

# **Software Engineering Process and Tools**

## **Project Report - SuperPrice Application**

### **Team Project Group P8-07**

#### **Vision Statement for SuperPrice Application**

In today's fast-paced world, consumers are constantly seeking ways to optimize their time, money, and overall shopping experience. The SuperPrice application emerges as a beacon of convenience and efficiency in the realm of grocery shopping. Our vision is to revolutionize the way individuals approach their grocery needs, by providing them with a powerful tool that not only ensures they get the best value for their money but also simplifies the entire shopping process.

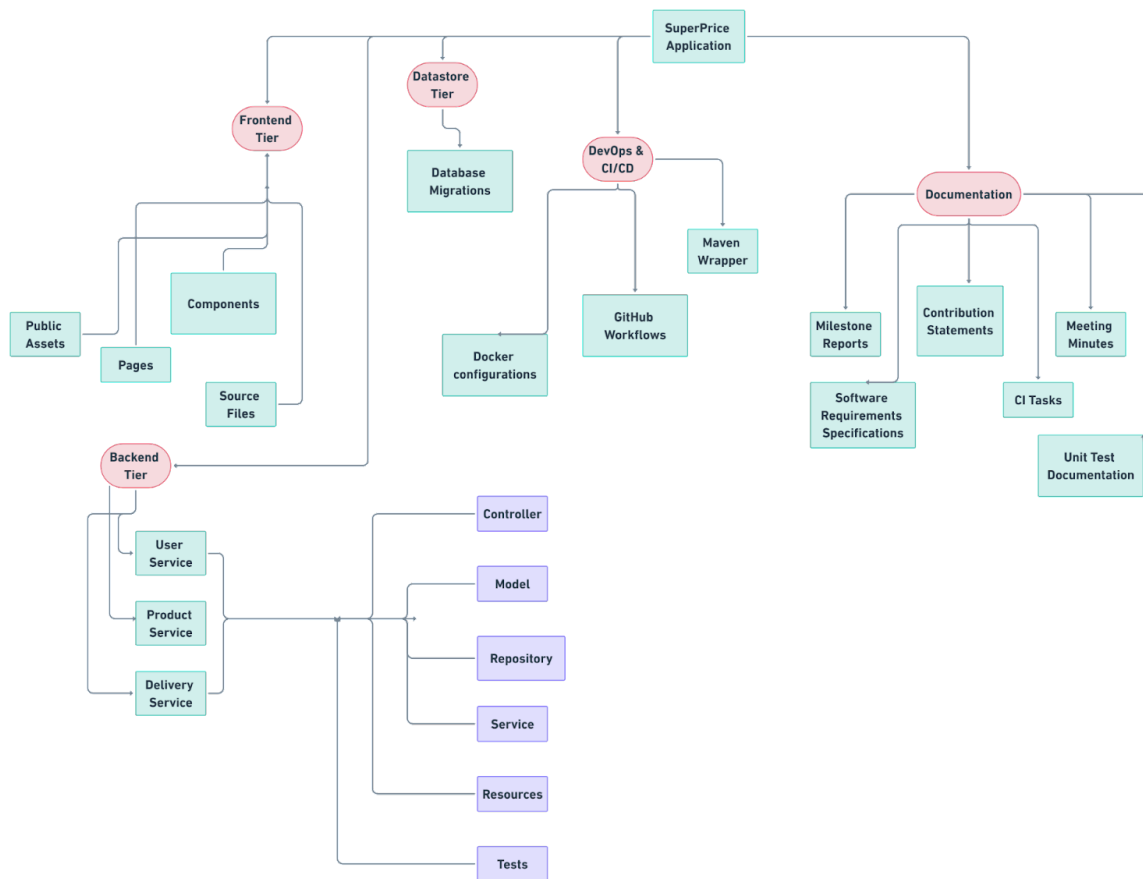
SuperPrice is not just another shopping application; it's a commitment to enhancing the quality of life for its users. By integrating with various local supermarkets and stores, we aim to offer a comprehensive platform where users can effortlessly compare product prices in real-time. This ensures that our users always have access to the most competitive prices in the market, allowing them to make informed decisions and maximize their savings.

