**Specification Document**

Sporty Shoes E -Commerce WebSite

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**Use case Definition:**

* As a user of the system, I want to have a main Login Page, For Users and Admin.
* As a user of the system, I want to be able to register users, but not Admins.
* As a user of the system, I want to have a customer homepage with the option to purchase items.
* As a user of the system, I want to have a admin homepage with all the available operations
* As a user of the system, I want to be able to see all the users that have registered into the website
* As a user of the system, I want to to be able to search specific users.
* As a user of the system, I want to be able to add Products into the website
* As a user of the system I want to be able to add Categories into the website
* As a user of the system I want to be able to view all the products in the website and assign a category.
* As a user of the system I want to be able to view all the categories available
* As a user of the system, I want to be able to view all the Orders placed
* As a user ofthe system, I want to be able to filter orders by date and category.

**Github Repository URL:** [**https://github.com/luisadas29/Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802/tree/main/Phase%202**](https://github.com/luisadas29/Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802/tree/main/Phase%202)

Steps taken to upload into github:

* Created a folder : Java FSD Full Stack-Luis Adalberto Silva Soto-26145802 ( With my Full Name and my Employee ID).
* Navigated to the Folder location in the command line, then started GIT -> git init
* The I configured globally the Username and email ID -> git config --global user.email “[luisadas1@hotmail.com](mailto:luisadas1@hotmail.com)” and git config --global user.name “Luis”
* Added remote server (Github) into git -> git remote add origin <https://PersonalToken@github.com/luisadas29/Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802.git>
* I renamed the branch name to Main -> git branch -M main
* Add the file into the staging area and commit them with comment ->git commit -m "Final Project"
* Lastly I pushed the commits to github -> git push --set-upstream origin main

**Sprint Planning**

Two sprints where planned if 2 weeks each.

1)The first Sprint

- Included the Development of the Diagram Flow to understand the intended flow program.

- Decision to create the project using Spring Boot with Spring Data and Thymeleaf.

- Decision on the Bean classes.

- Development of the Bean Classes.

- Spring boot artifacts configuration

- Development of the Repository Classes

- Development of the Service Classes

- Developement of the Controller Classes

2) The Second Sprint

- Development of Thymeleaf for Login and Customer and admin Homepage

- Development of Thymeleaf for Products

- Development of Thymeleaf Categories

- Development of Thymeleaf Orders

- Exception handling was also coded in this sprint.

- Development of the relationship schema used

- Testing of the application was done, finding some errors in the logic of the program and tackling them.

**Concepts used:**

- Spring Data with mySQL

- Spring Boot ini

- Thymeleaf

- DI

- Methods within a class.

- Maven Project creation to manage the Artifacts.

- Exception Hangling

- Sorting techniches and collection framworks : Lists, sortedLists, Array Lists.

**Possible Enhancements to the Product**

- Creating a GUI to the program, with a more modern look.

- Better logic for fetching Orders by date and category