Online Footwear Shop Management System

A project submitted to

UKA TARSADIA UNIVERSITY

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1. Introduction

1.1 Problem Definition

In today's digital world, the preference for online shopping has surged, with a significant number of people choose to buy products through various online websites. This platform should allow them to include essential information such as product images, names, descriptions, and prices making it easy for customers to access and evaluate products without the hassle of visiting physical stores among traffic and spending valuable time.

The online footwear shop management system is an advanced E-commerce online shopping website designed to facilitate customers in making secure purchases of footwears. This platform enables customers to carry out all major transactions with ease and confidence. In today's digital era, the system efficiently manages all processes through its user-friendly online application, offering a convenient and efficient shopping experience for users.

1.2 Project Objective

The main objective of the "Online Footwear Shop Management System" is to enhance flexibility in workflow and easy customer service by enabling home delivery of footwears. Instead, they can now conveniently browse and purchase products online. The system efficiently manages and tracks important information regarding products, inventory, etc.

1.3 Project Scope

The online footwear shop management does not provide delivery service out of India. The system does not provide tracking of the order once they dispatched for delivery. The system does not provide EMI on Purchase the products. After purchasing the product, the system does not provide return order facility.

2. Overall Description

2.1 Product Perspective/Environment Description

2.1.1 Hardware Interface/ Hardware Specification

• Processor: Intel® Core TM i5-4210U CPU @ 1.70GHz

• RAM: 4.00 GB

System Type: 64-bit Operating System, x64-based Processor

• Pen and Touch: Touch Support with 10 Touch Points

• Monitors: Generic PnP Monitors

Keyboard: Standard PS/2 Keyboard

• Mouse: HID-complaint mouse

2.1.2 Software Interface/ Software Specification

1. Front-End: NetBeans IDE 18

NetBeans IDE is an open-source integrated development environment (IDE) primarily used for java, but it also supports other programming languages such as PHP, HTML, C/C++, and more. It provides a comprehensive set of tools and features that help developers to create, debug, and maintain application efficiently.

2. Back-End: SQL Server

SQL (Structured Query language) Used to perform CRUD Operation on

Database.

Rozarpay Payment Gateway used to perform payment service on system.

3. System Specific Requirements

3.1 Functional Requirement

> Manage User Login

| RN | Description | Comment |
|-----|--------------------------------------------------|-------------------|
| FR1 | The admin shall be able to login with own | Login page |
| | unique 'Email id; and 'password'. | |
| FR2 | Customer and staff must be register before | Registration page |
| | authenticate login. | |
| FR3 | The admin, customer and staff shall be able to | Forget password |
| | change password of their profile. | page |
| FR4 | User shall be able to use all the features after | Home page |
| | the authenticate of username and password. | |
| FR5 | The admin, customer and staff shall be able to | Logout page |
| | logout from the system anytime they want. | |

> Manage Staff

| RN | Description | Comment |
|-----|-----------------------------------------------|-------------------|
| FR1 | Admin / staff can login with their unique | Login page |
| | 'email id' and 'password'. | |
| FR2 | Admin shall be able to all features after the | Add / update page |
| | authenticate of username and password. | |
| | Like: add, update, view and delete | |
| FR3 | The admin shall be able to logout from the | Logout page |
| | system anytime they want. | |

> Manage Product

| RN | Description | Comment |
|-----|-------------------------------------------------|--------------|
| FR1 | Admin shall be able to manage all the product. | Product page |
| FR2 | Customer shall be able to view all products. | View |
| FR3 | The system will assign a unique id (product id) | Product page |
| | to each product. | |
| FR4 | Admin shall be able to manage many other | Product page |
| | modules: | |
| | Add / edit / view /active and DE active | |
| | Manage type | |
| | Manage offer | |

> Manage Customer

| RN | Description | Comment |
|-----|-----------------------------------------------|---------------|
| FR1 | Customer can login with own unique 'email id' | Login page |
| | and 'password'. | |
| FR2 | The system will assign a unique id [customer | Add customer |
| | id] and password. | page |
| FR3 | Customer can perform the operations like: | Customer page |
| | Edit profile | |
| | • Visit website | |
| | Search products | |
| | Add to cart | |
| | Give order | |
| FR4 | Admin shall be able to view the customer | Customer page |
| | details. | |

