

Project report on

Developing an E-commerce Website for Sporty Shoes.

This document contains sections for:

- [Sprint planning and Task completion](#)
- [Core concepts used in project](#)
- [Flow of the Application.](#)
- [Demonstrating the product capabilities, appearance, and user interactions.](#)
- [Unique Selling Points of the Application](#)
- [Conclusions](#)

The code for this project is hosted at <https://github.com/surekhaitgithub/Newcodingboard.git>

The project is developed by Duggasani Naga Surekha

Sprints planning and Task completion:

The project is planned to be completed in 2 sprint. Tasks assumed to be completed in the sprints are:

- Creating the flow of the application
- Initializing git repository to track changes as development progresses.
- Writing the Java program to fulfill the requirements of the project.
- Testing the Java program with different kinds of User input
- Pushing code to GitHub.
- Creating this specification document highlighting application capabilities, appearance, and user interactions.

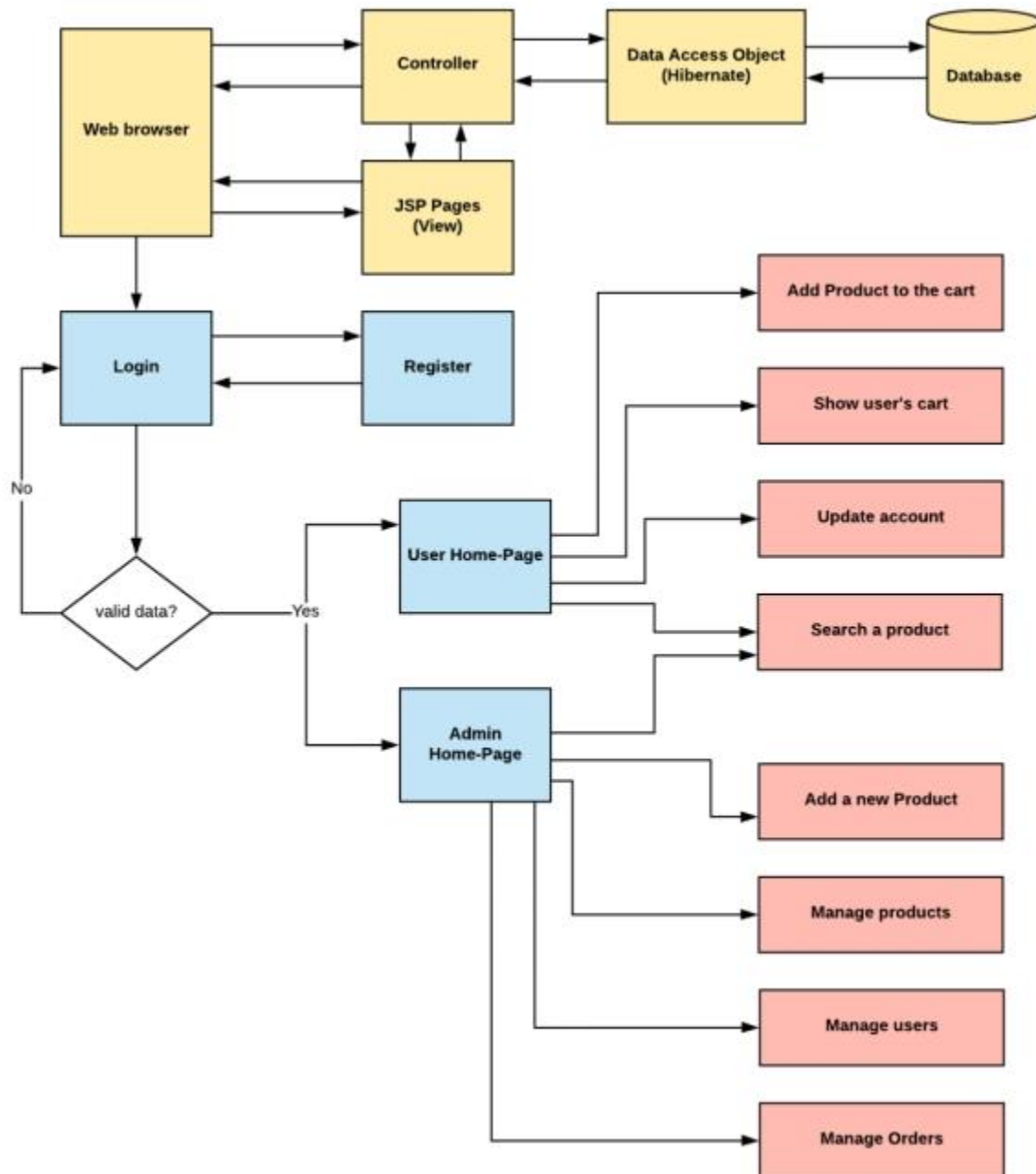
Core concepts used in project:

- Object-Oriented: used to create and model objects for users and their credentials.
- Data Access Object: to abstract and encapsulate all access to the data source.
- Object–Relational Mapping: to map the objects to the database.
- Databases: used to store and retrieve data.
- Data Sources: used to define a set of properties required to identify and access the database.
- Collections: used some collections such arraylist to store collection of data.
- Exception Handling: used to catch problems that arises in the code especially in I/O blocks

Technologies Used:

- Spring MVC: to build web applications as it follows the Model-View-Controller design pattern.
- JSP: to handle the presentation view.
- Hibernate: to simplify the development and the interaction with the database.
- CSS: to format the contents.
- Bootstrap: to use some CSS and JavaScript designs.
- Maven: to manage the project.
- Eclipse: to write and run the code.
- phpMyAdmin: to administrate and manage the database manually.
- Tomcat: to run and deploy servlet application.

