

Project Report

Group P8_01

Vision Statement

Our Mission

At the heart of SuperPrice lies a clear and unwavering mission: to revolutionise your grocery shopping experience. We aim to empower you with the tools and information you need to make informed decisions, find the lowest prices, and enjoy hassle-free delivery - all while saving you valuable time and hard-earned money.

What We Offer

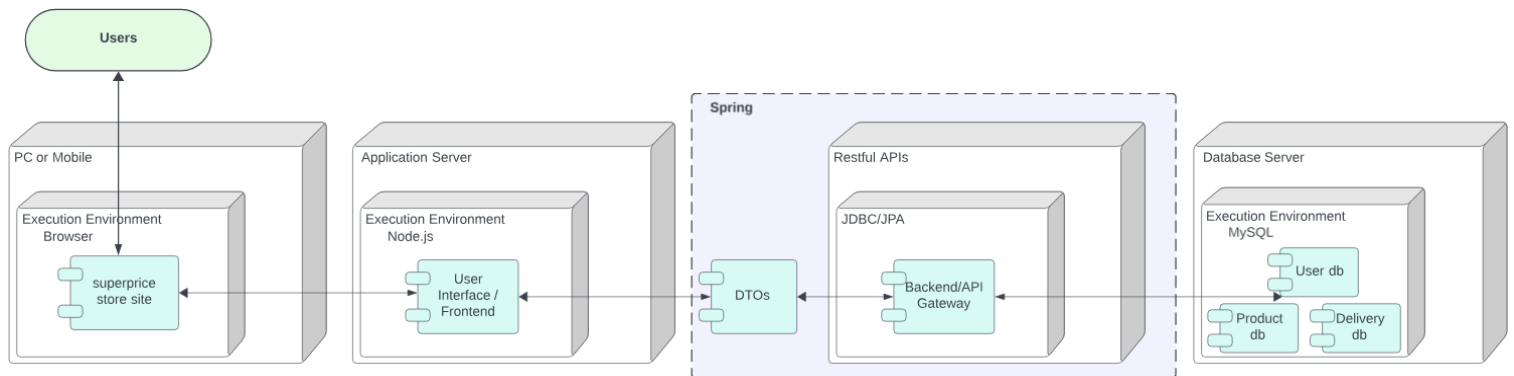
SuperPrice is more than just an app; it's the ultimate shopping companion that brings convenience and savings directly to your fingertips.

- **Price Comparison:** With SuperPrice, you can effortlessly compare prices from various local supermarkets and stores. No more hunting for the best deals; we do that for you.
- **Extensive Product Database:** Gain access to a vast database of products, ensuring you have a comprehensive selection to choose from. Whether you're searching for daily essentials, gourmet treats, or specialty items, SuperPrice has it all.
- **Real-Time Data:** We pride ourselves on providing accurate and up-to-the-minute information. SuperPrice constantly updates product prices and availability, guaranteeing you the most current data for the best deals - giving you the most informed shopping experience.
- **Seamless Delivery:** Say goodbye to long queues and heavy grocery bags. SuperPrice offers seamless delivery arrangements, ensuring your purchases arrive at your doorstep at your convenience.

Our Vision

Our vision is to transform the way you shop for groceries, making it not only as efficient as possible, but also enjoyable. SuperPrice envisions a world where you can make smart shopping decisions effortlessly, where the savings come to you so you never overpay for your groceries, a world where you and your time are both valued and respected.

Final System Architecture



For a look at a bigger version of our final system architecture diagram:

https://lucid.app/lucidchart/50c197b4-88ab-4d0c-b56e-f7a4e2e338a1/edit?viewport_1oc=-11%2C-413%2C1977%2C1789%2C0_0&invitationId=inv_d8932113-89f8-4c3d-a9d7-f217b9b4ecdf

Refactoring

Notifications - As the classes used were small in quantity and well-structured there has been no obvious code smells produced. There is no immediate requirement for refactoring or redesigning the microservice implementation.