> Manage Order

| RN | Description | Comment |
|-----|--------------------------------------------------|------------------|
| FR1 | This module shall be able to manage by | Order page |
| | customer. | |
| FR2 | The system will assign a unique id [order id] to | Order page |
| | each order. | |
| FR3 | Customer must be register into system before | Order page |
| | give any order. | |
| FR4 | Customer shall be able to add products to cart | Add to cart page |
| | after login. | |
| FR5 | Customer can perform the operations like: | View cart page |
| | Add to cart | |
| | Edit cart | |
| | View cart | |
| FR6 | Customer shall be able to order products after | Order page |
| | login. | |

> Manage Payment

| RN | Description | Comment |
|-----|-----------------------------------------------|------------------|
| FR1 | The system will assign a unique id [payment | Payment page |
| | id] to each transaction. | |
| FR2 | The admin shall be able to view every payment | View payment |
| | transaction. | transaction page |
| FR3 | The system must take payment in Only Net | Payment page |
| | Banking. | |

> Manage Feedback

| RN | Description | Comment |
|-----|------------------------------------------|---------------|
| FR1 | Feedback module will be managed by admin | Feedback page |
| | and customer. | |
| FR2 | Admin sill able to view customer order | Feedback page |
| | feedback. | |
| FR3 | Customer can give wise feedback. | Logout page |

➤ Generate Report

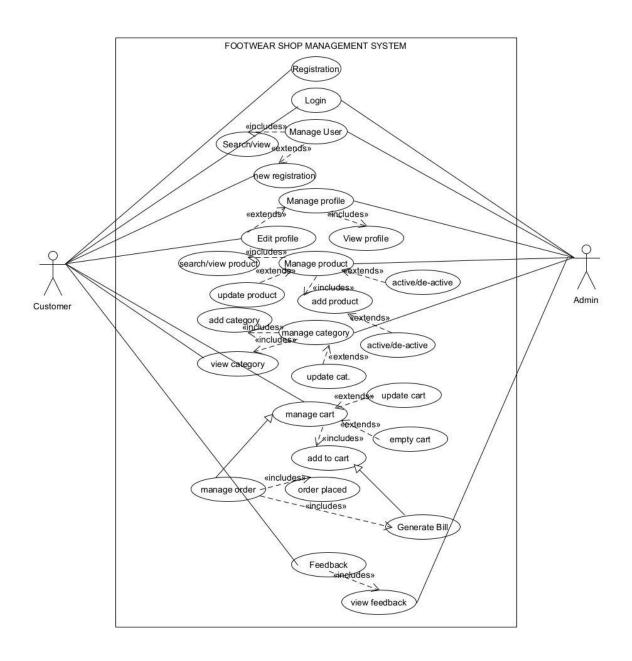
| RN | Description | Comment |
|-----|-----------------------------------------|-------------|
| FR1 | Generate report module manage by admin. | Report page |
| FR2 | Admin will generate report like: | Report page |
| | Customer report | |
| | Customer Order wise report | |
| | Stock wise report | |

3.2 Non-Functional Requirement

| RN | Description | Comment |
|------|------------------------------------------------|-----------------|
| NFR1 | The extent to which a software product | Reliability |
| | performs its intended functions without | |
| | failure. | |
| NFR2 | The system will be designed in a maintainable | Maintainability |
| | manner. It will be easy to add new | |
| | requirements in the any individual modules | |
| NFR3 | The extents to which the software is simple in | Simplicity |
| | its operations. | |
| NFR4 | The application will be password protected. | Security |
| | The users will have to enter correct username | |
| | and password to access the system. | |
| NFR5 | The application will be user-friendly and easy | Usability |
| | to operate, the functions will be easily | |
| | understandable. | |

