Assignment # 1

Q1) Identify the Functional, Non- Functional, System and User Requirements of POS.

1. **User Class 1: The Customer**

* Functional Requirement: 1.1

**ID:** FR1

**TITLE**: Multiple Payment Methods

**DESC**: A customer should be able to pay by cash and card.

**RAT**: in order a customer can pay

**DEP**: None

* Functional Requirement: 1.2

**ID:** FR2

**TITLE**: Customer Receipt

**DESC**: A customer should have receipt after the payment.

**RAT**: in order a customer have receipt.

**DEP**: FR1

* Non-Functional Requirement: 2.1

**ID:** NF1

TITLE: Accuracy of Receipt

**DESC**: After, the payment the customer should have the receipt in 20Sec.

**RAT**: in order Receipt machine generate receipt in less time.

* Non-Functional Requirement: 2.2

**ID**: NF2

**TITLE**: Payment Security

**DESC**: The customer should be satisfying by the Payment Security. The Same amount after purchasing will detect from account.

**RAT**: in order the Payment Security will satisfy the customer

* User-Requirement: 3.1

**ID**: UR1.

**DESC**: A customer should have receipt after the payment.

* User-Requirement: 3.2

**ID**: UR2.

**DESC**: A customer should have receipt after the payment.

* System-Requirement: 4.1

**ID**: SR1

**TITLE**: Card Swap Machine

**DESC**: The Customer can swap card if customer have the card, machine should make transaction.

1. **User Class 2: The Cashier**

* Functional-Requirement: 1.1

**ID:** FR1

**TITLE**: Handle Sales

**DESC**: The cashier should be able to Handle sales like, total amount, product listing and product discount.

**RAT**: in order a cashier can handle sales.

**DEP**: None

* Functional-Requirement: 1.2

**ID:** FR2

**TITLE**: Retrieve price and products.

**DESC**: The cashier should be able to retrieve the price of products and can search, update, and delete products.

**RAT**: in order a cashier can retrieve info of products.

**DEP**: FR1

* Functional-Requirement: 1.3

**ID:** FR3

**TITLE**: Handel Payments.

**DESC**: The cashier should be able to handle payments like cash, card, and print receipt.

**RAT**: in order a cashier can handle multiple payments.

**DEP**: FR3

* Non-Functional-Requirement: 2.1

**ID**: NF1

**TITLE**: Secure Payments

**DESC**: The payments methods have to be secure and safe.

**RAT**: in order the payments will be secure.

* Non-Functional-Requirement: 2.2

**ID**: NF2

**TITLE**: Accuracy in functionalities.

**DESC**: All the functions should work within ½ sec.

**RAT**: in order functions works much faster.

* User-Requirement: 3.1

**ID**: UR1

**DESC**: The cashier should be able to Handle sales like, total amount, product listing and product discount.

* User-Requirement: 3.2

**ID**: UR2

**DESC**: The cashier should be able to retrieve the price of products and can search, update, and delete products.

* User-Requirement: 3.3

**ID**: UR3

**DESC**: The cashier should be able to handle payments like cash, card, and print receipt.

* System-Requirement: 4.1

**ID**: SR1

**TITLE**: Bar Code Reader

**DESC**: The Cashier can swap the products and through bar code the product price and descriptions will generate on Cashier System.