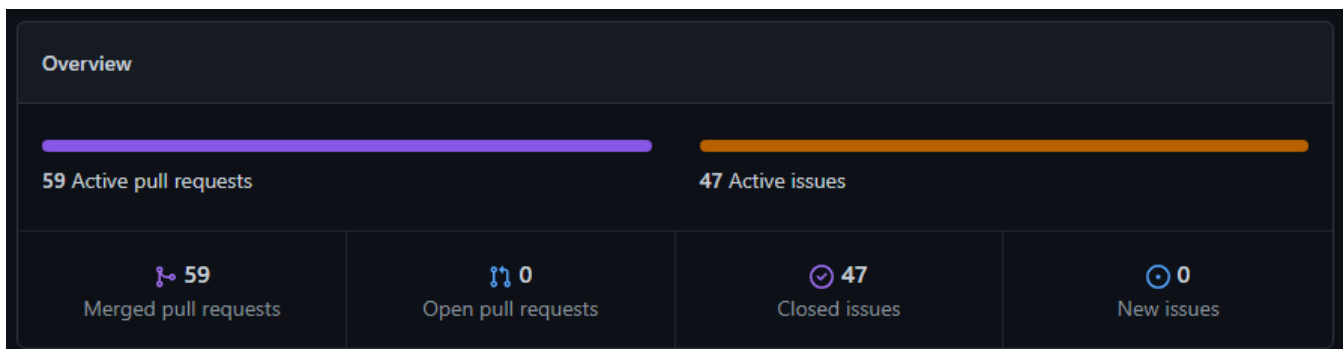
Users - This microservice could improve its data validation by only accepting a userRegistration when input fields are populated with expected data. For enhanced security login events and attempts could be logged in a database.

Deliveries - The controller methods could benefit from more robust responses which handle errors and exceptions in scenarios where methods could fail.

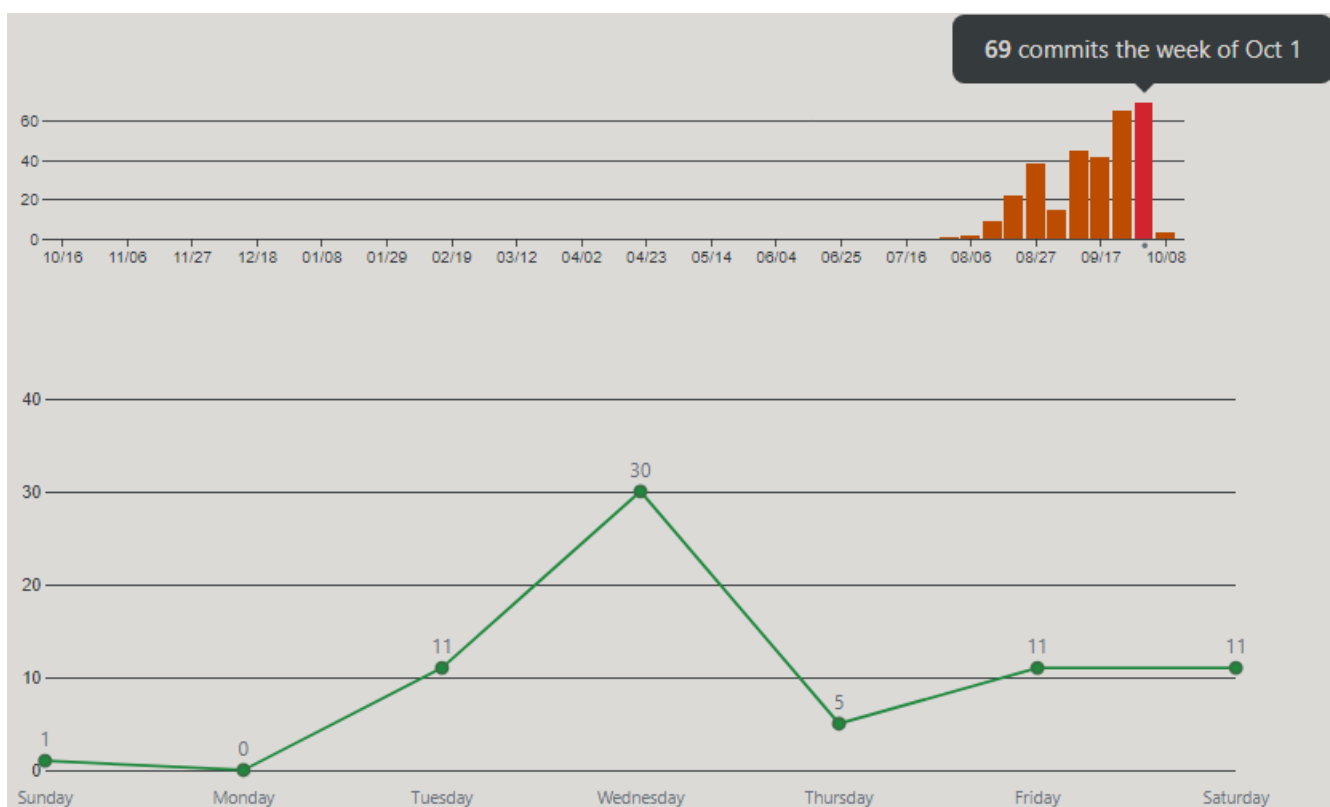
Products - This is easily the most involved microservice consisting of many more methods, DTOs and communicates with other microservices. As there are many use cases in the controller and service classes, the code could be refactored to improve readability by utilising separate classes to handle HTTP requests.

