Software Requirement Specifications

Inventory Management System

Nevil Parmar
Roll No: CE092
Id – 18CEUBG023
Semester - 5

Overview

The goal is to develop an Inventory management system that provides any firm a functionality that enables them to keep a track of their goods and orders across the supply chain. It also plays a vital role in taking care of small business needs including sales and accounting, and can even help multiple users to handle their workflow efficiently. The firm can manage/store their vendor, shipment, bill, customers, and warehouse records which in turn gets processed by the system to get an analytical view of their progress in the market, and the system can alert/suggest at an apt time.

It provides the interface to users in a graphical way to manage the daily transactions as well as historical data. Also provides the management reports. The aim of the application is to reduce the manual effort needed to manage transaction and historical data used in various godowns. Also this application provides an interface to users to view the details like the daily Stock Management of all godowns.

The system is developed keeping the generic business process model in the focus. Thus it can be easily adopted by any firm with required modification according to their necessity.

Functional Requirements

The major functionality of this product is divided into two categories :
1. Administrative User Functions
2. Normal User Functions

The functionalities are further divided into 4 modules :
1. User Module
2. Sales Module
3. Purchase Module
4. Inventory Module

User Module :

R1.1 Manage User Account

R1.1.1 Login user
Input : User Credentials
Output : Redirected to the user dashboard on successful login
Exception : Invalid credentials pops the alert message.

R1.1.2 Register User
Input : User details
Output : Confirmation on successful user creation
Exception : If a user already exists , it will redirect to the login screen

R1.1.3 Logout user
Input : user selection
Output : redirected to login page

R1.2 Manage User Profile

R1.2.1 View Profile
Description : User can view his profile including email , first name , last name etc.
Input : User selection
Output : User details

R1.2.2 Add profile details
Description : User can add his profile details such as profile photo, email etc.
Input : User profile details
Output : Confirmation message on successful addition

R1.2.3 Update profile details

Description : User can update his profile details such as profile photo, email etc.

Input : User profile details

Output : Confirmation message on successful addition

R1.2.4 Search any specific user

Input : username to be searched

Output : user details is displayed if the user exists in the record

Exception : apt message is displayed to the user incase of user is not present with the given keyword

R1.2.5 Change the user role in the system

Description : Admin can change the user role of different users

Input : User selection

Output : Confirmation message

Sales Module :

R2.1 Manage Customer details

R2.1.1 Insert customer type

Input : customer type name and other details

Output : customer type added successfully to the list

R2.1.2 Update customer type

Input : customer type name and details

Output : Confirmation message

R2.1.3 Delete customer type

Input : user selection

Output : Confirmation message on successful deletion

R2.1.4 Add customer details

Input : customer details

Output : Confirmation message displaying the customer has been added successfully

R2.1.5 Update/Edit customer details

Input : customer details

Output : Confirmation on the successful updation

R2.1.6 Delete customer

Input : user selection

Output : Confirmation on successful deletion

R2.1.7 Search any specific customer

Input : customer to be searched

Output : customer details is displayed if the customer exists in the record

Exception : apt message is displayed to the user incase of customer is not present with the given keyword

R2.1.8 Print the records

Input : user selection

Output : system generates the list of records in the pdf format

R2.2 Manage Sales details

R2.2.1 Insert sales type

Input : sales type name and other details

Output : sales type added successfully to the list

R2.2.2 Update sales type

Input : sales type name and details

Output : Confirmation message on successful updation

R2.2.3 Delete sales type

Input : user selection

Output : Confirmation message on successful deletion

R2.2.4 Add sales details

Input : sales details

Output : Confirmation message displaying the sales has been added successfully

R2.2.5 Update/Edit sales details
Input : sales details
Output : Confirmation on the successful updation

R2.2.6 Delete sales record
Input : user selection
Output : Confirmation on successful deletion

R2.2.7 Search any specific sales record
Input : sales record to be searched
Output : sales record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword

R2.2.8 Print the records
Input : user selection
Output : system generates the list of records in the pdf format

R2.3 Manage Shipment Details

R2.3.1 Add shipment details
Input : shipment details
Output : Confirmation message displaying the shipment has been added successfully

R2.3.2 Update/Edit shipment details
Input : shipment details
Output : Confirmation on the successful updation

R2.3.3 Delete shipment record
Input : user selection
Output : Confirmation on successful deletion

R2.3.4 Insert shipment type
Input : shipment type name and other details
Output : shipment type added successfully to the list

R2.3.5 Update shipment type
Input : shipment type name and details
Output : Confirmation message

R2.3.6 Delete shipment type
Input : user selection
Output : Confirmation message on successful deletion

R2.3.7 Search any specific shipment record
Input : shipment record to be searched
Output : shipment record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword

R2.3.8 Print the records
Input : user selection
Output : system generates the list of records in the pdf format

R2.4 Manage Invoice Details

R2.4.1 Add Invoice details
Input : Invoice details
Output : Confirmation message displaying the Invoice has been added successfully

R2.4.2 Update/Edit Invoice details
Input : Invoice details
Output : Confirmation on the successful updation

R2.4.3 Delete Invoice record
Input : user selection

Output : Confirmation on successful deletion

R2.4.4 Insert Invoice type
Input : Invoice type name and other details
Output : Invoice type added successfully to the list

R2.4.5 Update Invoice type
Input : Invoice type name and details
Output : Confirmation message

R2.4.6 Delete Invoice type
Input : user selection
Output : Confirmation message on successful deletion

R2.4.7 Search any specific invoice record
Input : invoice record to be searched
Output : invoice record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword

R2.4.8 Print the records
Input : user selection
Output : system generates the list of records in the pdf format