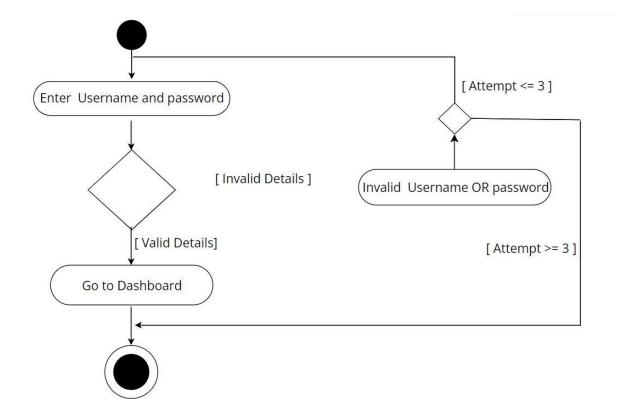
4. UML Diagrams

4.1 Use Case Diagram

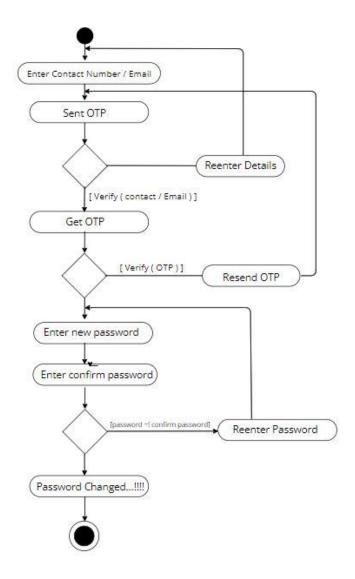


4.2 Activity Diagram

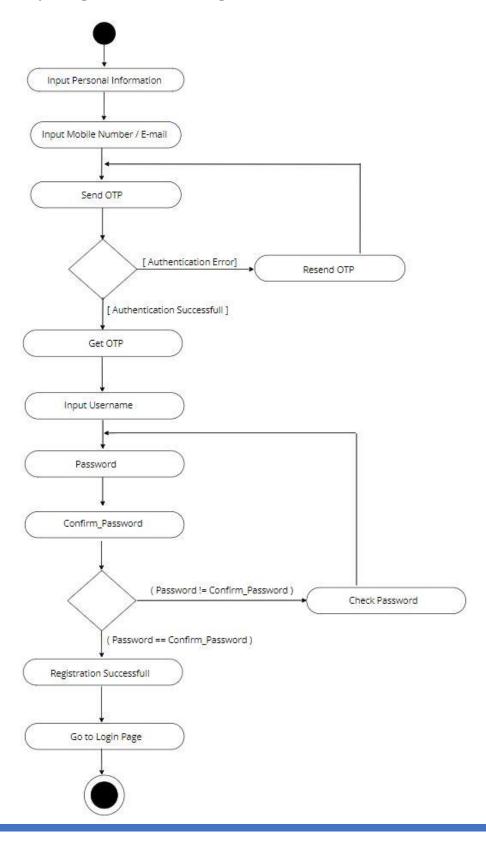
4.2.1 Activity Diagram for Login



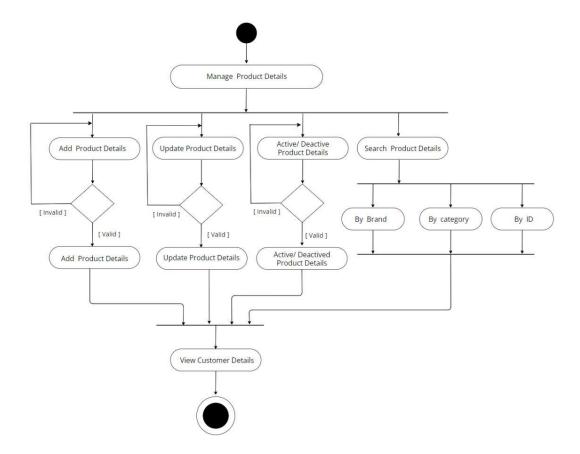
4.2.2 Activity Diagram for Forgot Password



