***Sprint retrospective, Iteration #2***

| User story | Task | Assignee | Estimated effort | Actual effort | Done | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| Fixed JaCoCO @Cleanup not seen when calculating branch coverage | - | Vlad Nitu | 1h30m | 1h30m | Yes. | We were not able to achieve full branch coverage due to some Project Lombok annotations that were not skipped by JaCoCo.  FIX: Add @Generated on top of the class  https://stackoverflow.com/questions/29520912/jacoco-exclude-generated-methods-using-it-with-lombok |
| Reached > 85% branch coverage on Matching subsystem | - | Vlad Nitu & Radu Nicolae | 4h | 3h30m | Yes | Follow-up from Iteration #1, where we managed to achieve full condition coverage (instead of branch coverage). |
| Fully tested DefaultController from Matching microservice | - | Vlad Nitu | 1h | 45m | Yes | Tested using MockMVC framework the Default controller (that ensures that Matching microservice can communicate with other microservices, when the User is authorized) |
| [Sanitize attributes in Matching microservice. Do not allow null values for some attributes and blanks for some strings](https://gitlab.ewi.tudelft.nl/cse2115/2022-2023/SEM33a/-/issues/35) | #35  !23 | Vlad Nitu | 15m | 1h | Yes | After following Laimonas example, added @NotBlank and @NotNull validatiors for Matching entity attributes.  Had some problems as Spring was not wiring the checkers, find out that I missed one dependency: https://stackoverflow.com/questions/48614773/spring-boot-validation-annotations-valid-and-notblank-not-working |
| Implement parser to handle BAD\_REQUESTS when thrown by the Validator in Maatching microservice | - | Vlad Nitu | 15m | 15m | Yes | The same parses can be found in NotificationController, as I used the one implemented by Laimonas |
| [Add serializaton and deserialization for LocalDateTime objects (start and end of each TimeSlot)](https://gitlab.ewi.tudelft.nl/cse2115/2022-2023/SEM33a/-/issues/38) | #38 | Vlad Nitu | 2h | 1h30m | Yes | Implemented and tested the deserialization and serelization of LocalDateTime objects. The same procedure should be followed in all the other classes that make use of a TimeSlot. Now, we are able to deserialize LocalDateTimes in any date format as a String object |
| Achieved 90% notification branch coverage | #37 | Laimonas Lipinskas | 2h | 2h | Yes |  |
| Add email strategy and refactor notifications to use strategies | #38 | Laimonas Lipinskas | 4h | 5:30h | Yes | Had some trouble with imports and other gradle stuff so that’s why the time is off |
| Add authorisation to notification endpoint | - | Laimonas Lipinskas | 1h | 1h | Yes |  |
|  |  |  |  |  |  |  |
| Delete a Matching after a user removes its activity |  | Vlad Nitu & Radu Nicolae | 1h | 1h | Yes | Radu implemented the feature, Vlad tested it. After a user removes an activity, an API call is made from Activity to Matching that asks the Matching subsystem to also remove it from its persistence layer |
| Add authorization to Activity microservice | - | Razvan Loghin | 1h | 1h | Yes | Added authorization so now if a user wants to acces an endpoint, it has to put a valid token |
| Activity Endpoints | - | Razvan Loghin | 3h | 4h | Yes | Added the following endpoints:  “/sendOwnerId/”  “/sendTimeSlots”  “/sendAvailableActivities/”  “/takeAvailableSpot”  “/check/UserId/ActivityId/Postition”  “createActivity” |
| [Users should be able to take only the positions that they have the certificates for](https://gitlab.ewi.tudelft.nl/cse2115/2022-2023/SEM33a/-/issues/20) | #20 | Razvan Loghin | 1h | 2h | Yes | Using the chain of responsibility to verify if a user has the correct certificate needed for an activity |
| Create the chain of responsibility for enrolling in an activity | - | Razvan Loghin | 4h | 4h | Yes | Now, when a user wants to enroll in an activity, the verification procedure is done using the chain of responsibility design pattern. |
| Set up methods and classes to make the User subsystem able to use authentication, timeslots and pairs | - | Lotte Kremer | 3h | 2h | Yes | Took less time than planned as a lot of things were already implemented in a very clean way in the other subsystems and could be copied and modified |
| Creating an account (after registering and authentication) is now possible for a user and there are endpoints that make it possible for other microservices to retrieve information about a user | #15#6#7#26 | Lotte Kremer | 3h | 4h | Yes | It includes endpoints for sending the competitiveness, organisation, positions, gender and certifcates. Will be used by the activity subsystem when reviewing whether a user can participate in an activity |
| Getting at least 80% branch coverage with testing for the User subsystem |  | Lotte Kremer | 3h | 5h | Yes | For everything that was in place (half of the endpoints, all the publishers, utils and other services) tests were written. Took longer than anticipated due to the fact that I was not familiar yet with mock testing |
| [Set up and configure the database used for UserRepository](https://gitlab.ewi.tudelft.nl/cse2115/2022-2023/SEM33a/-/merge_requests/21/diffs?commit_id=024144ebe3550b0af186247f6e73c99e10b5c1c1) | - | Dawid Plona | 2h | 2h | Yes | Created a new database hosted at [projects](https://projects.ewi.tudelft.nl/manager/), configured gradle dependencies and application.properties to properly utilise it as the data source |
| [Create methods used for database querying by the APIs](https://gitlab.ewi.tudelft.nl/cse2115/2022-2023/SEM33a/-/merge_requests/21/diffs?commit_id=b7b7eab2529c3a1f38908cc0be8dff24e69fb390) and test them | - | Dawid Plona | 3h | 3h | Yes | Implemented appropriate methods in the UserService class |
| [Make the error messages informative](https://gitlab.ewi.tudelft.nl/cse2115/2022-2023/SEM33a/-/merge_requests/21/diffs?commit_id=3dfd376b09ceac877680868f81b94e8c38e42136) | #35 | Dawid Plona | 1h | 1h | Yes | Self-explanatory |
| [Implement validation for the User entity](https://gitlab.ewi.tudelft.nl/cse2115/2022-2023/SEM33a/-/merge_requests/21/diffs?commit_id=9ae13b96f7900e5f9f5fd792f05e1a4d83e4da1c) | #35 | Dawid Plona | 2h | 2h | Yes | Implemented appropriate methods and used proper annotations |
| [Implement various utilities and refactorings in the User class as a cornerstone and facilitation of further development.](https://gitlab.ewi.tudelft.nl/cse2115/2022-2023/SEM33a/-/merge_requests/21) | - | Dawid Plona | 4h | 4h | Yes | Difficult to pinpoint to any specific issue, as it included various refactorings, checkstyle and PMD fixes, small changes, improvements and debuggings. Commit list is self-explanatory. |