Flow of the Application:



Project Users Stories : (Agile and Scrum)

The project is planned to be completed in 2 sprints. Tasks assumed to be completed in the sprint are:

- Creating the flow of the application
- Initializing git repository to track changes as development progresses.
- Writing the Java program to fulfill the requirements of the project.
- Testing the Java program with different kinds of User input
- Pushing code to GitHub.

1) As an admin I can Set up a master list of all the products.

2) As an admin I can Set up a master list of all the users.

3) As an admin I can Set up a master list of all the orders.

4)Manage the products in the store including categorizing them

5) Browse the list of users who have signed up and be able to search users

6) See purchase reports filtered by date and category

Demonstrating the product capabilities, appearance, and user interactions:

To demonstrate the product capabilities, below are the sub-sections configured to highlight appearance and user interactions for the project:

Step 1: Creating a new project in Eclipse

- Open Eclipse
- Go to File -> New -> Project -> Maven Project -> Next.
- Type in any project name and click on “Finish.”
- Select your project and go to File -> New -> Class.

Step 2:

Java files

AdminController.java

HomeController.java

LoginController.java

LoginController.java

OrderDAOImpl.java

ProductDAO.java

ProductDAOImpl.java

UserDAO.java

Order.java

Product.java

User.java

Jsp files

Addproduct.jsp

Left-list.jsp

Login.jsp

ManageOrders.jsp

manageUsers.jsp

manage-products.jsp

myaccount.jsp

mycart.jsp

register.jsp

update-products.jsp

user-home.jsp

CSS files

login.css

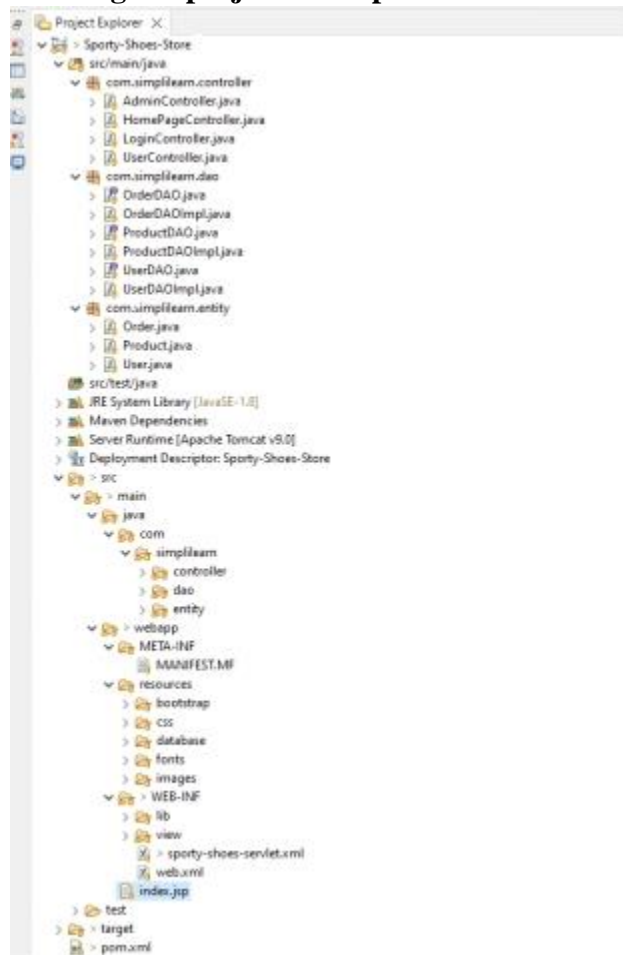
style.css

Shoesdata.sql

All above mentioned file are attached via zip file all these are

Step 3:

1 Creating the project in eclipse.



2 Import the “database\database.sql” file to your database administration tool.

-- phpMyAdmin SQL Dump

-- version 5.1.0

-- <https://www.phpmyadmin.net/>

--

-- Host: 127.0.0.1:3307

-- Generation Time: April 13, 2022 at 03:43 PM

-- Server version: 10.4.18-MariaDB

-- PHP Version: 8.0.3

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";

START TRANSACTION;

SET time_zone = "+00:00";

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;

/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;

/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;

/*!40101 SET NAMES utf8mb4 */;