Furthermore, the seamless delivery organization feature of SuperPrice ensures that users can enjoy the luxury of having their groceries delivered right to their doorstep, tailored to their preferred time slots. This not only saves time but also reduces the stress and hassle associated with traditional grocery shopping.

Security is paramount in the digital age, and SuperPrice recognizes the importance of safeguarding user information and actions. Our application mandates users to log in before they can add items to their cart or proceed to checkout. This not only ensures the safety and integrity of user transactions but also provides a personalized shopping experience.

The inclusion of user ratings adds a layer of trust and community-driven insights to the shopping experience. With SuperPrice, users are not just shopping; they are part of a community that values transparency, trust, and mutual benefit.

In essence, SuperPrice is more than just an application; it's a movement towards smarter, more efficient, and community-driven grocery shopping. Our vision is to make SuperPrice the go-to platform for all grocery shopping needs, ensuring value, convenience, security, and a superior user experience for everyone.



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## Github Overview:

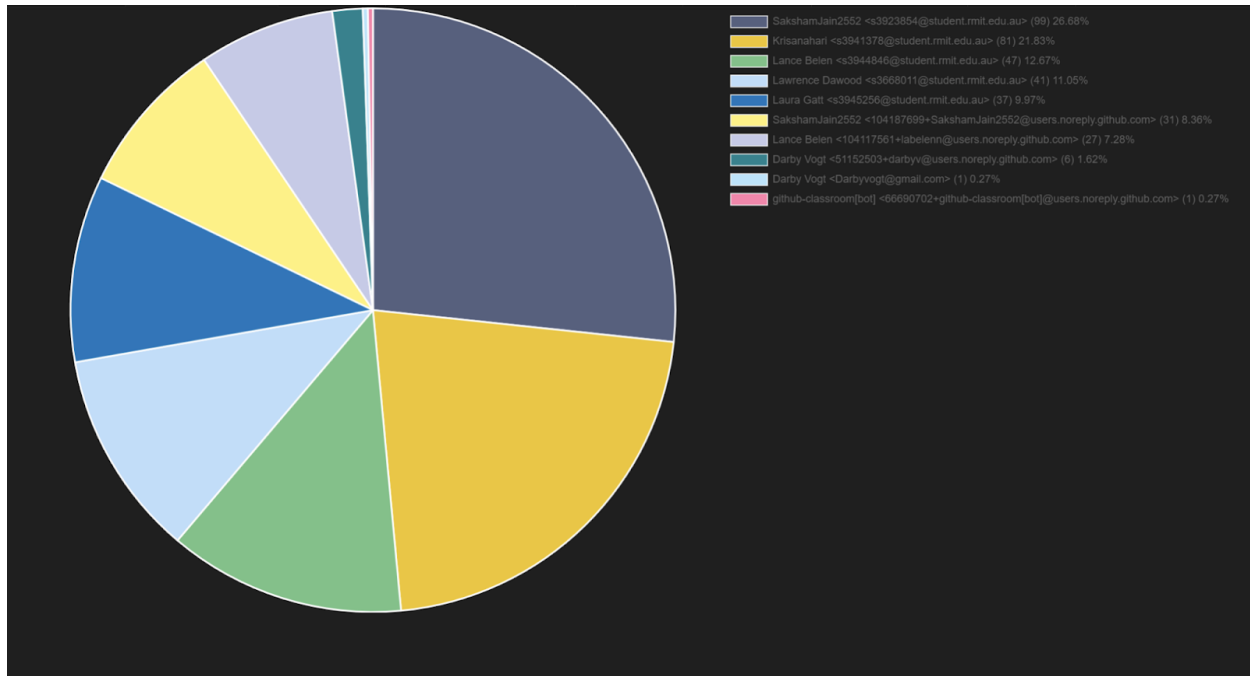
### 1. **git shortlog -s -n**

```
>>
127 SakshamJain2552
73 Krisanahari
66 Lance Belen
41 Lawrence Dawood
24 Laura Gatt
7 Darby Vogt
1 github-classroom[bot]
```

