

Nonfunctional Requirements

Modular

The product can be extended with extra functionalities later.

API

The system can be easily integrated with other systems.

Microservices

The system is structured as at least two microservices, to improve scalability.

Java

The program should be written in Java 11.

UI

The system should not have a GUI, but rather be communicated with through endpoints.

Frameworks

The system must be built with Spring Boot and Gradle.

Authentication

As a user, when I log into the system, my credentials are authenticated to ensure the safety of my data.

Must Haves

Making an Order

As a customer, I can make an order for a pizza or set of pizzas and specify which store I order from.

Verifying an Order

As a customer I don't want to be able to add pizzas and toppings that don't exist to my order.

Sending an Order

As a customer, after making an order, I can send the order to the store.

Time

As a customer, I have to say when I want to get my pizza in order for it to be ready when I arrive.

Price

As a customer, I can see the total price of my order when the order is listed.

View Pizzas

As a customer, I want to be able to view all the default pizzas that are on the menu.

View Toppings

As a customer I want to be able to see all available toppings and select some of them for my pizza

Register

As a user, I can register with the system so that my orders can be placed

Login

As a user, I can log in with a personal ID and password so that I can access the ordering system. I can also change my password.

Customer Viewing Orders

As a customer, I can view orders that I have already sent, with their corresponding price.

Should Haves

Manager Viewing Orders

As a manager, I can view all the currently placed orders in the system.

Shop Owner Viewing Orders

As a shop owner, I can view all the currently placed orders in the system for a given store.

Notifications

As a store, I want to be notified when a customer creates/pays for an order, and when a customer cancels an order

View Stores

As a customer, I can select the stores where I can pick my pizza up from.

Custom pizzas

As a customer, I should have an option to add default pizza toppings to customize my order.

Editing an order

As a customer, I should be able to edit the pizzas currently on my order.

Canceling an order

As a customer, I should be able to cancel the pizzas currently on my order.

Manager Cancellation

As a manager, I want to be able to cancel any of the currently placed orders and have it notify the customer of the cancellation.

Customer Cancellation

As a customer, I can cancel my order altogether if I change my mind and don't want pizza any more. I can cancel their order up to half an hour before their selected time, and the corresponding store will be notified.

Could Haves

Allergens

As a customer, I want an option to request the list of pizzas that don't contain my allergens.

Set Allergens

As a customer, I want to set the allergens that I have.

Alert allergies for

As a customer, I want the app to notify me when a pizza I order contains the allergens that I have listed.

Coupons - Buy One, Get One Free

As a customer, I want to be able to type in the activation key for a coupon with my order to allow myself to buy one pizza and get one free.

Coupons - Discount

As a customer, I want to be able to type in the activation key for a coupon with my order to allow myself to get X% off of my order.

Coupons - Cheapest Applied

As a customer, when I enter several coupon codes, I want only the cheapest one to be applied.

Coupons - Expiration

As a customer, when I enter a coupon, if it has expired, I want to be notified and the coupon will not be applied.

Sign in as Admin

As an owner of the store, I want to be able to sign in as an admin.

Store Admin Endpoint

As an owner of the store, I want to be allowed to add coupons and pizzas to the ordering system.

Creating Coupons

As an owner of the store or a regional manager, I want to be able to add a coupon code that can be accessed by users using an activation code.

Creating Pizzas in Menu

As a manager of all stores, I want to be able to create new pizzas.

Will Not Have

Different Menu for Each Store

Each store will have the same menu, meaning that certain stores do not have different pizzas from other stores.