Sprint Retrospective, Iteration #5

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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.* | Add update methods for the User, House, Request controllers | Ina | 1.5 | 1.5 | Yes |  |
| Test the update methods for the User, House, Request controllers | Ina  Fabian | 2 |  | No | Manual testing - completed  Automatically tested - not completed |
| Test all the Request microservice endpoints manually | Ina  Fabian | 1.5 | 2 | Yes | Successfully tested all endpoints manually |
| Add method for a user to create a House | Fabian |  |  |  |  |
| Add method for a user to leave a House | Fabian |  |  |  |  |
| Add method to get a list of users (their usernames) from a household | Fabian |  |  |  |  |
| Add method for a user to join a household once the members accepted the request | Ina | 1 | 1 | Yes |  |
| Add method for members of a household to accept requests of a user to enter their household | Ina | 2 | 2 | Yes |  |
| Manually test the userJoiningHouse and membersAcceptingRequest | Ina | 1 | 1 | Yes | Should be tested automatically? |
| Fixed recursion and add/update methods in the Request microservice | Ina | 5 | 10 | Yes | Had this problem for the whole last week. Tried many options, multiple times. In the end, I deleted the tables in the database and started again -> eventually worked |
| Try to fix recursive serialization | Oskar | 3 | 4 | Yes  (will not be merged) | Ina’s solution was considered superior to mine, thus my branch will not be merged |
| Add more JUnit tests for the entities/controllers | Ina  Fabian | 3 |  | No | Most of the methods have been already automatically tested, however we will still need to test a few more methods in order to hopefully achieve 100% test coverage for each class |
|  |  |  |  |  |  |
| *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 with new methods in order to cover all the required functionalities | Kendra | 1.5 | 2 | Yes |  |
| Migrating the database schema to DigitalOcean, because the TU Delft database is unreliable | Atanas, Oskar, Fabian | 1.5 | 3+ | No | We had a lot of problems with the auto-creation of the database schema in MySQL 8. In the end it did work for the transactions microservice, but we decided we do not have enough time to change the databases.  We will continue only if we have more problems with the TU Delft database. |
| Added a @Username annotation that returns the username of the user making a request for the transactions microservice. | Atanas | 1 | 2 | Yes |  |
| Create more tests for the Product controller to reflect the changes | Kendra | 1 | 1.5 | Yes |  |
|  | Extract all common code to a separate package to avoid some code duplication | Atanas | 1 | 1.5+ | No | Decided it is not worth it, after the first lecture of the week, so this task was abandoned. |
| Changed the datasource config for the TUDelft MySQL database | Atanas | 0.5 | 1 | Not merged yet | Restricted how many connections to the database the datasource is allowed to open. Also updated the connection timeout parameters and the maximum pool size.  Couldn’t reliably test it, but can confirm that there are less open connections on the database by checking the running processes on the database. |
| Make all microservices pass PMD. | Oskar | 3 | 5 | Yes | A lot of classes were annotated to skip pmd check. This made us not spotting a lot of bugs that I fixed. There are still one or two classes that has to be checked |
|  | Manual test controllers | Oskar, Fabian | 3 | 3 | Yes |  |
|  | Make presentation | Kendra, Atanas, Fabian, Oskar, Ina, Stoyan | 12 | 12 | Yes |  |
|  | Create communication between the microservices: Transactions and requests | Stoyan | 2 | 3 | Yes | In order to change the credits of a user we have to establish a communication between the microservices Transactions and Requests, where the credits of a particular user will be changed. This required a bit of research and working as a group in order to make it work. |
|  | Create method for automatically adding credits to a user when he buys a product and adds it to the fridge | Stoyan | 2 | 2+ | Yes | A function to change the credits of a user when he adds a product. It gets the price of the product, converts it to credits, sends it to the request microservice and adds the credits to the user. |
|  | Added an option to the method for adding credits, to also delete credits. The method is renamed to changing credits and now it is also able to subtract credits from a user | Stoyan | 1 | 1 | Yes | Now we can add and subtract credits when a user gets/adds a product. The credits of the user will be changed automatically by sending the credits to the request microservices. |
|  | Edit videos + merge  (presentation) | Oskar | 2 | 2 | Yes |  |
|  | Add documents to the repository in order to have everything more centralized | Kendra | 0.5 | 0.5 | Yes | We needed to add all the sprint plans and meeting documents in the repository in order to make sure we have all our processes properly documented. |

Project: Software Engineering Methods - Student House Food Management

Group: 51

Main Problems Encountered

**Problem 1**

Description: We have a problem with database connection. Currently we have 3 possible options:

\*locally hosted mySQL database

\*Digital Ocean Cloud database (MySQL 8)

\*TU Delft hosted database (MySQL 5)

We have problems when trying to use DOC solution, since the JDBC controller cannot set up the schema of the database. Thus we decide to use TU Delft solution right now, but this solution is not perfect, since we often get “too many connections error”. This solution is not permanent.

We are working on solving the issue with DOC and we hope to deliver it until the deadline.

**Problem 2**

Description: The connection between microservices is not yet manually tested. We should focus on going through the code and checking whether everything is working ok.

**Problem 3**

We have a lot of code duplication across the microservices (mainly in the configuration classes) that can be resolved by creating a common dependency that all microservices use.

However, I had some problems with the configuration, so I decided we can do that later if we have time.

**Problem 4**

Description: We have unfortunately been busy with making everything work properly and haven’t got the chance to implement a reset functionality for our application.

Reaction: We will try doing that in the days to come in order to implement this option on time, before the deadline.

Adjustments for the next Sprint Plan

*Finish all the requirements by Friday and make sure they are fully functional, especially in terms of communication between the microservices.*

*Solve problems connected with Digital Ocean Cloud database connection*

*Make more tests for the controllers*