**Specification Document**

Capstone Project

Medicare – Shopping page

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**User Stories Definition :**

1. As a user of the system, I want to have a registration page
2. As a user of the system, I want to create an account once the customer registers, and give 1000£ pounds free registration bonus.
3. As a user of the system, I want to have a login page, which differentiates the Admin and customer
4. As a user of the system, I want to be able to log out from Admin or customer account, and redirects to the home page.
5. As a user of the system, I want the backend to be a Spring boot project.
6. As a user of the system, I want the frontend to be in React JS.
7. As a user of the system, I want that if an incorrect password is inputted while trying to log in a prompt appears saying that password is incorrect please try again.
8. As a user of the system, I want that if an non-existent email is used to log in, a prompt appears saying to try again or to register.
9. As a user of the system, I want a Admin Home page.
10. As a user of the system, I want that within the admin homepage to have the following options: Add Medicines, See All Medicines in the shop and all the orders placed.
11. As a user of the system, I want that within the Admin See all Medicines page to be able to Search by name any medicine, to edit Medicines, to Enable or Disable medicines and to put offers into medicines.
12. As a user of the system, I want that within the Admin see all Orders, to be able to Filter by Name, Order ID or Total Cost.
13. As a user of the system, I want that within the admin see all Orders, to be able to sort the orders by date, Total cost or order ID.
14. As a user of the system, I want a Customer Home Page
15. As a user of the system, I want that within the customer home page to have the following options: See all the products available to purchase, view orders made by that specific customer and Top Up the account.
16. As a user of the system, I want that within the customer see all products page, to be able to add into the basket.
17. As a user of the system, I want that within the customer see all products page, to be able to see the basket, and remove any item if I have second thoughts.
18. As a user of the system, I want that when I checkout in the see all products page, my account is deducted the amount and an Order Summary Page appears with all relevant information.
19. As a user of the system, I want a clear table in the past orders page within the customer home page, with all the orders placed by the specific customer.
20. As a user of the system, I want to be able to top up my account , with a credit card.
21. As a user of the system, I want that the backend using MySQL creates 4 tables in the medicare database, Account, Login, Medicine and orders.
22. As a user of the system, I want to see Grid Layout and CSS improvements in the page.
23. As a user of the system, I want to Create an EC2 instance AWS
24. As a user of the system, I want to have docker installed in the EC2 instance AWS
25. As a user of the system, I want to pull an image of Jenkins with Docker

**Sprint Planning**

Four sprints were planned of 2 weeks each. Each sprint is mapped to a user story and back end development

1)The first Sprint

- Initial scoping of the project.

- Backend Entities definition ( Login, Medicine, Orders and Account)

- Backend entities Implementation of Login, account and medicine.

- Backend Controllers for Login and Account implementation.

- Backend Services for Login and Account implementation.

- Backend Repository for Login and Account Implementation

- Use stories 1-7 In the front end

2)The second Sprint

- Backend Entities Implementation of Orders.

- Backend Helper classes for Checkout and Order response implementation and coding.

- Backend Controller for Medicine Implementation.

- Backend Service for Medicine Implementation.

- Backend Repository for Medicine Implementation.

- User Stories 8-14 implemented In the Front End

3)The third Sprint

- Backend end Entity for Order Implemented

- Troubleshooting Orders.

- Backend Controller for orders.

- Backend Service for Orders

- Backend Repositories for Orders.

- User Stories 15-19 Implemented in the Front End

4)The fourth Sprint

- Exception class created and CorsConfig, as issues where encounter regarding cors.

- Testing of the different components to check any unsuspecting behaviour and the expected behaviour.

- User Stories 20-25 Implemented in Front End.

-EC2 Instance

-Docker installation

-Jenkins Installation

### Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802

**Github Repository URL:** [**https://github.com/luisadas29/Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802/tree/main/Capstone\_Project**](https://github.com/luisadas29/Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802/tree/main/Capstone_Project)

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/Capstone\_Project
* 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 Spring"
* Lastly I pushed the commits to github -> git push --set-upstream origin mai

**Concepts used:**

* Springboot Java
* Rest API
* MySQL
* Filtering
* Sorting
* JPA
* Searching techniques.
* Grid Layout
* Visual Studio
* React JS
* HTML/CSS
* Javascript
* TestNG
* JSON Server
* EC2 Instance
* Docker
* CI/CD
* Jenkins
* Jenkins Pipeline
* Github