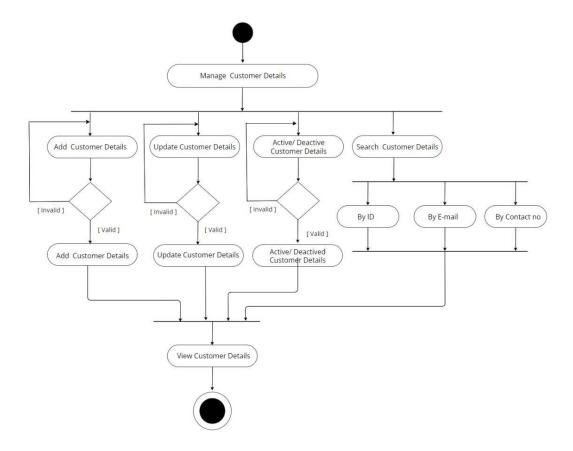
4.2.3 Activity Diagram for New Registration of Customer



4.2.4 Activity Diagram for Manage Product



4.2.5 Activity Diagram for Manage Customer



5. System Design

5.1 Database Design

5.1.1 Database Schema

```
❖ Common Table
      tblstate: - (id [PK], name)
      FD: - id [PK] -> name
      tblcity: - (id [PK],name, Sid[FK])
      FD := id[PK] \rightarrow name, sid
      Tbl brand :- (id[PK],name
      FD := id[PK] \rightarrow name
      Tbl_size :- (id[PK],size_number
      FD:-id[PK]->size number
      Tbl color:-(id[PK],color name
      FD :- id[PK] -> color name
      Tbl category :- (id[PK],c name)
      FD :- id[PK] -> c_name
      Tbl_subcategory :- (id[PK],sc_name,category_id[FK])
      FD :- id[PK] -> sc_name,category_id
      Tbl_stock :- (id[PK],product_id[FK],quantity)
      FD :- id[PK] -> product id, quantity
```

```
Master Tables :-
     Tbl user:-
     (id[PK],fullname,email,password,contact no,gender,cityid[FK],role,registered dat
     e)
     FD :- id[PK] ->
     fullname,email,password,contact no,gender,cityid,role,registered date
     Tbl product:-
     (id[PK],product name,model no,category id[FK],subcategory id[FK],brand id[F
     K],size_id[FK],color_id[FK],img1,added_date)
     FD:-id[PK]
     sproduct name, model no, category id, subcategory id, brand id, size id, color id, pr
     ice,product img1,added date
     tbl cart :- (id[PK],product id[FK],user id[FK],color id[FK],size id[FK],quantity)
     FD:-id[PK]-> product id,user id,quantity,color id,size id
     Tbl order :- (id[PK]fname,lname,user id[FK],pay
     id[FK],amount,address,order status,order date)
     FD :- id[PK] ->
   fname,lname,user id,pay id,amount,address,order status,order date
     tbl_Feedback: (ID[PK], User _ID[FK], Description)
      FD: ID ->User_ID[FK], Description
```

5.1.2 Data Dictionary

1.tbluser:-

| Sr.no | Attribute Name | Data Type | Size | Constraint | Description |
|-------|---------------------|-----------|------|--------------------|-----------------------------------------|
| 1. | ID | Int | 10 | Primary Key | It holds unique product ID. |
| 2. | Fullname | Varchar | 50 | Not null | It holds fullName of customer |
| 3. | password | Varchar | 256 | Not null | It holds password of customer |
| 4. | email | Varchar | 50 | Unique key | It holds Email of customer |
| 5. | Contact | bigint | 20 | Not null | It holds Customer contact. |
| 6. | cityid | int | 10 | Foreign key | It refered from tblcity |
| 7. | Gender | Varchar | 30 | Not Null | It holds Customer gender |
| 8. | role | varchar | 30 | Not null,unique | It holds role for user. |
| 9. | Registered_da te | date | - | Null | It holds Customer Registered date |

