SPORTY SHOES E-COMMERCE WEBSITE

Problem Statement:

Sporty Shoes is a company that manufactures and sells sports shoes. They have a walk-in store, and now, they wish to launch their e-commerce portal sportyshoes.com.

Description:

The user should be able to see the products and should be able to buy products.

There will be an admin to manage the website. An administrator login will be required to access the admin page.

The admin should be able to change his password if he wants, he should be able to:
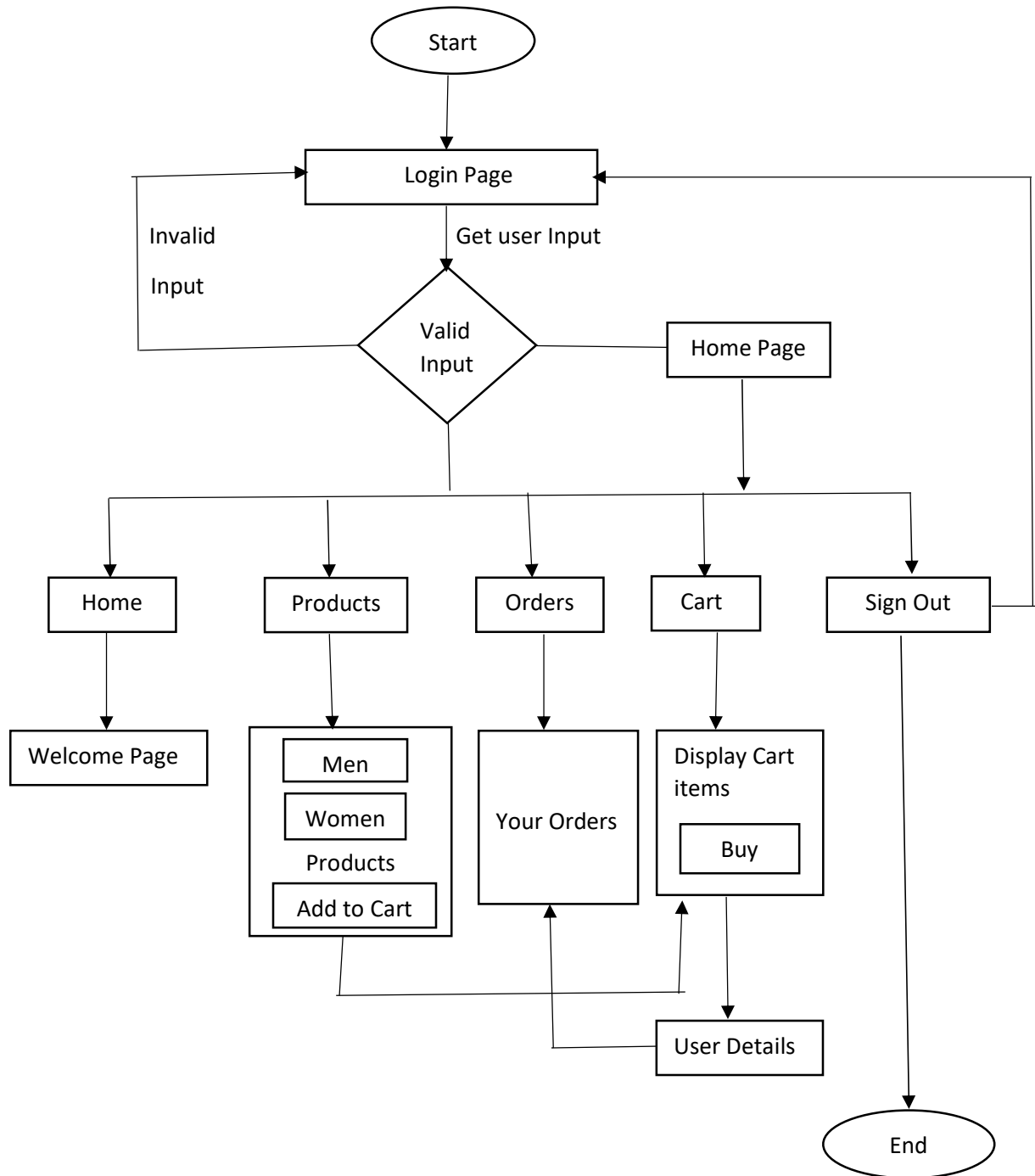
- Manage the products in the store including categorizing them
- Browse the list of users who have signed up and be able to search users
- See purchase reports filtered by date and category
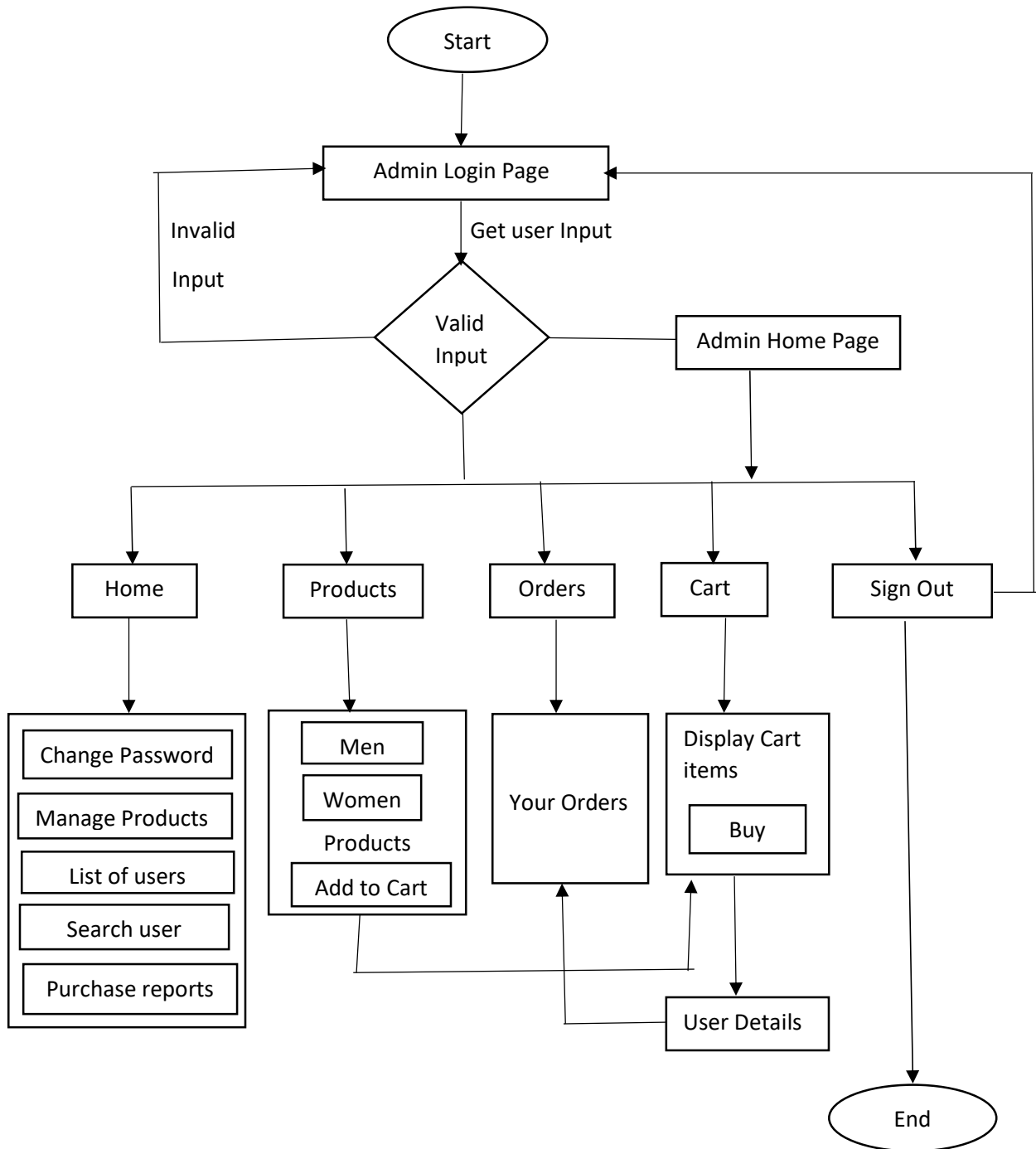
Developer: Venkata Padmini Bollineni

