

CS 319 Term Project

Spring 2025 Section 1 Group 1

Deliverable 2 Final Submission

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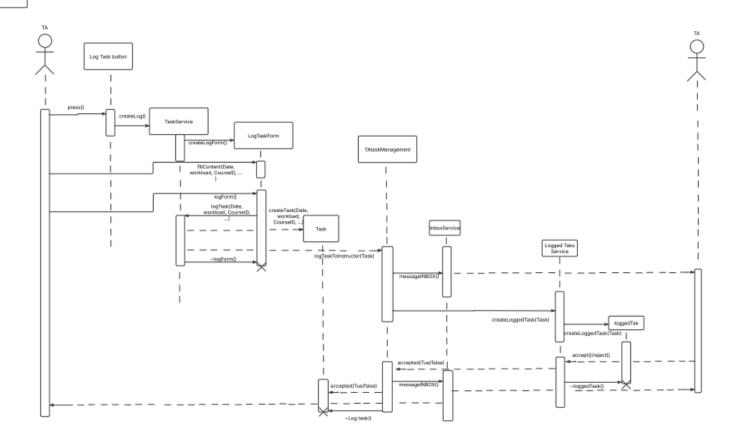
Instructor: Eray Tüzün

Teaching Assistant: Yahya Elnouby

- 1. Sequence Diagram
- 2. Activity Diagrams
- 3. State Diagrams
- 4. Class Diagram
- 5. Non-Functional Requirements
- 6. Mock-Ups

