SEM Lab Meeting Week 4

Date: 02/12/21

Main focus: Assignment 1 + Progress on implementation

Chair: Dan

Secretary: Luuk

Agenda

- Progress we have made this week
    - Completed setting up the database
    - Progress on Software Architecture
- Discussion points
    - Check component diagram
    - Design patterns and which would be suitable for our application
        - Use chain of responsibility for authentication: first check the username and then the password.
        - Use proxy for detail information about a room.
        - Use decorator for filtering the rooms.
        - Factory method for creating the users.
        - Use Strategy for sorting my bookings.
- Plan for next week
    - Implement design patterns
- Questions:
    - In the assignment 1 document it says that we need to implement the design patterns, but is the deadline for the implementation the same as the one for the assignment 1 document?
    - Are microservices supposed to communicate with each other?

- ○ How are we supposed to implement mutation testing?
- ○ Storing data structures in database
- ○ Should the application be extendible, for ef: in terms of roles
- ○ Error with mock
- ○ Unit testing auto-generated ids

Meeting Notes

- Standup meeting: Generally good. Workload division can be improved a bit, mainly in regards to coding.

- Design Patterns:
    - Chain of Responsibility: Not great, not bad either.
    - Use of proxy: not very applicable to our application.
    - Decorator filtering: Sure, a good idea.
    - Factory method: Again not very applicable.
    - Sorting: Maybe for the bookings, but otherwise probably not.

- In response to our database issues: Just hardcode things and get rid of schema.sql. It's alright that it's not a very good approach or very nice to possible data analysts, as long as it works.

- Architecture draft: Looking very nice
- Sprint review session: Also very well done
- Issues in gitlab: looking good

- Deadline for design patterns is the same as assignment 1 (Friday 10-12-2021)
- Answer to microservice communication question: They can communicate internally, the same way the main gateway communicates with the microservices. As long as the microservices don't send requests to other services through the main gateway.
- Mutation testing: leave it until later. It's an assignment. Don't worry about it yet.
- Mock errors: Ana doesn't know either. Keep updated and keep trying.

- Pipeline issues fixed. Pipeline works and commits pass as of Thursday (02-12-2021) afternoon.