--

-- Database: `sporty-shoes`

--

--

-- Table structure for table `orders`

--

```
CREATE TABLE `orders` (  
  `id` int(11) NOT NULL,  
  `user_id` int(11) NOT NULL,  
  `product_id` int(11) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

--

-- Dumping data for table `orders`

--

```
INSERT INTO `orders` (`id`, `user_id`, `product_id`) VALUES  
(7, 3, 1),  
(10, 20, 3),  
(11, 20, 1),  
(12, 20, 4);  
  
drop tables orders;
```

--

-- Table structure for table `products`

--

```
CREATE TABLE `products` (  
  `id` int(11) NOT NULL,  
  `name` varchar(50) NOT NULL,  
  `company` varchar(50) NOT NULL,  
  `size` int(11) DEFAULT NULL,  
  `price` double NOT NULL,  
  `image_link` varchar(2555) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

--

-- Dumping data for table `products`

--

```
INSERT INTO `products` (`id`, `name`, `company`, `size`, `price`, `image_link`) VALUES  
(1, 'Reebok Originals', 'Reebok', 34, 654, 'https://i.imgur.com/NYeJGJw.jpg'),  
(2, 'The Puma 750', 'Puma', 24, 543, 'https://i.imgur.com/JzC8UwF.jpg'),  
(3, 'Adidas original', 'Adidas', 45, 678, 'https://imgur.com/0GXitLh.jpg'),  
(4, 'Bata Sk8-Hi Flame', 'Bata', 28, 897, 'https://imgur.com/xa1NmjZ.jpg');  
  
drop tables products;
```

--

-- Table structure for table `users`

--

```
CREATE TABLE `users` (  
  `id` int(11) NOT NULL,  
  `type` int(10) NOT NULL DEFAULT 0,  
  `username` varchar(50) NOT NULL,  
  `password` varchar(50) NOT NULL,  
  `age` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

--

-- Dumping data for table `users`

--

```
INSERT INTO `users` (`id`, `type`, `username`, `password`, `age`) VALUES  
(2, 0, 'Anu', '1234', 24),  
(4, 0, 'anju', '1234', 34),  
(6, 0, 'karthi', '1234', 1),
```

```
(8, 0, 'Sam', '1234', 23),  
(15, 1, 'admin', 'admin', 0),  
(16, 0, 'Hasin', '4242', 24),  
(13, 0, 'Manasa', '12345', 33);  
  
drop tables users;
```

```
--
```

```
-- Indexes for dumped tables
```

```
--
```

```
--
```

```
-- Indexes for table `orders`
```

```
--
```

```
ALTER TABLE `orders`
```

```
  ADD PRIMARY KEY (`id`),
```

```
  ADD KEY `product_id` (`product_id`),
```

```
  ADD KEY `user_id` (`user_id`);
```

```
commit;
```

```
--
```

```
-- Indexes for table `products`
```

```
--
```

```
ALTER TABLE `products`

  ADD PRIMARY KEY (`id`);

commit;


--

-- Indexes for table `users`

--

ALTER TABLE `users`

  ADD PRIMARY KEY (`id`);


--

-- AUTO_INCREMENT for dumped tables

--


--

-- AUTO_INCREMENT for table `orders`

--

ALTER TABLE `orders`

  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=13;

commit;


--

-- AUTO_INCREMENT for table `products`
```

--

ALTER TABLE `products`

MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=8;

commit;

--

-- AUTO_INCREMENT for table `users`

--

ALTER TABLE `users`

MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;

--

-- Constraints for dumped tables

--

--

-- Constraints for table `orders`

--

ALTER TABLE `orders`

ADD CONSTRAINT `product_id` FOREIGN KEY (`product_id`) REFERENCES
`products` (`id`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `user_id` FOREIGN KEY (`user_id`) REFERENCES `users` (`id`)
ON DELETE CASCADE ON UPDATE CASCADE;

COMMIT;

```
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
```

```
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS  
*/;
```

```
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

3. Go to “main\webapp\WEB-INF\sporty-shoes-servlet.xml” file, open it.



4. Edit the database’ properties such as username, password and driverClassName to be suit to your database administration tool.

```
<!-- Step 1: Define Database DataSource / connection pool -->
```

```
<bean id="myDataSource" class="com.mchange.v2.c3p0.ComboPooledDataSource"
```

```
    destroy-method="close">
```