Sprint Planning: Sprint Duration (1 week)

Sprint	Tasks Achieved
1	Implemented the code for login page, home page that includes the options for operating the website and styling the interface of the website.
2	Developed the Jsp files for displaying products by categories, Orders, and Cart and implemented the code for admin login page and admin home page that includes the operations like change password, managing products, list of users and search users and purchase reports.
3	Developed the spingMVC code and established the connection between springMVC and Jsp files. Tested the performance of the website by performing various operations that are included in the application.

Flow of the Application: (User Flow**)**

```
                          ┌──────────┐
                          │   Start  │
                          └──────────┘
                               │
                               ▼
   ┌─────────────────────►┌──────────────┐◄──────────────────────┐
   │                      │  Login Page  │                        │
   │                      └──────────────┘                        │
   │                            │                                 │
 Invalid                  Get user Input                          │
 Input                         ▼                                  │
   │                        ◇ Valid ◇         ┌──────────────┐    │
   └────────────────────────◇ Input ◇─────────│  Home Page   │    │
                               ◇              └──────────────┘     │
                               │                      │           │
                               ▼                      ▼           │
   ┌────────┬───────────┬──────────┬────────┬─────────────────┐   │
   ▼        ▼           ▼          ▼         ▼                 │
┌──────┐ ┌────────┐ ┌────────┐ ┌──────┐ ┌──────────┐          │
│ Home │ │Products│ │ Orders │ │ Cart │ │ Sign Out │──────────┘
└──────┘ └────────┘ └────────┘ └──────┘ └──────────┘
   │        │           │          │          │
   ▼        ▼           ▼          ▼          ▼
```

