Sprint Retrospective - Iteration #2

Group 58   Week 2

Microservice	User Story (from User Stories doc. numbering)	Task #	Task Assigned To	Estimated Effort (in hrs)	Actual Effort (in hrs)	Done (yes/no)	Notes
Rooms	Admin/1	Create addRoom method in RoomController	Nikolaos/Ee Xuan	0.5	1	Yes	
		Create editRoom method in RoomController	Nikolaos/Ee Xuan	0.5	1	Yes	
		Create deleteRoom method in RoomController	Nikolaos/Ee Xuan	0.5	1	Yes	
Rooms Schedule	Admin/6	Create generateRoomSlots method in RoomScheduleController	Nikolaos	2	2	Yes	This is how the room_slots table is initialized (it runs a stored procedure in the database)

Authentication	Student/1, Teacher/1, Admin/5	Create login method in AuthenticationController	Alexandru			Yes/No	
		Create register method in AuthenticationController	Alexandru				
		Create unregister method in AuthenticationController	Alexandru				
		Create modifyUser method in AuthenticationController	Alexandru				
Courses	Teacher/2	Create createCourse method in CoursesController	Luca	3	3	Yes	
	Teacher/4	Create createLecture method in CoursesController	Luca	3		No	Due to issues with the database this has not worked yet
		Create getAllLectures method in CoursesController	Luca	1	2	Yes	
Student Assignment	Student/6	Think through logic of student service	Michel/Alex	3	4	yes	We basically discussed what functions we would need and how they would interact, to not only make it easier to implement later, but also to be able to divide the tasks better.

	Student/6	Create assignStudentsUntil endpoint in StudentAssignmentController	Michel/Alex	2	2	no	The main functionality of the method was added, but the inter-service communication still needs to be done and currently only has placeholder return values.
	Student/6	Create a helper method for getting all scheduled lectures	Michel/Alex	1	-	no	This turned out to be a request we needed to make to another service, which we were planning to look into next week.
	Student/6	Create a helper method for getting all students ordered by their last visited time	Michel/Alex	0.25	0.25	yes	This was pretty straightforward as it came down to adding a method signature to the StudentRepo.
	Student/6	Create the database for students	Michel/Alex	0.5	1	yes	We had a lot of trouble getting one of the many-to-many relationships to work well in the database. It ended up having a weird bridge table while one of the linked tables only had 1 field, so that is kind of redundant. But it worked so we will try to fix this later.
NA	NA	Fix project structure to allow for multiple modules; each microservice is in its own module	Michel/Alex	2	4	yes	We couldn't find good sources to help us with structuring a project like this, and it seemed like every example we found had their own issues. In the end we ended up with a mix of different examples but it came down to a lot of trial and error which is why it took longer than anticipated.

Main problems encountered/Points to improve

1) We had a lot of difficulty with changing the project structure to allow for multiple modules - where each module is a different microservice. It was very difficult to get the project setup right and restarting and testing whether all the gradle configurations work across the project cost a lot of time. Eventually we finally had it working, but since we were paying so much attention on getting the build and test tasks working, we hadn't considered whether the pmd and checkstyle reports would work intentionally. At the end of the sprint it turned out that they didn't which meant we were not able to generate these reports. The next sprint will contain a task that modifies the project structure again to fix these issues so that we can generate these reports.