R2.5 Manage Payment Details

R2.5.1 Add Payment details
Input : Payment details
Output : Confirmation message displaying the Payment has been added successfully

R2.5.2 Update/Edit Payment details
Input : Payment details
Output : Confirmation on the successful updation

R2.5.3 Delete Payment record
Input : user selection

Output : Confirmation on successful deletion

R2.5.4 Insert Payment type
Input : Payment type name and other details
Output : Payment type added successfully to the list

R2.5.5 Update Payment type
Input : Payment type name and details
Output : Confirmation message

R2.5.6 Delete Payment type
Input : user selection
Output : Confirmation message on successful deletion

R2.5.7 Search any specific payment record
Input : payment record to be searched
Output : payment record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not
present with the given keyword

R2.5.8 Print the records
Input : user selection
Output : system generates the list of records in the pdf format

Purchase Module:
R3.1 Manage Vendor details

R3.1.1 Insert vendor type
Input : vendor type name and other details
Output : vendor type added successfully to the list

R3.1.2 Update vendor type
Input : vendor type name and details
Output : Confirmation message

R3.1.3 Delete vendor type

Input : user selection

Output : Confirmation message on successful deletion

R3.1.4 Add vendor details

Input : vendor details

Output : Confirmation message displaying the vendor has been added successfully

R3.1.5 Update/Edit vendor details

Input : vendor details

Output : Confirmation on the successful updation

R3.1.6 Delete vendor

Input : user selection

Output : Confirmation on successful deletion

R3.1.7 Search any specific vendor record

Input : vendor record to be searched

Output : vendor record details is displayed if the record exists

Exception : apt message is displayed to the user incase of record is not present with the given keyword

R3.1.8 Print the records

Input : user selection

Output : system generates the list of records in the pdf format

R3.2 Manage purchase details

R3.2.1 Insert purchase type

Input : purchase type name and other details

Output : purchase type added successfully to the list

R3.2.2 Update purchase type

Input : purchase type name and details

Output : Confirmation message

R3.2.3 Delete purchase type

Input : user selection

Output : Confirmation message on successful deletion

R3.2.4 Add purchase details

Input : purchase details

Output : Confirmation message displaying the purchase has been added successfully

R3.2.5 Update/Edit purchase details

Input : purchase details

Output : Confirmation on the successful updation

R3.2.6 Delete purchase record

Input : user selection

Output : Confirmation on successful deletion

R3.2.7 Search any specific purchase record

Input : purchase record to be searched

Output : purchase record details is displayed if the record exists

Exception : apt message is displayed to the user incase of record is not present with the given keyword

R3.2.8 Print the records

Input : user selection

Output : system generates the list of records in the pdf format

R3.3 Manage Bill details

R3.3.1 Insert bill type

Input : bill type name and other details

Output : bill type added successfully to the list

R3.3.2 Update Bill type

Input : Bill type name and details

Output : Confirmation message

R3.3.3 Delete Bill type
Input : user selection
Output : Confirmation message on successful deletion

R3.3.4 Add Bill details
Input : Bill details
Output : Confirmation message displaying the Bill has been added
successfully

R3.3.5 Update/Edit Bill details
Input : Bill details
Output : Confirmation on the successful updation

R3.3.6 Delete Bill record
Input : user selection
Output : Confirmation on successful deletion

R3.3.7 Search any specific bill record
Input : bill record to be searched
Output : bill record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not
present with the given keyword

R3.3.8 Print the records
Input : user selection
Output : system generates the list of records in the pdf format

R3.4 Manage Payment voucher details

R3.4.1 Insert payment source
Input : payment source name and other details
Output : payment source added successfully to the list

R3.4.2 Update payment source

Input : payment source name and details

Output : Confirmation message

R3.4.3 Delete payment source

Input : user selection

Output : Confirmation message on successful deletion

R3.4.4 Add Payment voucher details

Input : Payment voucher details

Output : Confirmation message displaying the Payment voucher has been added successfully

R3.4.5 Update/Edit Payment voucher details

Input : Payment voucher details

Output : Confirmation on the successful updation

R3.4.6 Delete Payment voucher record

Input : user selection

Output : Confirmation on successful deletion

R3.4.7 Search any specific payment voucher record

Input : payment voucher record to be searched

Output : payment voucher record details is displayed if the record exists

Exception : apt message is displayed to the user incase of record is not present with the given keyword

R3.4.8 Print the records

Input : user selection

Output : system generates the list of records in the pdf format

Inventory Module :

R4.1 Manage Product details

R4.1.1 Insert Product type

Input : Product type name and other details

Output : Product type added successfully to the list

R4.1.2 Update Product type

Input : Product type name and details

Output : Confirmation message

R4.1.3 Delete Product type

Input : user selection

Output : Confirmation message on successful deletion

R4.1.4 Add Product details

Input : Product details

Output : Confirmation message displaying the Product has been added
successfully

R4.1.5 Update/Edit Product details

Input : Product details

Output : Confirmation on the successful updation

R4.1.6 Delete Product record

Input : user selection

Output : Confirmation on successful deletion

R4.1.7 Add Unit of measure details

Input : Unit of measure details

Output : Confirmation message displaying the Unit of measure has been
added successfully

R4.1.8 Update/Edit Unit of measure details

Input : Unit of measure details

Output : Confirmation on the successful updation

R4.1.9 Delete Unit of measure record

Input : user selection

Output : Confirmation on successful deletion

R4.1.10 Search any specific product record

Input : product record to be searched

Output : product details is displayed if the record exists

Exception : apt message is displayed to the user incase of record is not present with the given keyword

R4.1.11 Print the records

Input : user selection

Output : system generates the list of records in the pdf format