Home	Products	Orders	Cart	Sign Out
Welcome Page	Men / Women / Products / Add to Cart	Your Orders	Display Cart items / Buy	End

User Details

Admin Flow:

```
                                    ┌─────────┐
                                    │  Start  │
                                    └────┬────┘
                                         │
                                         ▼
                    ┌──────────────────────────────────┐
            ┌──────►│        Admin Login Page           │◄──────────────┐
            │       └──────────────────┬────────────────┘               │
            │                          │ Get user Input                 │
   Invalid  │                          ▼                                │
   Input    │                    ╱─────────────╲      ┌──────────────────┐
            └───────────────────╱     Valid     ╲─────┤ Admin Home Page  │
                                ╲     Input      ╱     └──────────┬───────┘
                                 ╲─────────────╱                 │
                                        │                         │
                                        ▼                         ▼
         ┌──────────┬──────────────┬──────────────┬──────────────┬──────────────┐
         ▼          ▼              ▼              ▼              ▼
    ┌────────┐ ┌──────────┐ ┌──────────┐   ┌────────┐   ┌──────────┐
    │  Home  │ │ Products │ │  Orders  │   │  Cart  │   │ Sign Out │
    └────┬───┘ └─────┬────┘ └─────┬────┘   └────┬───┘   └─────┬────┘
         ▼           ▼            ▼             ▼             ▼
```

Home
Change Password
Manage Products
List of users
Search user
Purchase reports

Products:
Men
Women
Products
Add to Cart

Your Orders

Display Cart items
Buy

User Details

End

Algorithm: (User Flow)

1. Start the program.

2. Login into the sporty shoes website using username and password. If the credentials are valid then home page of the application will be displayed. Else it will through a message "**Login Failed, Invalid Credentials**".

Note: Username = tek, password = 123

3. In home page, there are options like

- Home
- Products
- Orders
- Cart
- Sign Out

4.If you click on Products tab then it will display:

- Men, Women(categories)
- Display Products

5.If you click on Men then it will display the men shoes.

6.If you click on Women then it will display the women shoes.

7.Under each object there will an option Add to Cart, if you click on it then the item will be added to cart.

8.If you click on Orders tab then it will display the orders that you have placed.

9.If you click on Cart tab then you can see the products that you have added to the cart. There will be an option buy, if you click on it will display the user details form fill in the details then your order will be placed.

10.If you click on Sign Out tab then it will display the login page.

11.Stop

Algorithm: (Admin Flow)

1. Start the program.

2. Login into the sporty shoes website using username and password. If the credentials are valid then home page of the application will be displayed. Else it will through a message "**Login Failed, Invalid Credentials**".

Note: Username = admin, password = admin

3. In home page, there are options like

- Home
- Products
- Orders
- Cart
- Sign Out

4.If you click on Home tab then it will display the options:

- Change Password
- Manage Products
- List of Users
- Search User
- Purchase Reports

5.If you click on change Password then it will the form, fill the form by giving required details and submit the form the password will be changed.

6.If you click on manage products then it will display:

- Add Product
- Delete Product

7.If you click on Add Product then it will display the form, fill the form by giving required details and click on add then the product will be added.

8.If you click on Delete Product then it will display the form, fill the form by giving required details and click on delete then the product will be deleted.

9.If you click on List of Users then it will display all the users those are signed up.

10.If you click on Search User it will ask an id to search, enter the id and click on search.

11.If you click on Purchase products then it will display the form, select the date and category and submit then the orders will be displayed by filtering.

12.If you click on Products tab then it will display:

- Men, Women(categories)
- Display Products

13.If you click on Men then it will display the men shoes.

14.If you click on Women then it will display the women shoes.

15.Under each object there will an option Add to Cart, if you click on it then the item will be added to cart.

16.If you click on Orders tab then it will display the orders that you have placed.

17.If you click on Cart tab then you can see the products that you have added to the cart. There will be an option buy, if you click on it will display the user details form fill in the details then your order will be placed.

18.If you click on Sign Out tab then it will display the login page.

19.Stop

Core Concepts used in the project:

Classes, Objects, Methods, Data Structures, Exception handling, Collection Framework (ArrayList), Access Modifiers/specifiers, Utility Packages, JSP (Java Server Pages), SpringMVC Framework (model, view, controller), SpingJDBC, Hibernate.

GitHub Repository Link:

https://github.com/Padmini-B/SportyShoes

Conclusion:

The Sporty Shoes e-commerce website helps you to buy the shoes from any location, Instead of visiting the store physically. You can simply open the application by signing in and browse the products of your choice and buy the shoes.