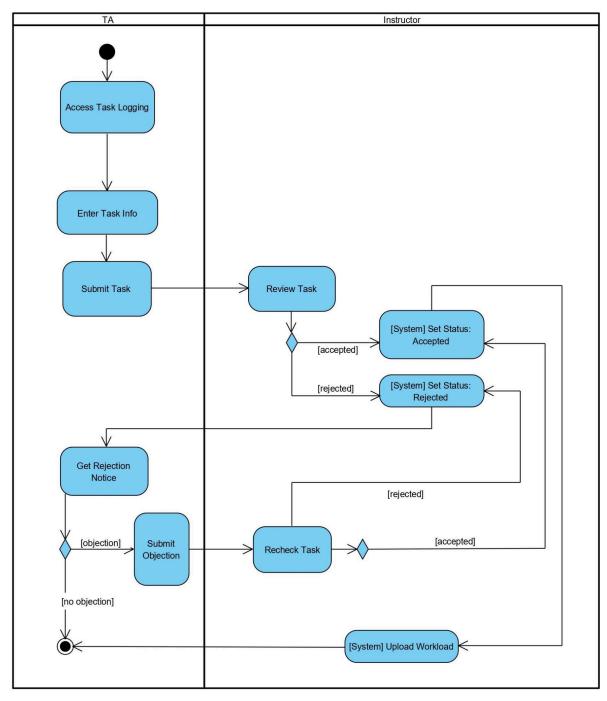
1. Sequence Diagram

Log task

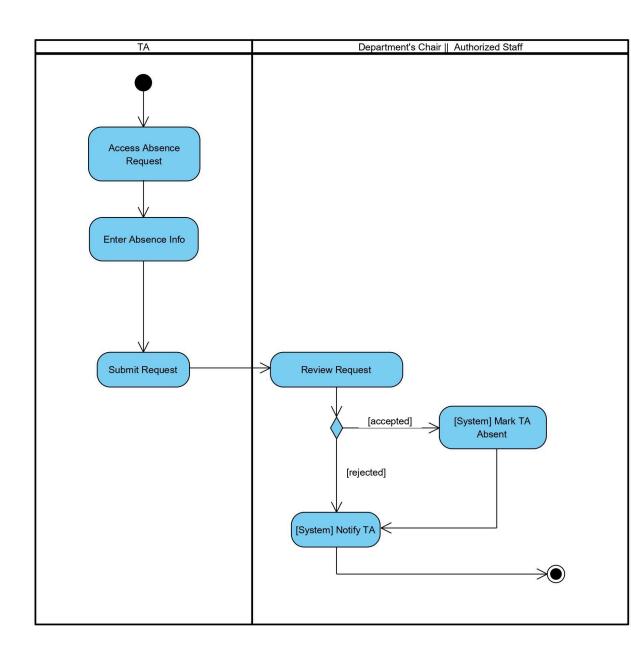


2. Activity Diagrams

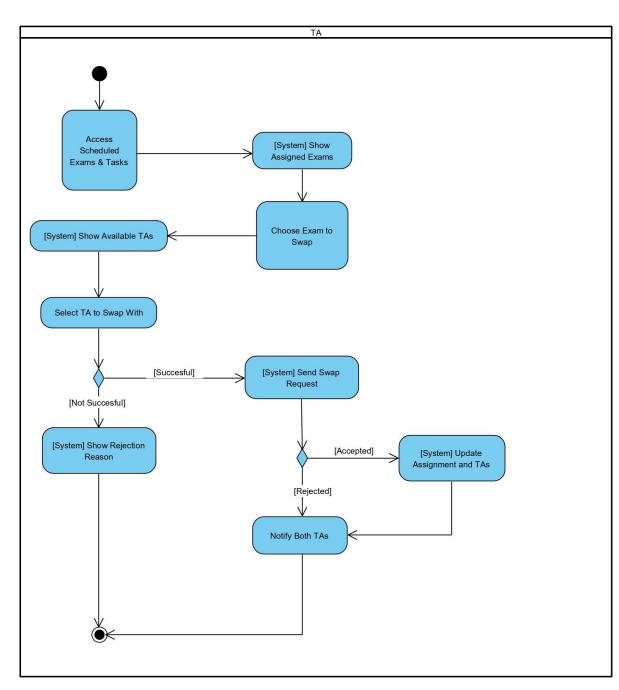
2.1. Log Task Activity



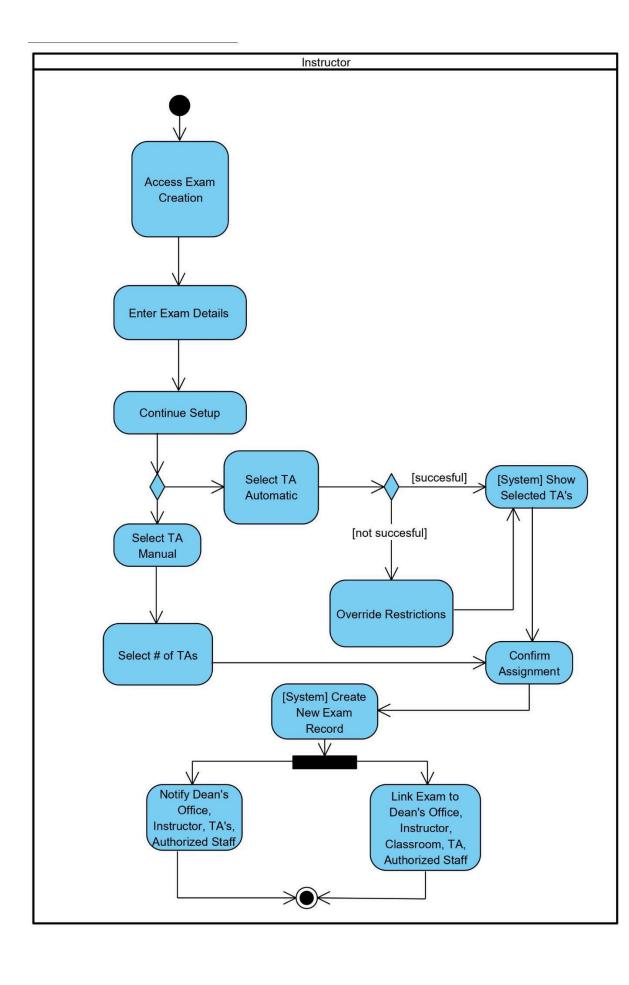
2.2. Mark Absence Activity



2.3. Swap Request Activity

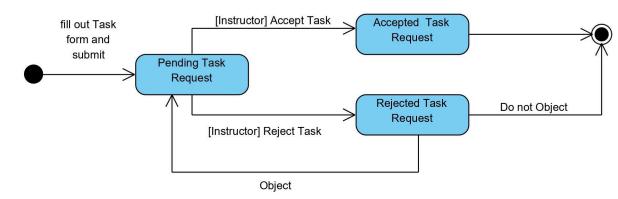


2.4. Exam Creation Activity



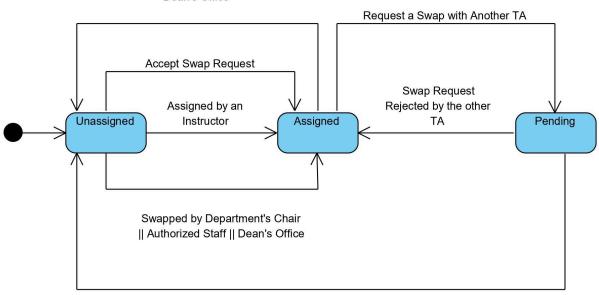
3. State Diagrams

3.1. Logged Task State



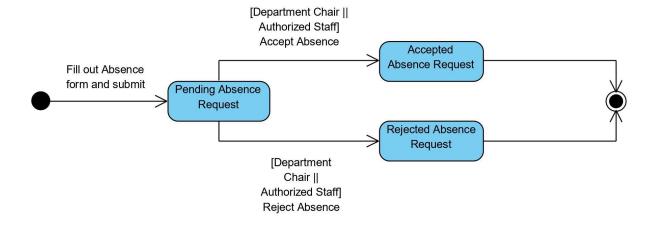