### **git branch -a**

```
NavFooterBar
breadcrumb
cart-page
checkout-page
* develop
display-products-components
docker-frontend
```

main  
orders-page  
product-details-webpage  
product-images  
sign-in-page  
Signup  
user details  
update  
update-package  
remotes/origin/HEAD -> origin/main  
remotes/origin/NavFooterBar  
remotes/origin/breadcrumb  
remotes/origin/cart-page  
remotes/origin/checkout-page  
remotes/origin/database-reconfig  
remotes/origin/database\_config  
remotes/origin/delivery-service  
remotes/origin/delivery-service-feature/delivery-details  
remotes/origin/delivery-service-feature/set-delivery  
remotes/origin/develop  
remotes/origin/display-products-components  
remotes/origin/docker-frontend  
remotes/origin/feature/deliverydateandtime  
remotes/origin/feature/detailed-product-information  
remotes/origin/hari  
remotes/origin/lance  
remotes/origin/main  
remotes/origin/orders-page  
remotes/origin/product-details-webpage  
remotes/origin/product-images  
remotes/origin/product-service  
remotes/origin/sign-in-page  
remotes/origin/signup  
remotes/origin/update  
remotes/origin/user-service  
remotes/origin/user-service-feature/cart  
remotes/origin/user-service-feature/cart-delete  
remotes/origin/user-service-feature/cart-read  
remotes/origin/user-service-feature/notifications  
remotes/origin/user-service-feature/signin  
remotes/origin/user-service-feature/signup  
remotes/origin/user-service-feature/user.details  
remotes/origin/user-service-feautre/cart-update  
remotes/origin/userdetails (END)



## 2. Deployment Pipeline Setup for Team Group-P8-07

Trigger:

The pipeline is triggered on push events to the following branches:

main  
develop  
user-service  
product-service  
delivery-service

Jobs:

### a. Build Backend - Delivery Service:

- Environment: Ubuntu-latest
- Steps:
  1. Checkout code from the repository.
  2. Set up JDK 17 using Temurin distribution.
  3. Grant execute permission to Maven Wrapper (mvnw) in the Backend/delivery-service directory.
  4. Build the delivery service using Maven in the Backend/delivery-service directory.

### b. Build Backend - Product Service:

- Environment: Ubuntu-latest
- Steps:
  1. Checkout code from the repository.
  2. Set up JDK 17 using Temurin distribution.

3. Grant execute permission to Maven Wrapper (mvnw) in the Backend/product-service directory.
4. Build the product service using Maven in the Backend/product-service directory.

c. Build Backend - User Service:

- Environment: Ubuntu-latest

- Steps:

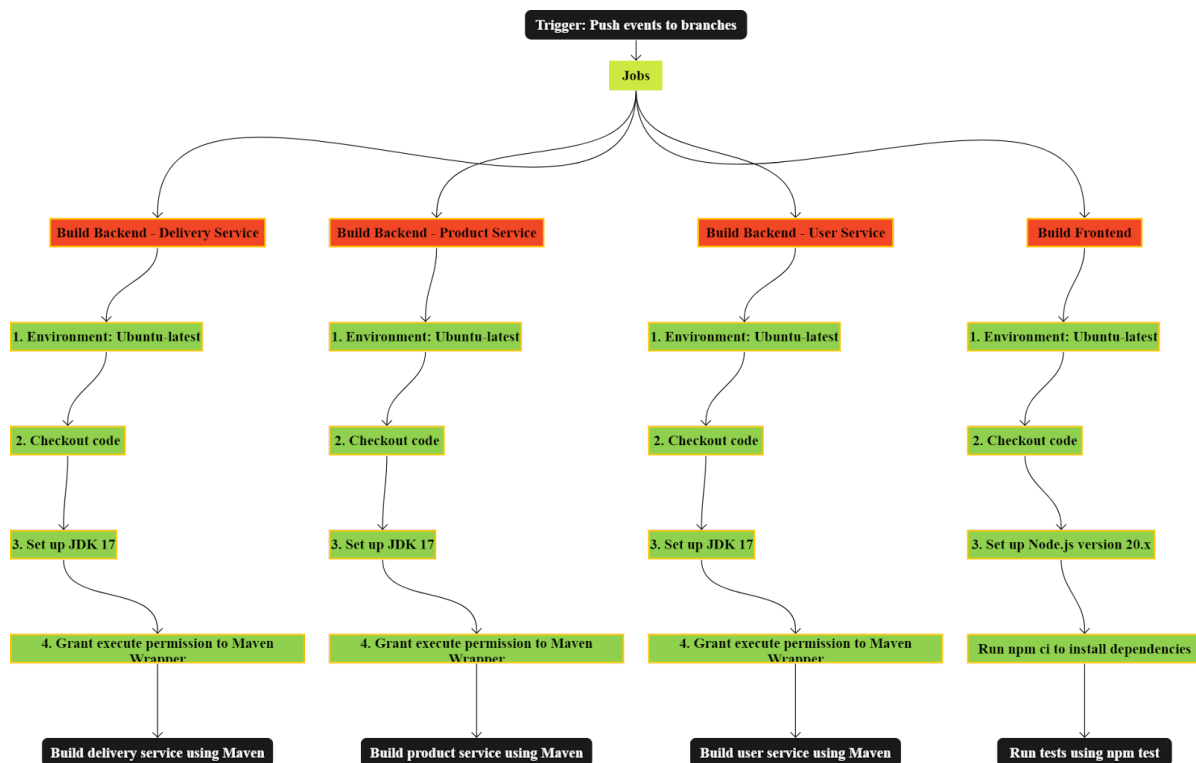
1. Checkout code from the repository.
2. Set up JDK 17 using Temurin distribution.
3. Grant execute permission to Maven Wrapper (mvnw) in the Backend/user-service directory.
4. Build the user service using Maven in the Backend/user-service directory.

d. Build Frontend:

- Environment: Ubuntu-latest

- Steps:

1. Checkout code from the repository.
2. Set up Node.js version 20.x.
3. Run npm ci in the frontend directory to install dependencies.
4. Run tests using npm test in the frontend directory.



## Scrum Process Description:

In our Scrum process, we've built a close-knit and collaborative approach to managing our projects. We organize meetings every week, usually 2 to 3 times, to ensure our team is aligned, our plans are clear, and any hurdles are promptly addressed. Our Scrum Master, Lawrence Dawood, plays a vital role in facilitating and guiding these meetings. Here's how our Scrum process works:

1. **Regular Weekly Meetings:** We get together as a team every week, gathering 2 to 3 times to ensure everyone is on the same page. These regular meetings help build a sense of teamwork and shared responsibility.
2. **Weekly Planning:** At the start of each week, we go over our project plan. This step includes reviewing the current tasks, discussing our sprint goals, and confirming our overall project timeline. It's a way for us to ensure we're moving in the right direction.
3. **Setting Sprint Goals:** During these meetings, we set clear, achievable goals for the upcoming week and the current sprint. These goals act as a guiding star, helping us prioritize our work and stay focused on our project's objectives.
4. **Task Allocation:** We discuss how tasks are assigned among the team members. This transparent process ensures that everyone knows their responsibilities and can contribute effectively to the sprint.
5. **Execution Order:** We discuss the sequence in which we'll tackle tasks. Deciding the most efficient order helps us maximize our productivity and keeps the project flowing smoothly.
6. **Feature Implementation:** We dive into the details of what needs to be implemented. This part of our discussion includes clarifying requirements, specifications, and addressing any changes or new information.
7. **Addressing Blockages:** If anyone runs into obstacles that are holding them back, we discuss these challenges openly. This open dialogue enables us to come up with solutions, offer support, and keep things moving forward.
8. **Mutual Assistance:** Collaboration and teamwork are at the heart of our Scrum process. We've created a culture where helping each other, sharing knowledge, and providing support is the norm. This spirit of collaboration strengthens our team's ability to overcome obstacles and deliver high-quality results.

Our Scrum process is all about keeping the team united, motivated, and responsive to the evolving needs of our projects. We value open communication, continuous improvement, and a shared commitment to delivering high-quality work.