Planning

The project course has been spanning over approximately two-three weeks from 18/05-2022 to 01/06-2022. During this time we have chosen to divide it into sprints with a duration of up to a week. This means that we have gone through two to three sprints throughout the course. This has been done as we in the group have previously worked with sprints and found it beneficial for the process. In addition, we have chosen to work agile in the form of project management using scrum and agile development methods from extreme programming. Early in the process we chose to divide the workload by dividing ourselves into groups of two, where Magdalena Wawrzak and Jean-Poul Leth-Møller have focused on Postgres and Redis. Allan Simonsen has been focusing on Neo4j while Nina Lisakowski has focused on MongoDB.

Use cases and diagram

Use cases have been used to identify our actors who we believe will play a major role in the use of our system.

Usecases

Actor: Admin

Use cases:
View and monitor log data
Create a user
Find a user
View all couriers
View all customers
View all orders
View all restaurants
Login

Actor: Courier

Use cases:
Receive order
Complete order
Login

Actor: Customer

Use cases:	Create a user Create an order View orders made Lookup restaurants Login
Actor:	Restaurant
Use cases:	View all restaurant orders View all orders by a customer Make order ready for pickup
Supporting actors:	Internal API's (services) Document database Graph database Key:value database Relational database
Use cases:	Creation of microservice architecture Transport of data Data manipulation Data storage

Spikes:
In addition to use cases, we in the group have chosen to use spikes to set aside time to get acquainted with new technology. The spike time was used to study security packages in Spring Boot and to further understand cache and expire functionality in Redis.

Diagrams

Admin diagram:

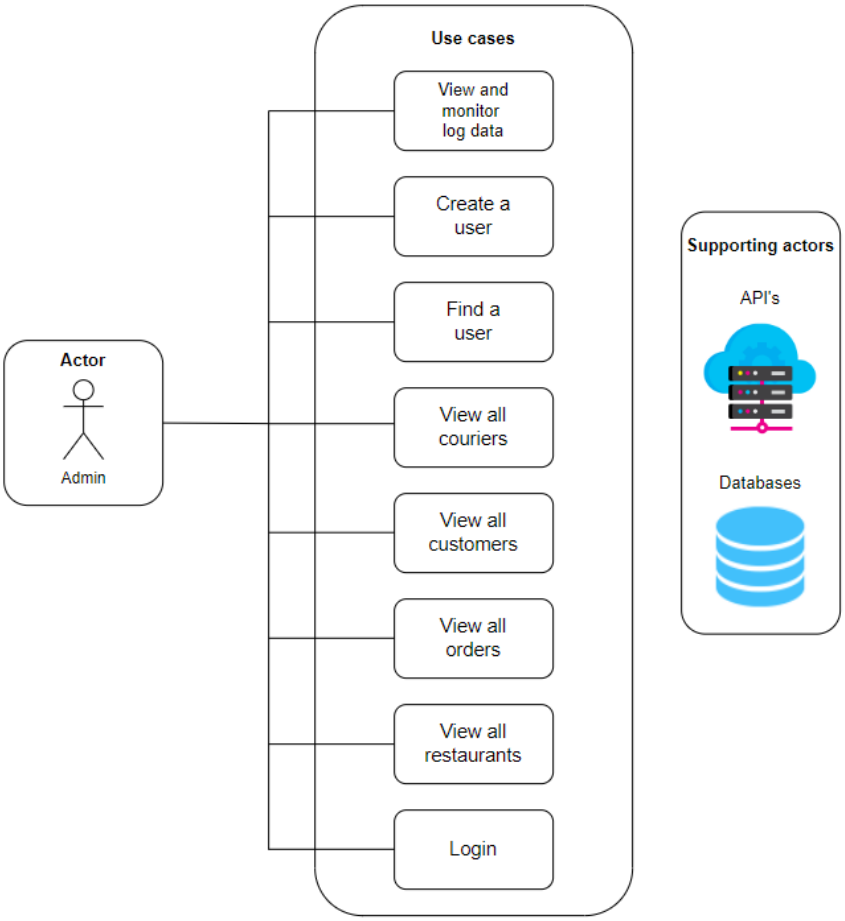

Figure 1: Admin diagram

Courier diagram:

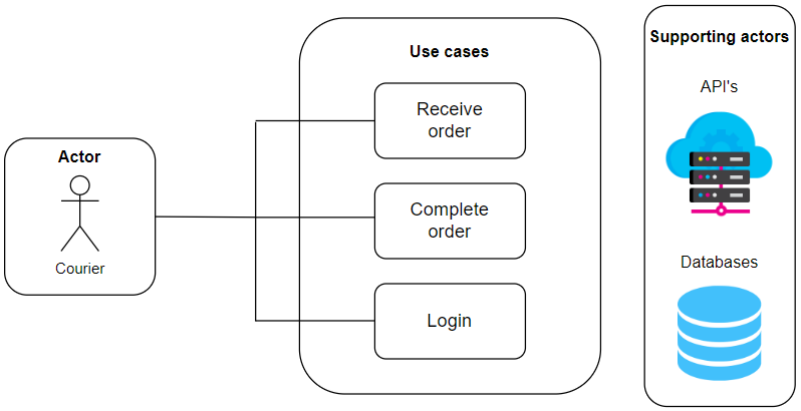

Figure 2: Courier diagram

Customer diagram:

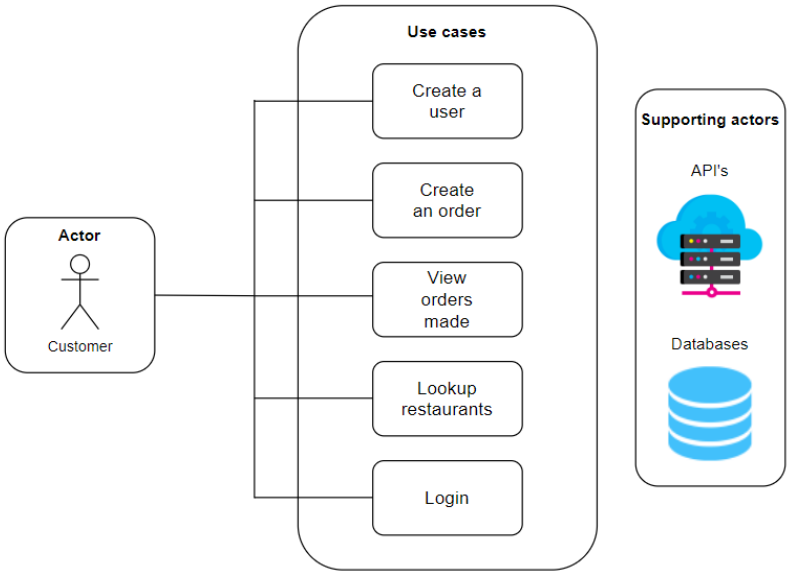

Figure 3: Customer diagram

Restaurant diagram:

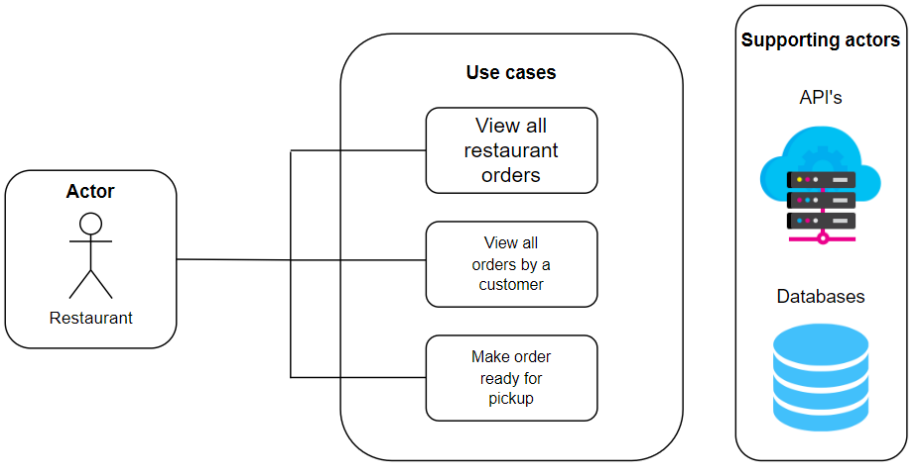

Figure 4: Restaurant diagram