3.2. Proctor Assignment State

Swapped by Department's Chair || Authorized Staff || Dean's Office



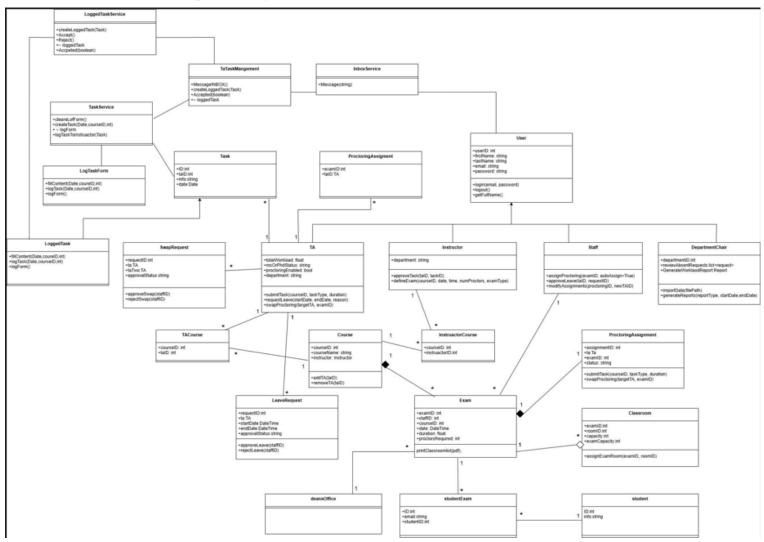
Swap Request Accepted by the other TA

3.3. Absence State



4. Class Diagram

https://drive.google.com/file/d/1s-cxmjOeDE7DStZKjUq8Hi-2lXfR zAu/view?usp=sharing



5. Non-Functional Requirements

Quality Requirements

Usability

• Users should be able to access key pages within three clicks from the main dashboard, ensuring an intuitive and efficient navigation experience.

