Backlog

Group 18A

November 2021

1 Must Haves

1. As a user, I can login using my username and password.

2. As an admin, I can create a course that is open for TA recruitment.

3. As a student, I have an overview of the courses that I can apply for.

4. As a student, I can candidate myself for a specific TA position if and only if I passed the associated course.

5. As a student, I can receive a notification about whether I have been selected to TA a course.

6. As a student, I can receive a contract for the TA position for which I have been selected.

7. As a lecturer, I have an overview of the possible candidates for a TA position.

8. As a lecturer, I can examine the data of candidate TAs, such as grades and past experience as TAs.

9. As a lecturer, I can request the system to recommend TAs based on the default selection criteria.

10. As a lecturer, I can select candidates for the TA position.

11. As a lecturer, I can send (and create) a contract to selected TAs.

12. As a lecturer, I can close the course for recruitment either when there are sufficient number of TAs (1:20) or deadline has passed.

13. (**Non-Functional**) The application should be written in Java.

14. (**Non-Functional**) The application must be built with Spring Boot and Gradle

15. (**Non-Functional**) The interactions with this application must be handled with API calls.

16. (**Non-Functional**) All users of the system should be authenticated before fully accessing the system with their given role.

17. (**Non-Functional**) Passwords need to be stored securely.

18. (**Non-Functional**) The system will use unique `String`s to identify the users of the system.

19. (**Non-Functional**) All features should have 100% test coverage (line + branch/condition)

2 Should Haves

1. As a student, I can withdraw my application for a TA position if the lecturer did not already proceed with the selection procedure.

2. As a student, I can only candidate myself for three courses per quarter.

3. As a TA, I can indicate how many hours I spent on a particular course, after I have completed TAing this course.

4. As a TA, I can declare the average number of hours I spent each week on this course once the course finished. (Cannot exceed number of hours on contract)

5. As a TA, I can receive a notification about whether the number of hours I indicated have been approved.

6. As a TA, I can view the reviews of lecturers associated with a particular course.

7. As a lecturer, I have an overview of the TAs and the number of hours they spent each week on average once the course ends. (per week - number of hours)

8. As a lecturer, I can approve or disapprove the number of hours indicated by the TA.

9. As a lecturer, I can rate my experience with a TA with the number of stars and optional short review.

10. As a lecturer, I can view the ratings of candidate TAs.

11. (**Non-Functional**) The system should have integration testing with the database connections.

3 Could Haves

1. As a student, I can view how many hours on average past TAs have worked for this course.

2. As a TA, I can write a short description about my experience with the course.

3. As a lecturer, I can modify the selection criteria for the recommendation system, either by grades, past experience.

4. As an admin, I can **Create**, **Read**, **Update**, **Delete** the data in the database.

5. As a lecturer, I can edit the reviews I have written for a particular TA.

6. As an admin, I can export a CSV/JSON file with an overview of all the data of the system.

7. (**Bonus**) As a lecturer, I can adjust the ratio for the number of TAs needed for a course, e.g. the ratio of number of TAs to students can change from 1:20 to 1:25 or 1:15.

8. (**Bonus**) As a lecturer, I can apply an algorithm that reduces the candidate TAs I need to manually review.

9. (**Bonus**) As a lecturer, I can apply an algorithm that automatically select TAs and automate the notification process.

4 Won't Haves

1. As a user, I will have a Graphical User Interface for this application.

2. As a user, I can specify to the system to notify me via my email.