card*

The customer enters the card. The system validates the card. If the entered PIN is wrong then the customer is not validated. System records the payment information.

