

Project Overview

Medicare is a company that supplies medicines and a couple of other healthcare essentials at an affordable price. It was established in 2012 in Delhi, India. It had been serving fine all these years; however, the business analysts noticed a decline in sales since 2017. They found out that online ordering of medicines with companies, such as 100mg and mfine are gaining more profits by eliminating middlemen from the equation.

Technologies used

Technical Components for Front-end Development:

1. IDE: Visual Studio Code
2. Framework: AngularJS
3. Programming Language: TypeScript
4. HTML
5. CSS
6. Bootstrap

Technical Components for Back-end Development:

1. IDE: IntelliJ Idea
2. Framework: Spring or Spring Boot
3. Programming Language: Java
4. Web Server: Embedded Tomcat

Technical Components for Database Management:

1. Database: MySQL

DevOps and production technologies:

1. Git and GitHub
- 2.

Concepts Demonstration:

AngularJS Framework:

AngularJS is a structural framework for dynamic web applications. It lets you use HTML as your template language and lets you extend HTML's syntax to express your application components clearly and succinctly. Its data binding and dependency injection eliminate much of the code you currently have to write. And it all happens within the browser, making it an ideal partner with any server technology.

Spring or Spring Boot Framework:

Spring Boot is an open-source Java-based Framework used to create a micro-Service. It is developed by the Pivotal team and is used to build stand-alone and production ready spring applications.

HTML

HTML stands for Hypertext Markup Language and it is the most widely used language to write Web Pages. Hypertext refers to the way in which Web pages (HTML documents) are linked together. Thus, the link available on a web page are called Hypertext. As its name suggests, HTML is a Markup Language which means we use HTML to simply “markup” a text document with tags that tell a Web Browser how to structure it to display.

CSS

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

Bootstrap

Bootstrap is the most popular front-end framework in the recent time. It is used to design templates for some interface components.

MySQL

MySQL is a fast, easy-to-use RDBMS. The MySQL database server, which manages database and tables, controls user access, and process SQL queries

MySQL-Bench- Benchmark and performance testing tools for the MySQL database server.

To connect Angular front-end application to Spring Boot back-end application REST API is used.

Features of the application:

1. Registration
2. Login
3. Payment gateway
4. Searching
5. Filtering
6. Sorting
7. Dynamic data
8. Responsive and compatible with different devices

Admin Portal:

The admin portal deals with all the backend data generation and product information. The admin user should be able to:

1. Add or remove medicine details from the application to build a rich product line
2. Edit medicine details like name, price, seller, product description, and offers to keep the product information updated with the current prices
3. Enable or disable a medicine product

User Portal:

It deals with the user activities. The end-user should be able to:

1. Sign-in to the application to maintain a record of activities
2. Search for products based on the search keyword
3. Apply filters and sort results based on different medicines to get the best deals
4. Add all the selected medicine items to the cart and customize the purchase at the end
5. Perform a seamless payment gateway
6. Get an order summary details page once the payment is complete

Project Management

Client	SimpliLearn
Consultant	Dakamanbha Ryngkhlem
Application Name	Medicare
Application Phase	Prototype
Project Objective	To develop a healthcare web application with a rich and user-friendly interface
Project Code Duration	15 working Days
Project Start Date	31 st Jan, 2023
Project Finish Date	20 th Feb, 2023

Requirements Development

Planned Start Date	31st Jan, 2023	Actual Start Date	31st Jan, 2023
Planned Finish Date	2nd Feb, 2023	Actual Finish Date	2nd Feb, 2023

Code Development

Planned Start Date	3rd Feb. 2023	Actual Start Date	3rd Feb, 2023
Planned Finish Date	14th Feb, 2023	Actual Finish Date	16th Feb, 2023
Planned Number of Sprints	3	Actual Number of Sprints	3
Planned Sprint Duration	8 working Days	Actual Sprint Duration	10 working Days