Reliability

• In case of a system failure or crash, the TA Management System should not experience any data loss. Weekly backups should be maintained to enable system recovery within 30 minutes.

Performance

- The application should support screen resolutions of 320x480+ pixels on mobile, 600x800+ pixels on tablets, and 1280x720+ pixels on desktops.
- The web application should be accessible on PCs, laptops, and mobile devices.
- All pages should load within three seconds on the client side for optimal user experience.
- The backend should be capable of handling at least 100 simultaneous requests from Teaching Assistants and administrators.
- Backend server response times should not exceed 2000 milliseconds.

Constraints or Pseudo Requirements

Implementation

• Users should be able to access the application using the latest two versions of Chrome (117.0+), Safari (15+), Firefox (122+), or Microsoft Edge.

Legal

- The system should display a cookie consent banner to obtain user consent before storing non-essential cookies.
- The website must comply with GDPR regulations, allowing users to request data deletion and providing clear information on data usage.

6. Mock-Ups

Mockup link:

https://lun-eu.icons8.com/d/v0r5GjB-D0OM0YBQ7xHEvw?page=wEr5GjB-D0OM0YBQ7xHEvw&vp=-913,-335,3589,1905

6.1. Login

Bilkent University Online Service	ces
Thon Universities	ent University
Login : TAM - Teac	ching Assistant Management System
Bilkent ID	
	Personnel ID or Student ID number
Blikent ID	Personnel ID or Student ID number

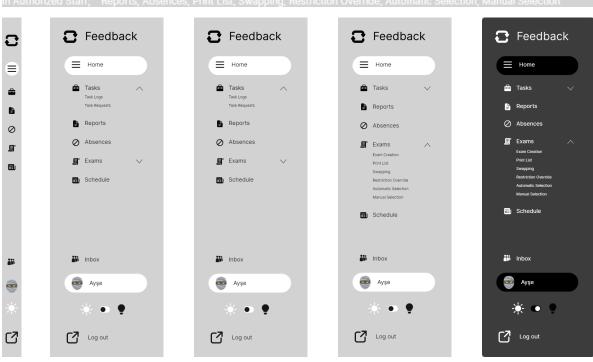
*If the id and password were left blank

6.2. 2 Factor Authentication

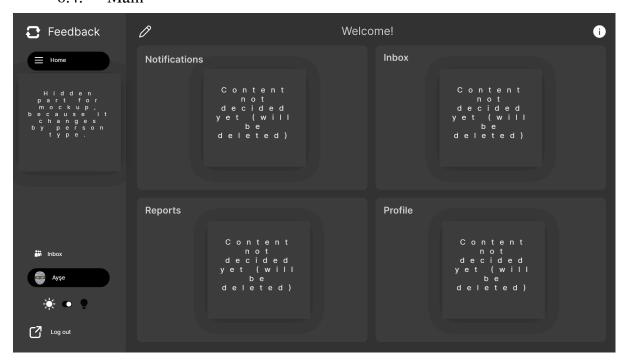


6.3. Side Panels

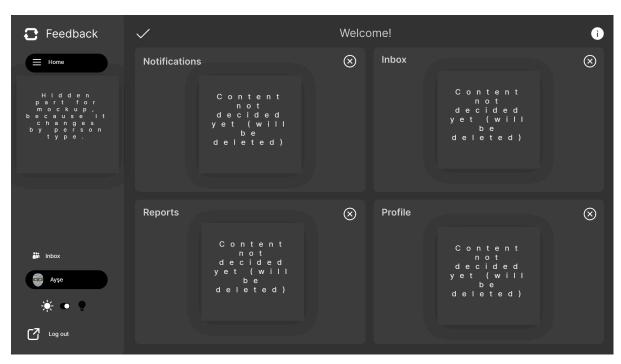
In TA; Task Logs, Absences, Swapping, Schedule
In Instructor; Task Logs, Task Requests, Exam Creation, Print List, Restriction Override, Automatic Selection, Manual Selection
In Dean's Office; Reports, Absences, Exam Creation, Automatc Selection, Manual Selection
In Authorized Staff; Reports, Absences, Print List, Swapping, Restriction Override, Automatic Selection, Manual Selection