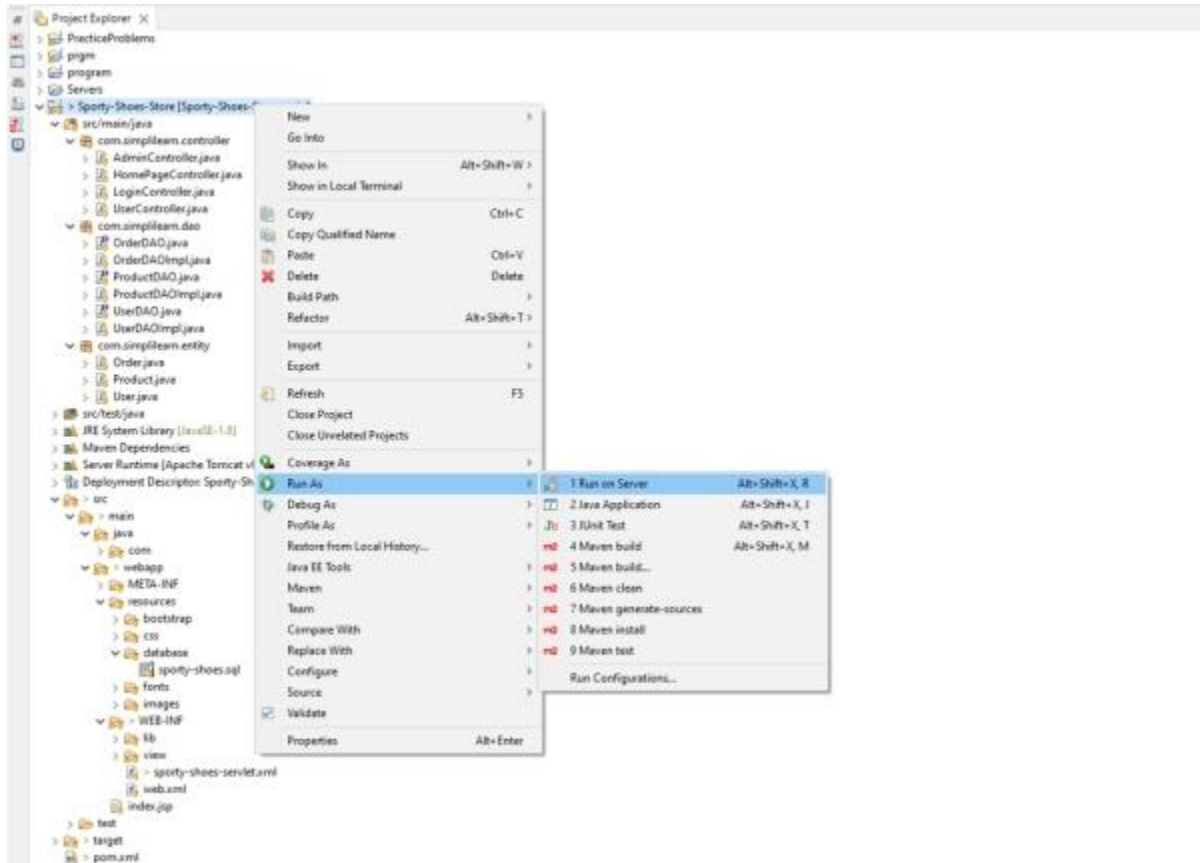
```
    <property name="driverClass" value="com.mysql.cj.jdbc.Driver" />
```

```
    <property name="jdbcUrl" value="jdbc:mysql://localhost:3306/shoesdata" />
```

```
    <property name="user" value="root" />
```

```
<property name="password" value="Surekha@456" />
```

5. Now run program on a server.



6. To login you must enter admin for both username and password.

Screenshots:

1. Register page:

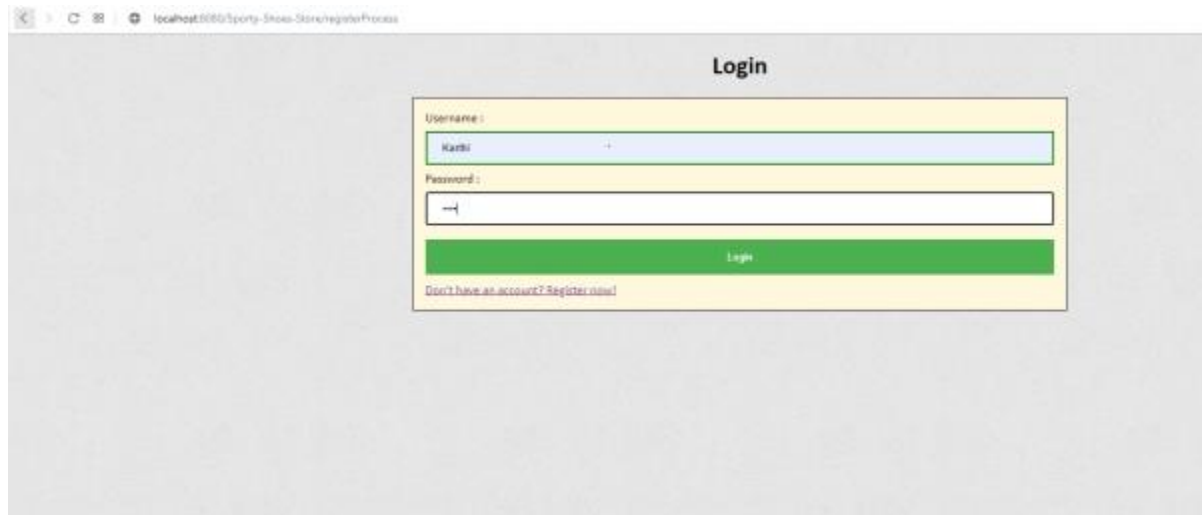


The screenshot shows a web browser window with the address bar displaying 'localhost:5581/Sporty-Shoes-Store/register'. The page title is 'Register'. The form is centered and has a yellow background. It contains three input fields: 'Username' with the value 'Kietti', 'Age' with the value '21', and 'Password' with the value 'mij'. Below the fields is a green button labeled 'Register'.