Project Documentation

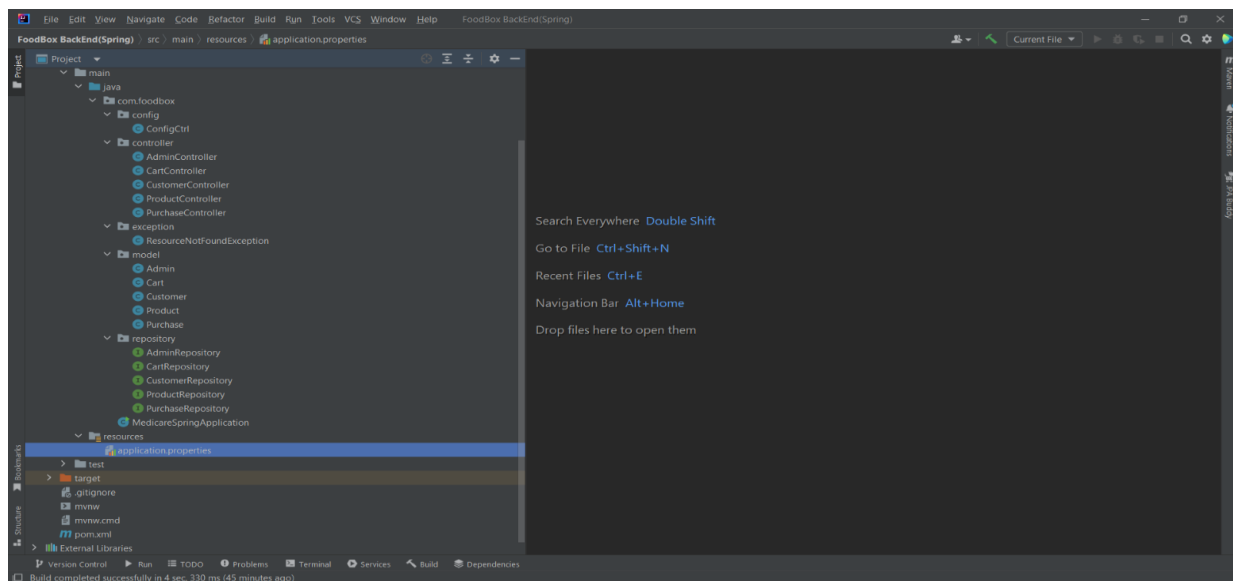
Planned Start Date	14th Feb,2023	Actual Start Date	17th Feb,2023
Planned Finish Date	16th Feb, 2023	Actual Finish Date	20th Feb, 2023

Project Summary

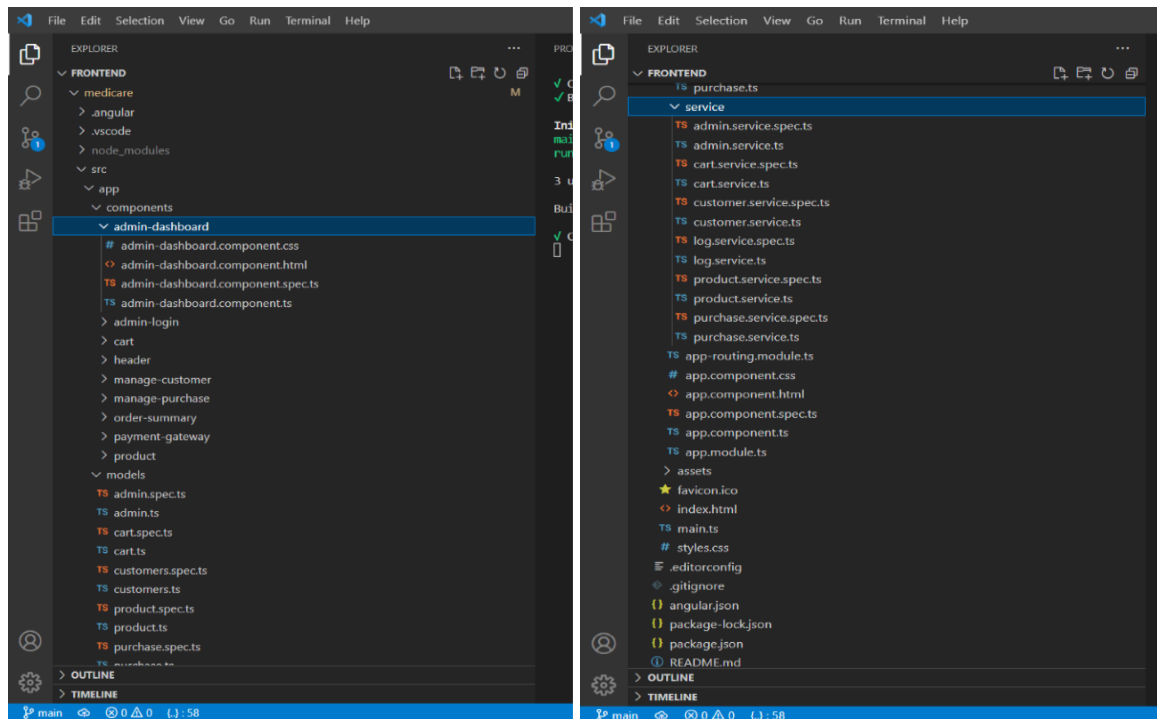
	Planned	Actual
Requirements Development	3 working days	3 working days
Code Development	8 working days	10 working days
Project Documentation	3 working days	2 working days
Total Project Days	14 working days	15 working days