Git Overview

The overview of our repo for the period of 7th September, 2023 - 7th October, 2023:



The provided insights of our repo state that “excluding merges, 8 authors have pushed 224 commits to main and 300 commits to all branches. On main, 185 files have changed and there have been 6,515 additions and 1,155 deletions.”



In the diagrams provided, the steady incline and commit activity is clear to see as each of our project tickets are implemented and completed towards the deadline of our project.

Throughout each week, our commits were often highest on Wednesday. This was because we wanted to ensure our progress was as clear and current as possible when shown to the product owner during our weekly SCRUM with them.

Each of our branches were merged with main using continuous integration and automated building for each push. This was only done once our feature/chore/task was completed and running without errors in its branch and on our local machines.

Scrum Process

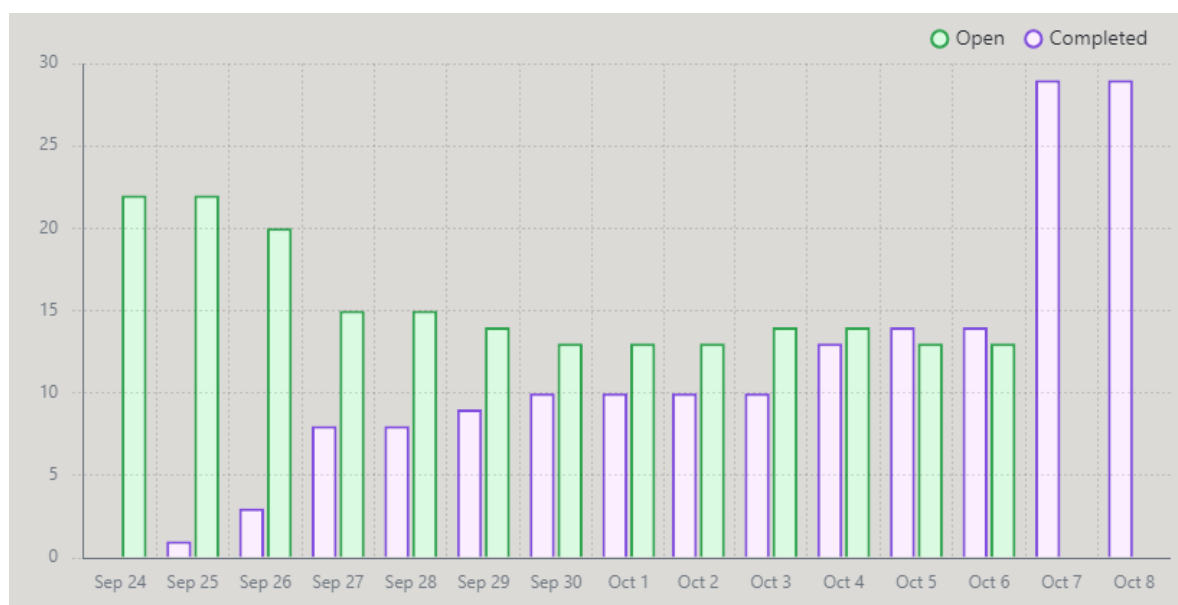
Our team made the effort to have a meeting 4-5 times each week. While some meetings required more time and had longer agendas, it was important for us to understand how each member of our team was progressing. As each member of our team was approaching this project with varying skills and knowledge, it was important for us to ensure each member of the team felt supported no matter their challenges. This also ensured that the members who were able to provide help were able to assist as soon as it was required/they were able so that our project could maintain steady and positive progress.

Our scrum master was Ledy. Ledy ensured our meetings stayed on track and followed an agenda. She ensured each member of the team had the opportunity to provide a progress update. We were given space to state any challenges we were having, as well as any steps we had taken or progress made for overcoming these challenges. Each team member was able to ask for help where we felt we might need it, or to offer help or possible solutions to other members of the team.

Sprint Velocity Charts

Unfortunately, during Sprint 1 we did not close tickets properly, so we do not have an accurate velocity chart for sprint 1.

Sprint 2 Velocity Chart



Deployment Pipeline