Field	Value
Username :	Kietti
Age :	21
Password :	mij

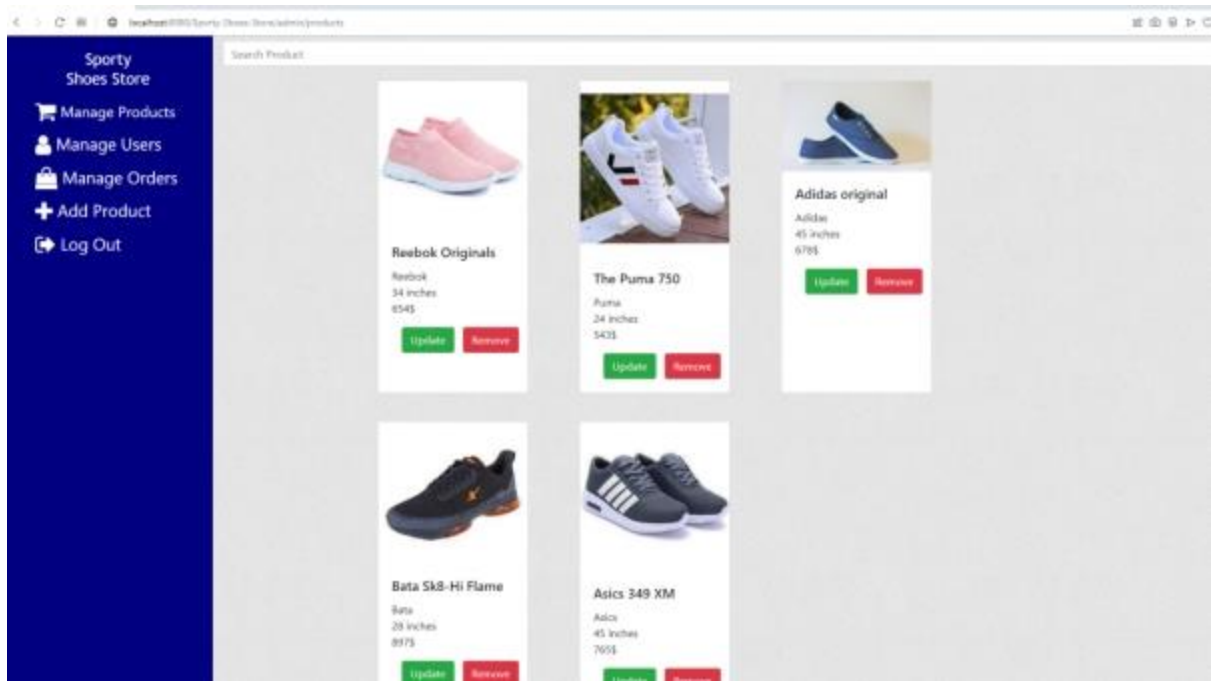
Register

2. Login page :

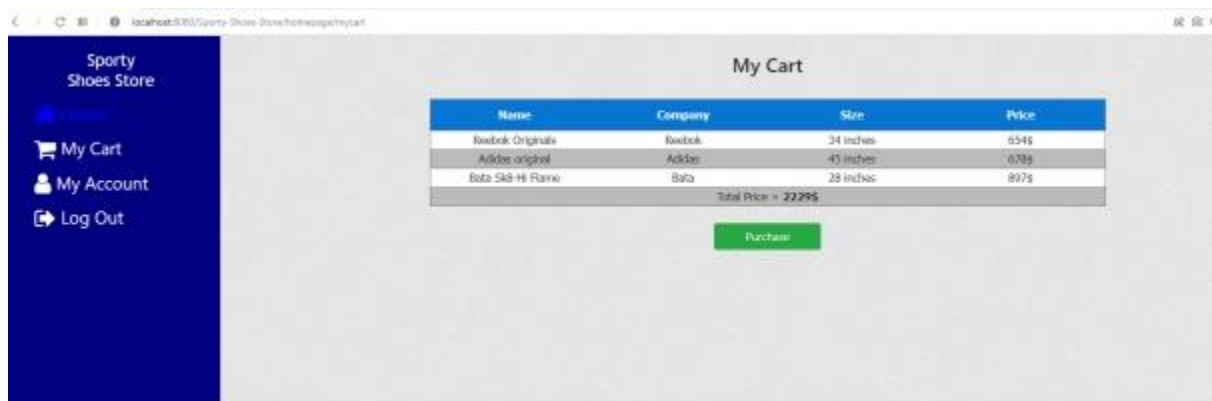


The screenshot shows a web browser window with the address bar displaying 'localhost:8080/Sporty-Store/register/Process'. The main content area has a light gray background. Centered at the top is the title 'Login' in bold black text. Below the title is a yellow rectangular box containing the login form. The form has two input fields: 'Username :' with a light blue border and the text 'Karthi' inside, and 'Password :' with a white border and a password icon (a small square with a diagonal line) inside. Below these fields is a green rectangular button with the text 'Login' in white. At the bottom of the yellow box is a link that says 'Don't have an account? Register now!' in red text.