Project Structure

Back-end



Front-End Structure



Back-end Rest API

Customers

1. To get customers by customer-email: <http://localhost:8084/customers/{customerEmail}>
2. To get all customers: <http://localhost:8084/customers>
3. To add User: <http://localhost:8084/customers>
4. To update User details: <http://localhost:8080/update/{id}>
5. To delete a User: <http://localhost:8084/customers/{customerEmail}>
6. To search for a customer by customer-email or customer-name or customer-contact or customer-address: <http://localhost:8084/customers/search/{keyword}>

Products

1. To get products: <http://localhost:8084/products/cust>
2. To add a product: <http://localhost:8084/products>
3. To update a product: <http://localhost:8084/products/{id}>
4. To delete a product: <http://localhost:8084/products/{id}>
5. To get a product by product by id: <http://localhost:8084/products/{id}>
6. To search for a product by a search term: <http://localhost:8084/products/search/{keyword}>
7. To get product by acidity: <http://localhost:8080/products/acidity>
8. To get product by painkillers: <http://localhost:8080/products/painkillers>
9. To get product by cold: <http://localhost:8080/products/cold>
10. To get product by headache: <http://localhost:8080/products/headache>

Cart

1. To add products to cart: <http://localhost:8084/carts>
2. To get products on cart: <http://localhost:8084/carts>
3. To update one item on cart: <http://localhost:8084/carts/add/{id}>
4. To update one item less on cart: <http://localhost:8084/carts/minus/{id}>
5. To delete an item in cart: <http://localhost:8084/carts/{id}>
6. To delete all items in cart: <http://localhost:8084/carts>

Admin

1. To get all products: <http://localhost:8084/admin>

Purchase

1. To get all purchased orders by transaction Id: <http://localhost:8084/purchase>
2. To add all purchase orders to the database: <http://localhost:8084/purchase>
3. To search for a purchase order: <http://localhost:8084/purchase/search/{keyword}>

Front-end Routes

1. Landing page: <http://localhost:4200/products>
2. Cart-page: <http://localhost:4200/cart>
3. Admin login page: <http://localhost:4200/admin>
4. Admin dash-board page: <http://localhost:4200/admin-dashboard>
5. Manage Customer page: <http://localhost:4200/manageCustomer>
6. Manage Purchase page: <http://localhost:4200/managePurchase>
7. Order Summary page: <http://localhost:4200/orderSummary>
8. Payment Gateway page: <http://localhost:4200/paymentGateway>

GitHub Repository

<https://github.com/manbha03/CapStoneProject-Full-Stack-Java-Developer>