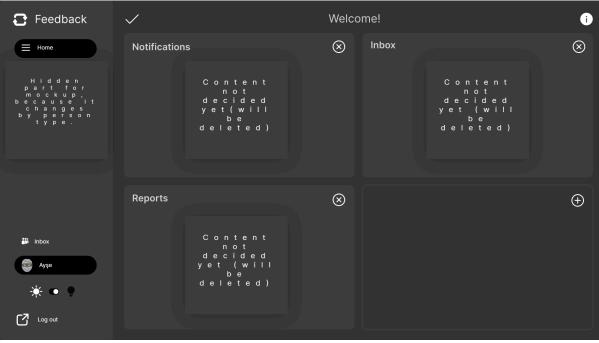


6.4. Main

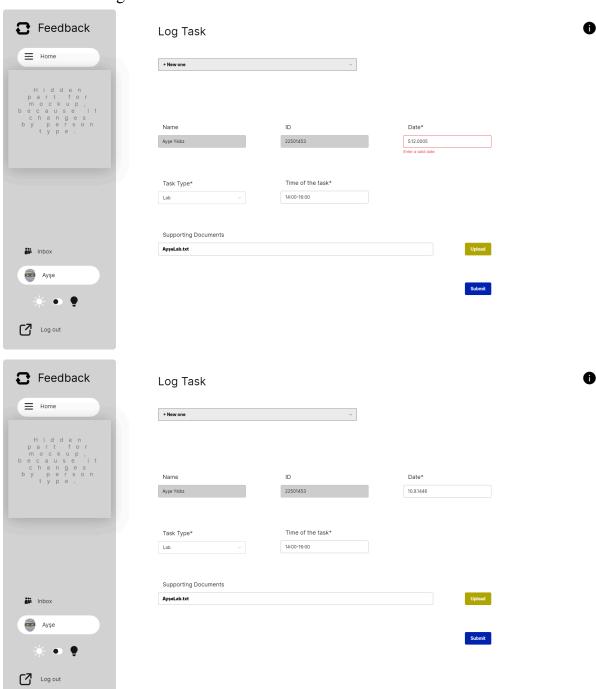


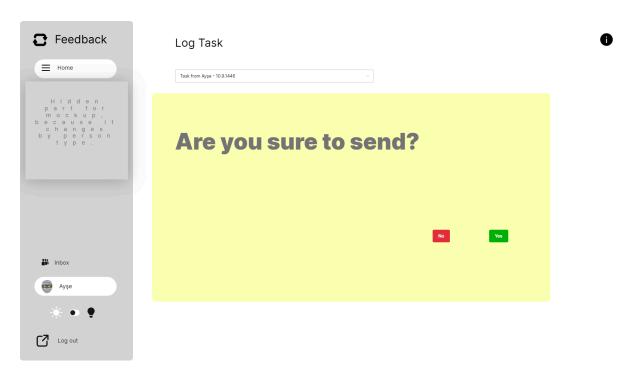
^{*}Box categories includes only side panel labels (except notifications)