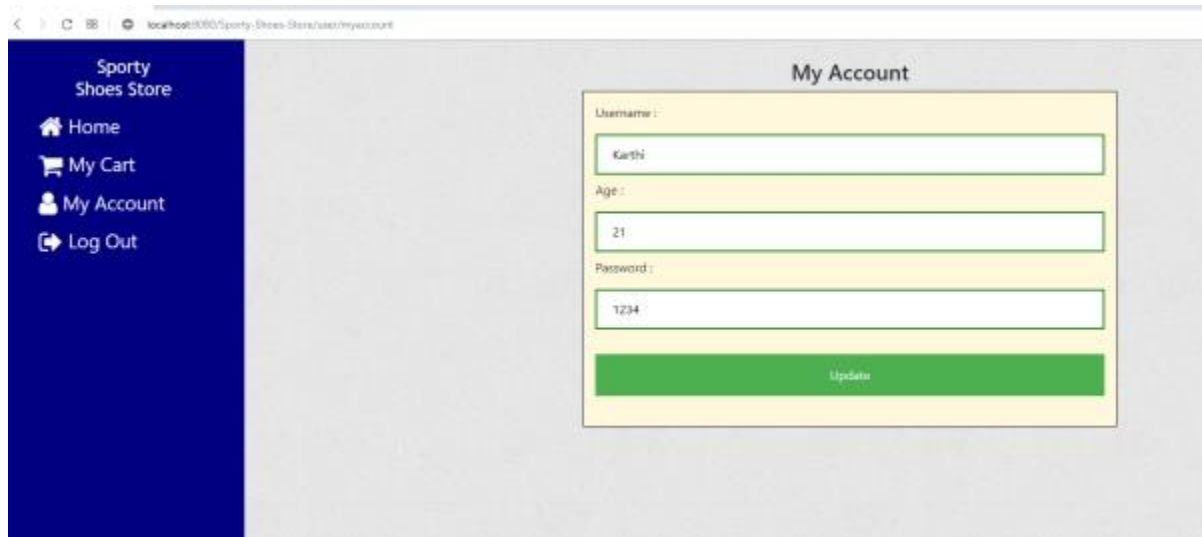
2. Users home page:



3. Users cart page:

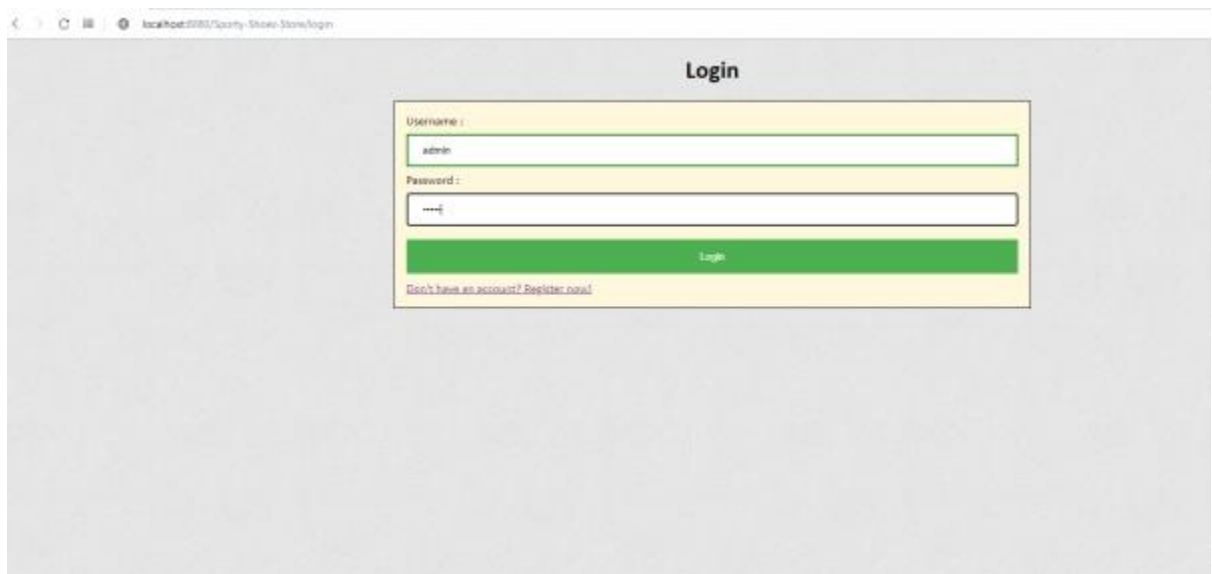


4. Users update account page:



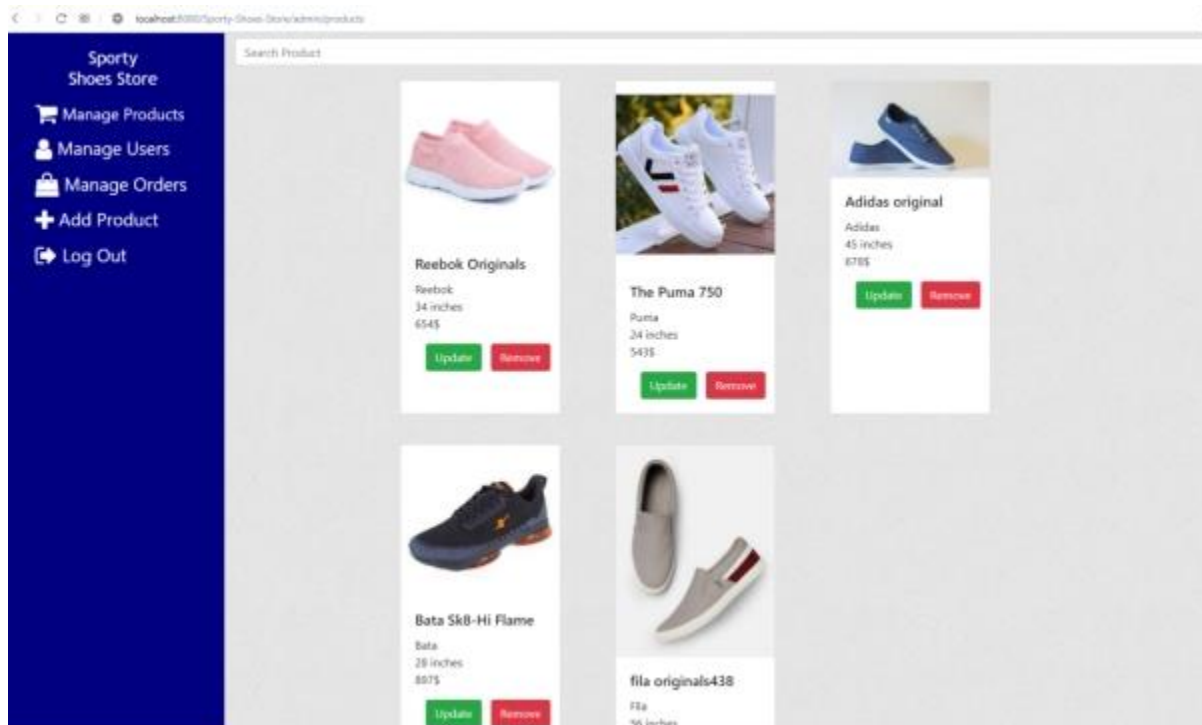
The screenshot shows a web browser window with the address bar displaying 'localhost:3000/Sporty-Shoes-Store/users/myaccount'. On the left, a dark blue sidebar contains the 'Sporty Shoes Store' logo and navigation links: 'Home', 'My Cart', 'My Account', and 'Log Out'. The main content area is titled 'My Account' and features a form with the following fields: 'Username :' with the value 'Karth', 'Age :' with the value '21', and 'Password :' with the value '1234'. A green 'Update' button is positioned at the bottom of the form.

5. Login as admin:



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/Sporty-Shoes-Store/login'. The main content area is titled 'Login' and features a form with the following fields: 'Username :' with the value 'admin' and 'Password :' with masked characters '----'. A green 'Login' button is positioned at the bottom of the form. Below the button, there is a link that reads 'Don't have an account? Register now!'.

6. Admins manage product page:



7. Update products page:

localhost:3030/Sporty-Shoes-Store/admin/addProduct

Sporty Shoes Store

- Manage Products
- Manage Users
- Manage Orders
- + Add Product
- Log Out

Add a New Product

Product Name :

Company :

Size :

Price :

Image Link :

