**Project and developer details:**

This project named “SportyShoes.com (Web Application)” is to provide an admin portal for easy management of database of products, customers. This project is developed by Srichandan Yerragudi.

**Sprints Planned:**

Four sprints were planned and all the tasks were achieved successfully as explained below sprint-wise

1. **Sprint-I**

* Understood the specifications needed for the application to function as desired and started to prioritize the tasks.
* Homepage was created.

1. **Sprint-II**

* Main controller, model was developed and tested successfully for admin operations.

1. **Sprint-III**

* Worked on admin features such as Managing products and password change.

1. **Sprint-IV**

* Worked on admin feature “sorting purchase reports with date and category”.

**Flowchart of the application:**

Admin Login

Add new Product

Manage Products

Password change

Edit a product

List All Users

Purchase Reports

Delete a Product

Sort according to category and date

Report If found

Error message. If, not found.

**Algorithm of the application:**

Admin Side:

1. Admin enters the username and password.
2. The service connects to the database and retrieves the password against the username
3. If username corresponds to the password, then it validates and proceeds to the next page
4. depending on the decision made to Purchase Reports, List All Users, change password, Manage P. The next page is displayed.
5. To change password, admin needs to click on change password and enter the new password and click on submit. If the password matches and database operation were to be successful. It displays success on the page else unsuccessful.
6. By clicking the button “List All Users” admin will get all the customer details present in the MySQL database.
7. By clicking the button “Manage Products” admin will get all the Products and options to Edit, delete and A link to add new products to the database.
8. By clicking the button “Purchase Reports” admin will redirected to page where the date and category must be selected and the data will be fetched according to the category and date.

**Core Concepts used in the code:**

The following core concepts were used in the following code,

* DBMS
* Spring Boot
* MVC Design pattern
* HTML
* JSP
* Looping Statements
* Conditional Statements
* Try Catch and throw
* Switch case statements
* Type casting
* Generics
* SQL

**GitHub Link:**

* <https://github.com/chan19dot/SimpliLearnPhase3>

**Conclusion:**

The application can further be improved by using CSS, JavaScript and giving the application a much friendly GUI. This will also enhance the visual appearance of the application. Unique selling points of this application would be that it would decrease the human effort of going through the files and finding the customer data or relating them according to the category and to find how many customers does the client have and keep track of inventory at the same time.