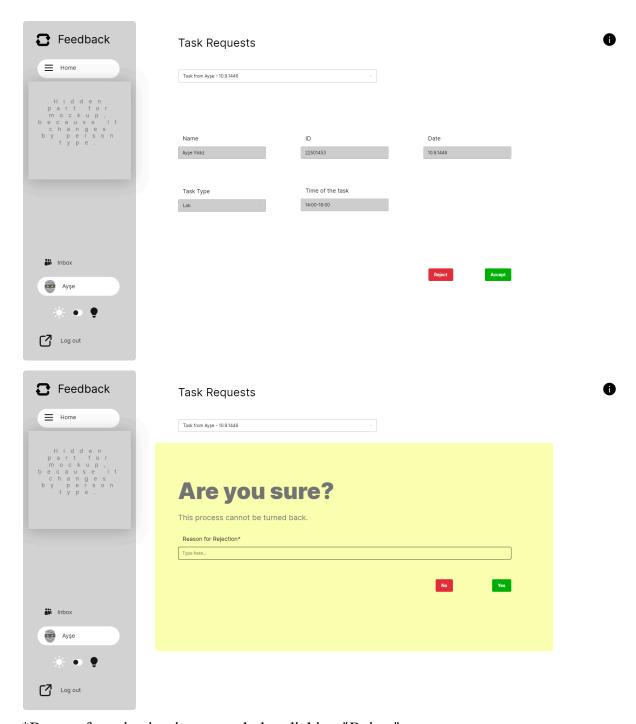
6.5. Log Task



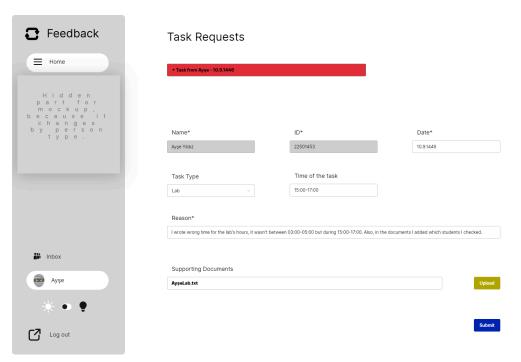


6.6. Task Requests



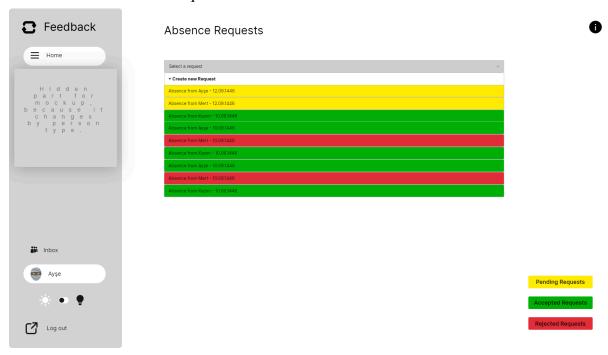


^{*}Reason for rejection is seen only by clicking "Reject"

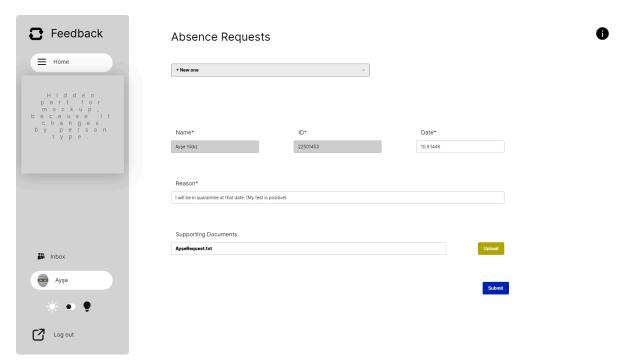


*This is for changing, Reason part is automatically seen.

