Sprint Retrospective, Iteration #4

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| --- | --- | --- | --- | --- | --- | --- |
| User Story # | Task # | Task Assigned To | Estimated Effort per Task  *(in hours)* | Actual Effort per Task *(in hours)* | Done  *(yes / no)* | Notes |
| *User creates an account. Then he creates a house so his housemates can join.* | Create a connection between this microservice and authentication in order to obtain the correct credentials of the user | Fabian | 1.5 | 2 | Yes |  |
| Add update methods for the User, House, Request controllers and test them | Ina  Fabian | 2 |  | No | Through automatic tests and manual testing of the endpoints |
| Test the Request microservice endpoints manually | Ina  Fabian | 1.5 |  | No | The get methods are already tested. |
| Add method to check the status of the user credits | Ina | 1 | 1 | Yes | If the user has less than -50 credits then they get a message they should buy groceries |
| Add method for a user to create a House | Fabian |  |  | No |  |
| Add method for a user to leave a House | Fabian |  |  | No |  |
| Add method to get a list of users (their usernames) from a household | Fabian |  |  | No |  |
| *User adds products to the fridge. Then, after there are products in the fridge, users are able to make use of products, by adding transactions in order to keep track of how the products are used* | Update Product Controller and Product Entity to have the credits of a user updated when he adds a product. | Kendra | 1.5 | 2+ | No | We have had quite a few problems with making the microservices communicate between them so we will try to continuously get a hold of this situation and work things out. |
| Add a method to update the expired field of a product once a product has gone bad. | Kendra | 0.5 | 0.5 | Yes | This method was fairly easy to implement as it only required a setter like structure, it can be found in the ProductController known as setExpired. |
| Update Transaction Controller and Transaction Entity to have the credits of a user updated when he uses a product. | Stoyan | 1.5 | 1 | No | We had issues finding a proper way to establish communication between the microservices. The main problem was that we did not realize how to connect the Transaction and Request microservice in order to establish a must have operations that will automatically change the credits of a user. I have created a method for that, but it is still not fully test. |
| Adding more basic functions to the Transactions controller | Stoyan | 1 | 1 | Yes | We added some more basic functionalities to the Transactions controllers for changing the amount of portions in a fridge in particular household |
| Create a communication between this microservice and the Requests microservice in order to have the user credits properly updated. | Oskar, Stoyan | 2 | 2.5 | No | Researching how to establish a communication between the microservices in order to control the credits of a user automatically. We now have an idea and we already created some methods. However, they are still not fully teste. |
| Create more tests for the Product controller to reflect the changes | Kendra | 1 | 2 | Yes | The product Controller did not achieve a high enough test coverage so we had to work on it in order to make the coverage better. |
|  | Create more tests for the Transaction controller to reflect the new changes. | Stoyan | 1 | 1 | No | Making plans for what we have to test and in in what way to test the controllers in order to achieve good coverage of the code. |
|  | Implement the authentication | Atanas | 1 | 1 | Yes | The authentication microservice was almost working, so it was easy to make it work with the gateway |
|  | Implement the load balancer | Atanss | 0.5 | 3 | Yes | The load balancer did not have a lot of code, because we are not using a lot of what it is capable of doing.  We use it mostly as a manager for our other microservices. However, I had a lot of problems with the configuration of the load balancer, because it did not have good documentation. |
|  | Implement the gateway | Atanas | 2 | 4+ | Yes | Finally managed to implement a working gateway that checks the JWT token set by the authentication microservice. |
|  | Manually test the controllers | Oskar, Fabian | 4 | 4 | Yes | This made us realize what issues we are facing in terms of communication between controllers. |

Project: Software Engineering Methods - Student House Food Management

Group: 51

Main Problems Encountered

**Problem 1**

Description: We had problems in creating a communication between the Transactions microservice and the Requests microservice

Reaction: Try to gain further understanding in how microservices should work together in order to solve the problem with modifying user credits.

**Problem 2**

Description: We had problems understanding how to test our code.

Reaction: Gain further information about the testing of the controls and discussing the issue with the other group members.

**Problem 3**

Description: We had problems with the configuration of the third-party libraries we used.

Reaction: A lot of debugging, manual testing and reading documentation and issues.

Adjustments for the next Sprint Plan

*Succeed in creating a proper working communication between microservices and improve test coverage.*

*Make sure that all the methods are manually tested and work as expected.*