Add


8. Search a product by name :

localhost:3030/Sporty-Shoes-Store/homepage/searchProducts

Sporty Shoes Store

- Manage Products
- Manage Users
- Manage Orders
- + Add Product
- Log Out

puma



The Puma 750
Puma
24 inches
543\$

Update Remove

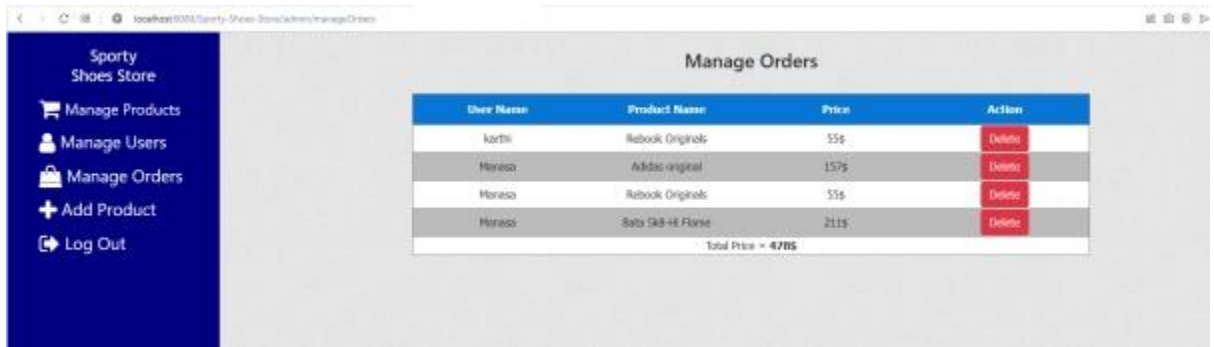
9. Manage users page:



The screenshot displays the 'Manage Users' page. On the left is a dark blue sidebar with the store name 'Sporty Shoes Store' and navigation links: 'Manage Products', 'Manage Users' (active), 'Manage Orders', 'Add Product', and 'Log Out'. The main content area has a light gray background with the title 'Manage Users' at the top. Below the title is a table with three columns: 'User Name', 'Age', and 'Action'.

User Name	Age	Action
Anu	24	Delete
arja	34	Delete
karthi	1	Delete
Sara	23	Delete
Hsain	24	Delete
Harsha	33	Delete

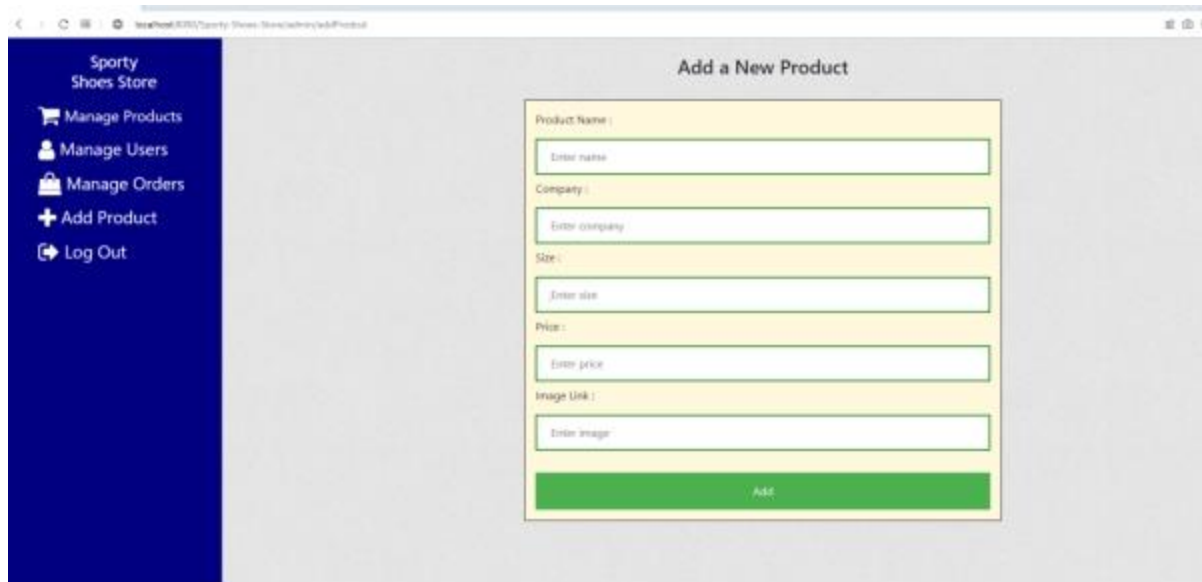
10. Manage orders:



The screenshot displays the 'Manage Orders' page. The sidebar is identical to the previous page. The main content area has a light gray background with the title 'Manage Orders' at the top. Below the title is a table with four columns: 'User Name', 'Product Name', 'Price', and 'Action'.

User Name	Product Name	Price	Action
karthi	Reebok Originals	55\$	Delete
Harsha	Adidas original	157\$	Delete
Harsha	Reebok Originals	55\$	Delete
Harsha	Bata SKB-Hi Flare	211\$	Delete
Total Price = 478\$			

11. Add a new products to the system.



Step 4: Pushing the code to GitHub repository

- Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

- Initialize repository using the following command:

git init

- Add all the files to your git repository using the following command:

git add .

- Commit the changes using the following command:

git commit . -m <commit message>

- Push the files to the folder you initially created using the following command:

git push -u origin master

Unique Selling Points of the Application

- Admin can manage the products in the store including categorizing them.
- Admin can browse the list of users who have signed up and be able to search users.
- Admin can be able to see purchase reports filtered by date and category.

Conclusions

In the program an application has been developed with a duration of two spirits. This application makes handling the data of the sport shoes company. All the data about the name, company, size, price, image link of the product are maintained. The admin can login through a User ID and password and manipulate the data.