Sprint Retrospective, Iteration # 1

*This is the first programming-based sprint_____

User Story	Task	Task Assigned To	Estimated Effort per Task *(In hours)*	Actual Effort per Task *(In hours)*	Done *(yes/no)*	Notes
Coupon	*Create Skeleton Code for Coupon component*	Anna Lantink	*2 hours*	*3 hours*	*Yes*	The purpose of this task was to create all the key entities and value objects necessary for creating and applying coupons.
	Make the create coupon endpoint	*Anna Lantink*	2 hours	3 hours	Yes – except for parts that require authentication	This task implemented the majority of the create coupon endpoint, except the authorization of the user role, which will be done once the authentication/user microservice is done.
	Strategy design pattern	Kyongsu Kim	3 hours	4 hours	No – the strategy field at order should also include information about the coupon field	While using coupons/calculating pricing, we have used a strategy design pattern. A single interface for basic price calculation, two different coupons.
	Apply coupon	Kyongsu Kim	2 hours	3 hours	Yes	It checks whether the coupon is valid using the activation code. It checks the store id, existence of coupon in the repository, checks the coupon type.
Order	*Create Order JPA Repo.*	Anna Lantink	1 hour	1 hour 30 min	Yes	Creating the repository for the order part of the order microservice and creating many of the necessary queries for this.
	Create Order object	Javier Páez Franco	1 hour	1 hour	Yes	Creating the Order object and all its underlying elements (e.g., an enumerator

						for the status).
	Create a Product object and its repository in the Order microservice	Javier Páez Franco	2 hours	5 hours	Yes	Creating a Product object (simplified from Product microservice) and its repository. It took longer than expected because I had never learnt about how SQL relationships in Spring work, and it took a few more hours to make it work (trying different ways, how Cascade or Fetch works, etc.)
	Implemented sendOrder and payOrder methods	Javier Páez Franco	4 hours	11 hours	No – I will fix all the restTemplate bugs in the next sprint	Implementing the sendOrder() and payOrder() functionalities. I have encountered several difficulties, such as PMD violations, StackOverflow exceptions, etc. The most problematic one was connecting with the Product microservice to get information about the products the user wants to add to their order. I didn't fully fix it during this sprint, so the final push will be done in the next sprint.
	Modify and cancel orders	Kristóf Lévay	6 hours	16 hours	Merge request made	
Menu	*Implement endpoints and structure for having default pizzas*	Matyas Kollert	4h	5h	Yes – except for the parts that require authentication	In this task, the Menu microservice was created, classes, etc., for pizzas, were created and endpoints for retrieving pizzas were created

	Implement endpoints and structure for having default toppings	Matyas Kollert	2h	2h	Yes – except for the parts that require authentication	In this task, classes, etc., for toppings were created and endpoints for retrieving toppings were created
	Implement endpoints for verifying pizzas and toppings	Matyas Kollert	2h	2h	Yes – except for the parts that require authentication	In this task, two endpoints verify if a pizza/topping exists and send back its name, price, etc., so they can be added to an order
User	*Change authentication by netId to email based*	Iordache Bogdan	3h	2h	yes	also made it that it validates a correct email format.
	Added functionality for changing password	Iordache Bogdan	2h	3h	yes	Also started to add domain objects at this time
	Encoded the user's email and role inside of the token	Iordache Bogdan	3h	2h	yes	Now every endpoint can firstly assert that the correct role type makes the request.
	Added allergens to Db	Iordache Bogdan	1h	1h	yes	Added all functionality required for the allergens to be used and stored.
	Changed how auth manager works in other services	Iordache Bogdan	1h	1h	yes	Implemented the changes in other services to reflect the changes inside the authentication part of User (email and role)
Documents	*Sprint Retrospective*	Anna Lantink	10 min	10 min	Yes	Set up the template and wrote the sprint retrospective for the previous week.

	Agenda	*Anna Lantink*	10 min	10 min	Yes	Write the agenda for the TA meeting on Dec 8th
	Notes	*Javier Páez Franco*	10 min	10 min	Yes	Write and upload the notes from the TA meeting on Dec 8th
Other	*Checkstyle*	*Javier Páez Franco*	20 mins	30 mins	Yes	I added a checkstyle file to the project. I based mine on the checkstyles of several companies like Google or Oracle. I also provided comments briefly explaining each module and a link to the checkstyle website, explaining it in more detail.

Project: SEM
Group: 04a

Main Problems Encountered

Problem 1: Splitting the coding

Description: We wanted to split up the tasks such that they could all be done as separately as possible, to reduce merge conflicts. However, we found that since a lot of our code is heavily linked to each other, given the relatively small scope of the scenario, this was easier said than done.

Reaction: We managed to make it work by working together a lot and discussing frequently where we were in the code. We also reviewed each other's code so that we kept up with what others were doing. Since we did a lot of the heavily linked coding this sprint, hopefully this will be less of an issue in the future.

Problem 2

Description:

Reaction:

Adjustments for the next Sprint Plan

Motivate any adjustments that will be made for the next Sprint Plan.

Some of us did more work than others, because we didn't split up the code in a way that everyone can work in parallel, so we are going to work on making sure everyone can work in parallel in the next sprint.