2.tblproduct :-

| Sr.no | Attribute | Data Type | Size | Constraint | Description |
|-------|-----------|-----------|------|-------------|--------------------------------|
| | Name | | | | |
| 1. | ID | Int | 10 | Primary Key | It holds unique Product ID. |

| 2. | Product_Name | Varchar | 50 | Not null | It holds the name of product. |
|-----|-----------------|---------|------|-------------|------------------------------------------------------------|
| 3. | Quantity | Int | 20 | Not null | It holds the Quantity of the product. |
| 4. | Category_ID | Int | 50 | Foreign key | It holds the unique Category_ID from category table. |
| 5. | Price | Float | 10,2 | Not null | It holds the price of product. |
| 6. | Model_no | Varchar | 90 | Not null | It holds the model of the product. |
| 7. | Brand_ID | Int | 50 | Foreign key | It holds the unique Brand_ID from brand table. |
| 8. | Stock | Int | 50 | Not null | It holds the stock of the product. |
| 9. | Image1 | int | 100 | Not null | It holds the path of the image_id of product. |
| 10. | Added_date | date | - | Not null | It holds the stock in date of product. |
| 11. | Subcategory_i d | Int | 10 | Foreign key | It holds the unique subCategory_ID from subcategory table. |
| 12. | Size_id | Int | 10 | Foreign key | It holds the unique size_ID from size table. |
| 13. | Color_id | Int | 10 | Foreign key | It holds the unique Color_ID from color table. |

3.tblcategory:-

| Sr.no | Attribute Name | Data Type | Size | Constraint | Description |
|-------|-------------------|-----------|------|-------------|-------------------------------------------|
| 1. | ID | Int | 10 | Primary Key | It holds unique Category ID. |
| 2. | Category Name | Varchar | 50 | Not null | It holds the name of Category of product. |

4.tblsubcategory:-

| Sr.no | Attribute Name | Data Type | Size | Constraint | Description |
|-------|----------------------|--------------|------|-------------|---------------------------------------------------------|
| 1. | ID | Int | 10 | Primary Key | It holds unique ID |
| 2. | Sub Category Name | char | 50 | Not Null | It holds the name of SubCategory of product. |
| 3. | Category_Id | Int | 90 | Foreign key | It refered the Id of Category from Category table |

5.tblbrand:-

| Sr.no | Attribute | Data Type | Size | Constraint | Description |
|-------|----------------|-----------|------|-------------|-----------------------|
| | Name | | | | |
| 1. | ID | Int | 10 | Primary Key | It holds unique |
| | | | | | Brand ID. |
| | | | | | |
| 2. | Brand Name | Varchar | 50 | Not null | It holds the name of |
| | | | | | Brand of product. |
| | | | | | |
| 3. | subcategory_Id | Int | 90 | Foreign key | It referred the Id of |
| | | | | | subCategory from |
| | | | | | subCategory table |

6.tblsize:-

| Sr.no | Attribute | Data Type | Size | Constraint | Description |
|-------|-------------|-----------|------|-------------|---------------------------------------|
| | Name | | | | |
| 1. | ID | Int | 10 | Primary Key | It holds unique size ID. |
| 2. | Size Number | Int | 50 | Not null | It holds the name of size of product. |

7.tblcolor:-

| Sr.no | Attribute | Data Type | Size | Constraint | Description |
|-------|------------|-----------|------|-------------|----------------------------------------|
| | Name | | | | |
| 1. | ID | Int | 10 | Primary Key | It holds unique color ID. |
| 2. | Color_Name | Varchar | 50 | Not null | It holds the name of color of product. |

9.tbl_cart:-

| Sr.no | Attribute | Data | Size | Constraint | Description |
|-------|------------|------|------|-------------|-------------------------------------------------|
| | Name | Туре | | | |
| 1. | ID | Int | 10 | Primary Key | It holds unique ID |
| 2. | Product_ID | Int | 10 | Foreign Key | It holds the Product_ID from the Product_table. |
| 3. | User_ID | Int | 10 | Foreign Key | It holds the User_ID from the tbl_user table. |
| 4. | Quantity | Int | 90 | Not null | It holds the quantity of product in cart. |
| 5. | Size_id | Int | 10 | Not null | It holds the key of Size of tbl_size |

