Sprint Retrospective, Iteration # 2

User Story	Task	Task Assigned To	Estimated Effort per Task *(In hours)*	Actual Effort per Task *(In hours)*	Done	Notes
Coupon	*Apply Coupon functionalities*	*Kyongsu Kim, Anna Lantink*	*2h*	*2h*	*Yes*	Functionalities such as getCheapestPizza, discount percentage are properly applied as a field of strategy. And the converter for the JPA repository is created
	Add store id to each coupon	*Anna Lantink*	2h	3h	Yes	Getting the store id from the user microservice and adding it to the coupon when created, if store owner
	Test Creating Order	*Anna Lantink*	2h	4h	Yes	Testing the creating a coupon. Took longer than expected due to mocking issues, that have since been resolved.
	Check roles in coupon controller	*Anna Lantink*	1h	1h	Yes	Ensure that only the users with correct roles can access the endpoints. Otherwise throw unauthorized
	Saving the strategy in Order	*Kyongsu Kim*	2h	3h	Yes	Features such as strategy and moneySaved filed is added on order to reduce unnecessary recalculation of apply coupon. Now, the apply coupon is not always called, but using the saved strategy type, it can directly calculate the price and compare two coupons easily
	Organizing structure of each strategies	*Kyongsu Kim*	1h	1h	Yes	In order to make strategies more efficient, the fields and functions have been changed in concise way. Repeated functions.(computePrice and computePriceWithCoupon) are simplified, unnecessary fields are deleted
	Reconstructing strategy design pattern	*Kyongsu Kim*	2h	5h	Yes	Previously, the strategies only included usage of coupon. However, it makes more sense to use it as how is the price is calculated. Hence, the basic pricing strategy is added, and the given input is switched from double total price

						to list of product prices
Order	*Implemented sendOrder and payOrder methods*	*Javier Páez Franco*	3 hours	4 hours	Yes	I finished all the errors from the previous sprint, and successfully finished the methods
	Implemented alerting users of their allergens in order	*Javier Páez Franco*	2 hours	3 hours	Yes	User microservice stores if the user is allergic to a certain product by contacting the product micrsoervice
	Started updating get Order(s) methods	*Javier Páez Franco*	1 hour	1 hour	Yes	Started implementing get Order(s) methods, so that what is returned depends on the role of the user.
	Modify orders	Kristóf Lévay	6	16	Merge request	Adding/removing products and toppings or products. Extension of current code involved some challenges. Created methods with separate functionalities. Tested basic functionality with little coverage. The price field of Order does not get updated for toppings, only the price field of Product.
	Cancel orders	Kristóf Lévay	3	3	Merge request	Cancelling orders. Extension of current code was simple and straightforward. Tested numerous different behaviours.
Menu	Verify order	*Matyas Kollert*	1	2	yes	

	Add allergen warnings when verifying products	*Matyas Kollert*	1	1	yes	
	Add allergen warnings when verifying toppings	*Matyas Kollert*	1	1	yes	
	Testing the classes	*Matyas Kollert*	2	4	yes	I have done some basic testing where I figured out how to test the connections between microservices
User	*Implemented Roles using the Decorator design pattern*	*Iordache Bogdan*	2	10	Yes, but we decided to redesign	Refactored all the code in the user microservice to implement the pattern.
	Made certain endpoints only accesible to certain Roles	*Iordache Bogdan*	2	1	Yes	The product endpoints have checks to assert that only certain Roles can make requests to the endpoints.
	Added store ID to the Database	*Iordache Bogdan*	3	2 30	Yes	We also store store id now in the db and added al endpoints/ functionality needed to accommodate this.
Documents	*Redo the Bounded Contexts part of Assignment 1*	*Matyas Kollert*	1	1	no	There are still some details that need to be done
	UML Component Diagram	*Anna Lantink*	1h	4h	Yes	Fix the UML Component Diagram to make it more detailed. Took longer than expected due to the level of detail

	Writing Strategy Design Pattern	*Anna Lantink*	30 min	30 min	Yes	Writing the strategy design
	Revise Overall Architecture	*Anna Lantink*	1h	1h	Yes	Revise overall architecture section in report
	Revise Order Microservice	*Javier Paez Franco*	2 h	2 h	Yes	Revise order microservice section in report
Databases	*Set up H2 Console and Persistence*	*Anna Lantink*	1h	6h	Yes	Took longer than expected due to several errors coming up and having to thoroughly test that the console and persistence worked properly. Spent many hours researching
	Populate certain databases automatically	Anna Lantink	2h	4h	Yes	Populate certain databases through jackson populator. Had to do this over several merge requests. Experienced some problems using population with interfaces.

Project:_________ Group: _

Main Problems Encountered

Problem 1

Description: We had problems testing the connections between different microservices

Reaction: We managed to figure it out after several hours of research and collaboration. The only thing we can do moving forward is to keep this problem we had in mind, and make sure that if someone else has this problem, we communicate to them how we solved it this time.

Problem 2

Description: Certain members of the team are not revising merge requests, or coding at the same rate as others.

Reaction: We plan on having a meeting to work things out, and hopefully give these people more workload in the coming sprint(s).

Adjustments for the next Sprint Plan

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

We will try to work on making the work more evenly split by communicating more, and making sure that everyone understands what they are supposed to be coding and how the architecture works. Specifically, we plan on creating a plan for the upcoming sprint so that we can have a clearly defined timeline of what to do when, and that way we can know if people are late in what they stated they’d do.