10.tbl_order:-

| Sr.no | Attribute | Data Type | Size | Constraint | Description |
|-------|-----------|-----------|------|-------------|------------------------------|
| | Name | | | | |
| 1. | ID | Int | 10 | Primary Key | It holds unique order ID. |
| 2. | FName | Varchar | 40 | Not null | It holds First Name |

| 3. | LName | Varchar | 40 | Not null | It holds Last Name |
|----|---------------------|---------|------|-------------|----------------------------------------------------------|
| 4. | Pay_ID | Int | 10 | Foreign Key | It holds the pay_ID Which unique |
| 5. | Cart_Product_ ID | Int | 10 | Foreign Key | It holds Cart_product_id from Cart product table. |
| 6. | Order_Date | date | - | Not null | It holds the orders date. |
| 7. | amount | Float | 10,2 | Not null | It holds total amount of the product. |
| 8. | Order_Status | Varchar | 20 | Not null | It holds the status of availability Payment the product. |

12.tblfeedback:-

| Sr.no | Attribute | Data Type | Size | Constraint | Description |
|-------|-------------|-----------|------|-------------|-------------------------------------------|
| | Name | | | | |
| 1. | ID | Int | 10 | Primary Key | It holds unique review ID. |
| 2. | user_ID | Int | 10 | Foreign Key | It holds the user_ID from the user table. |
| 3. | Description | Varchar | 500 | Not null | It holds the Review description. |

13.tblstate:-

| Sr.no | Attribute | Data Type | Size | Constraint | Description |
|-------|-----------|-----------|------|-------------|---------------------------|
| | Name | | | | |
| 1. | ID | Int | 10 | Primary Key | It holds unique state ID. |

| 2. | name | varchar | 200 | Notnull | It holds name of |
|----|------|---------|-----|---------|------------------|
| | | | | | state |
| | | | | | |
| | | | | | |

14.tblcity:-

| Sr.no | Attribute Name | Data Type | Size | Constraint | Description |
|-------|-------------------|-----------|------|-------------|---------------------------------------------|
| 1. | ID | Int | 10 | Primary Key | It holds unique state ID. |
| 2. | name | varchar | 200 | Notnull | It holds name of state |
| 3. | State_id | Int | 10 | Foreign key | It refered sstate_id from state table |

15.tblstock:-

| Sr.no | Attribute Name | Data Type | Size | Constraint | Description |
|-------|-------------------|-----------|------|-------------|-----------------------------------------------------|
| 1. | ID | Int | 10 | Primary Key | It holds unique stock ID. |
| 2. | Product_ID | Int | 10 | Foreign Key | It refrereds the Product_ID from the Product_table. |
| 3. | Quantity | Int | 20 | Not null | It holds the Quantity of the product. |

6. System Implementation

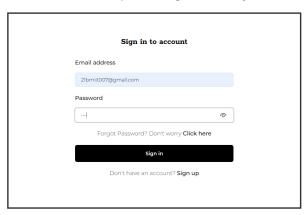
6.1 Screenshots

1.home:

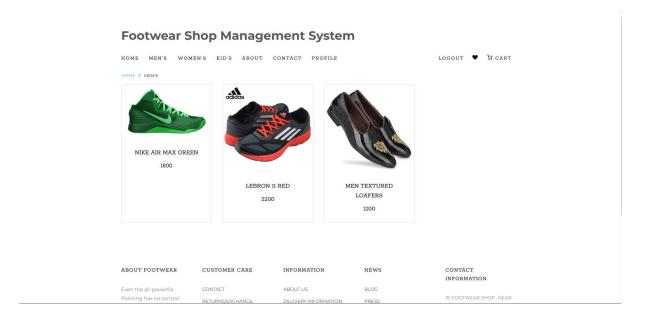


2.login:

Footwear Shop Management System

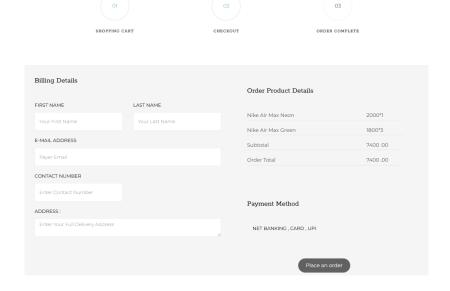


3.Product:

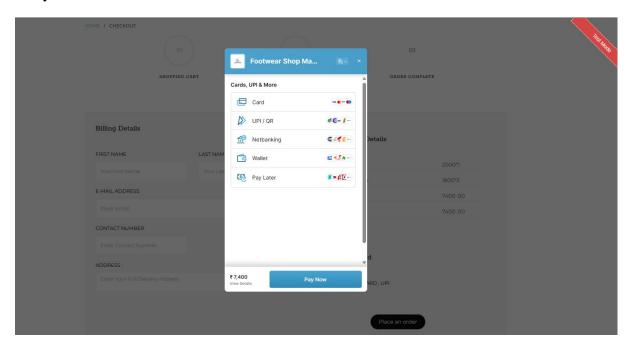


4.CheckOut

HOME / CHECKOUT



5.Payment:



7. Testing

7.1 Test Cases:

7.1.1 .Registration Form :

| Sr. No. | Input Field | Input Value | Valid/ Invalid | For Valid Value | For Invalid Value |
|------------|-------------|-------------------------|-------------------|--------------------|--------------------------------------|
| | | Ravi | Valid | No Message | |
| | | Abcde | Valid | No Message | |
| 1. | Full Name | [Empty] | Invalid | | Please Enter Your First Name! |
| | | Ravi012 | Invalid | | Please Input Only Character! |
| | | Ravi@gmail.com | Valid | No Message | |
| 2. | Email | [Empty] | Invalid | | Please Enter Your Email ID! |
| | | Ravi.com | Invalid | | Please Check Your Email ID! |
| | | Surat | Valid | No Message | |
| 3. | City | Select Your city | Invalid | | Please Select Your City! |
| | | 9725158630 | Valid | No Message | |
| 4. | Contact No. | [Empty] | Invalid | | Please Enter Your Contact Number! |
| | | Dj2939he83e7he | Invalid | | Please Input Only Numeric! |
| 5. | Gender | Male [Default Selected] | Valid | No Message | |
| | | 1 | Valid | No Message | |
| 6. | Role | [Empty] | Invalid | | Please Enter Your Role! |
| | | Admin | Invalid | | Please Check Your Role! |
| 7. | Password | Sahil45 | Valid | No Message | |

| | | Sahil@.com | Valid | No Message | |
|---|---------------------|------------|---------|------------|----------------------------------------|
| | | [Empty] | Invalid | 1 | Please Enter Your Password! |
| | | 1234 | Invalid | | Minimum 6 character. |
| | | Sahil45 | Valid | No Message | |
| S | Confirm Password | [Empty] | Invalid | | Please Enter Your Confirm Password! |
| | | SAhil88 | Invalid | | Password Missmatch! |

7.1.2. Login Form:

| Sr. No. | Input Field | Input Value | Valid/ Invalid | For Valid Value | For Invalid Value |
|------------|-------------|----------------|-------------------|--------------------|--------------------------------|
| | | Ravi@gmail.com | Valid | No Message | |
| 1. | Email | [Empty] | Invalid | | Please Enter Your Email ID! |
| | | Ravi.com | Invalid | | Please Check Your Email ID! |
| | | Sahil45 | Valid | No Message | |
| | | Sahil@.com | Valid | No Message | |
| 2. | Password | [Empty] | Invalid | -1 | Please Enter Your Password! |
| | | 1234 | Invalid | | Minimum 6 character. |

7.1.3 .Add Product Form:

| Sr. No. | Input Field | Input Value | Valid/ Invalid | For Valid Value | For Invalid Value |
|------------|-----------------|-----------------|-------------------|--------------------|------------------------------------|
| | | Ravi Avaiya | Valid | No Message | |
| | | Abcde xyz | Valid | No Message | |
| 1. | Product Name | [Empty] | Invalid | | Please Enter Your Product Name! |
| | | Ravi 01 Avaiya | Invalid | | Please Input Only Character! |
| | | Ravi120 | Valid | No Message | |
| 2. | Model No | [Empty] | Invalid | | Please Enter Your Model No! |
| | | Ravi.com | Invalid | | Please Check Your Model No! |
| | | Rau mba | Valid | No Message | |
| 3. | Description | [Empty] | Invalid | | Please Enter Description! |
| | | Dj2939he83e7he | Invalid | | Please Input Only Alphabat! |
| 5. | Quantity | 120 | Valid | No Message | |
| | | 210 | Valid | No Message | |
| 6. | Price | [Empty] | Invalid | | Please Enter Your Price! |
| | | Arv12 | Invalid | | Please Enter Numeric |
| 8. | image | Image.jpg | Valid | No Message | |
| | | [Empty] | Invalid | | Please Upload Image! |
| 9. | Category | Men:Selected | Valid | No Message | |
| 10. | Sub Category | Sports:Selected | Valid | No Message | |
| 11. | Brand | Nike:Selected | Valid | No Message | |

| 12. | Size | 6:Selcted | Valid | No Message | |
|-----|-------|---------------|-------|------------|--|
| 13. | Color | Pink:Selected | Valid | No Message | |

7.1.4 .Wishlist Form:

| Sr. No. | Input Field | Input Value | Valid/ Invalid | For Valid Value | For Invalid Value |
|------------|-------------|----------------|-------------------|--------------------|---------------------------------|
| | | Ravi Avaiya | Valid | No Message | |
| | | Abcde xyz | Valid | No Message | |
| 1. | Product_id | [Empty] | Invalid | | Please Enter Your Full Name! |
| | | Ravi 01 Avaiya | Invalid | | Please Input Only Character! |
| | | 1 | Valid | No Message | |
| 2. | User_id | [Empty] | Invalid | | Please Enter Your User ID! |
| | | А | Invalid | | Please Check Your User ID! |
| | | 23-12-2023 | Valid | No Message | |
| 3. | Added_date | [Empty] | Invalid | | Please pick a Date! |
| | _ | 23122023 | Invalid | | Please Input Properly! |

7.1.5 .Order Form :

| Sr. No. | Input Field | Input Value | Valid/ Invalid | For Valid Value | For Invalid Value |
|------------|-------------|---------------------|-------------------|--------------------|--------------------------------------|
| | | Ravi | Valid | No Message | |
| | | Abcde | Valid | No Message | |
| 1. | First Name | [Empty] | Invalid | | Please Enter Your First Name! |
| | | Ravi06 | Invalid | | Please Input Only Character! |
| | | Avaiya | Valid | No Message | |
| 2. | Last Name | [Empty] | Invalid | | Please Enter Your Last Name! |
| | | av6189 | Invalid | | Please Input Only Character! |
| | | India | Valid | No Message | |
| 3. | Country | Select Your Country | Invalid | | Please Select Your Country! |
| | | 2010 | Valid | No Message | |
| 4. | Amount | [Empty] | Invalid | | Please Enter Your Amount! |
| | | Rav552 | Invalid | | Please Input Only Numeric! |
| 5. | User_id | 1 | Valid | No Message | |
| | | Ravi@gmail.com | Valid | No Message | |
| 6. | Payer Email | [Empty] | Invalid | | Please Enter Your Email ID! |
| | | Ravi.com | Invalid | | Please Check Your Email ID! |
| | | 9725158630 | Valid | No Message | |
| 4. | Contact No. | [Empty] | Invalid | | Please Enter Your Contact Number! |

| | | Dj2939he83e7he | Invalid | | Please Input Only Numeric! |
|----|--------------|----------------|---------|------------|-------------------------------|
| | | 23-12-2023 | Valid | No Message | |
| 3. | Payment_date | [Empty] | Invalid | 1 | Please pick a Date! |
| | | 23122023 | Invalid | | Please Input Properly! |

8.Future Enhancement:

The Performance and efficiency of the system can be enhanced by techniques advances.

Conclusion:

This software has its own advantages and disadvantages but it can surely help with the easier and error-free management of a System. It is much efficient and useful then the current manual system.

Bibliography:

1) Book Referred :- Object Oriented software engineering by Yogesh Singh and Ruchika Malhotra.