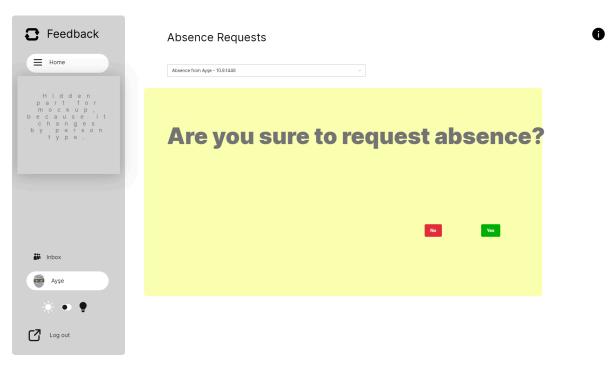
6.7. Absence Requests



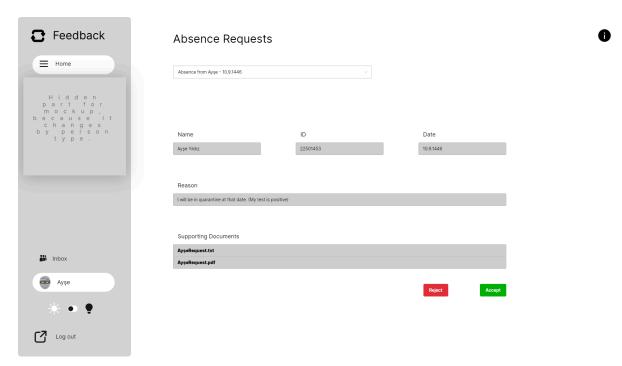
*"+ new one" is for TA, TA only sees his/her requests



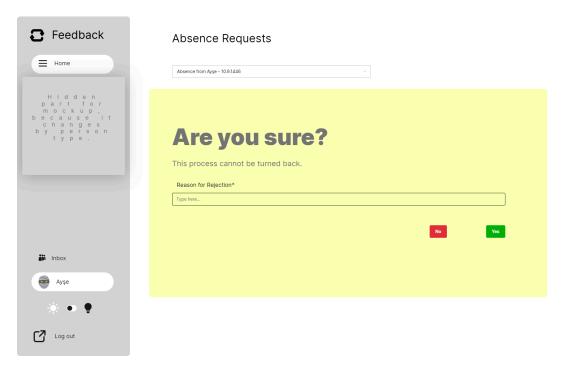
*TA



*TA



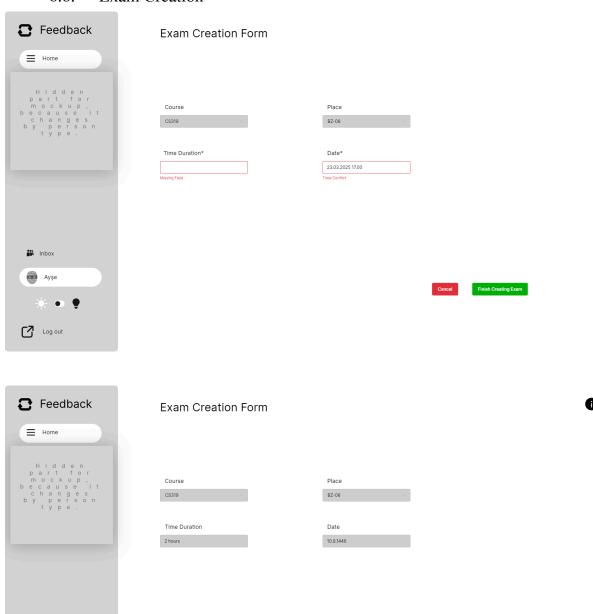
*Authorized Staff



*Authorized Staff, Reason for rejection is seen only by clicking "Reject"

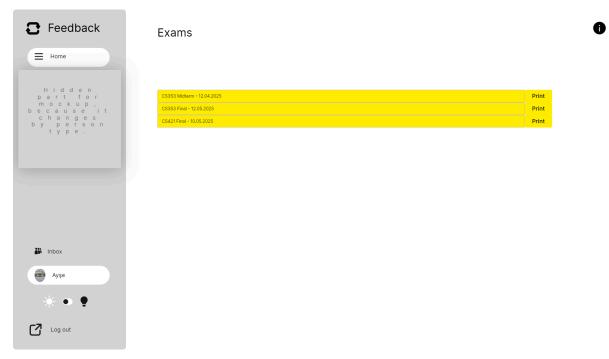
6.8. Exam Creation

Log out

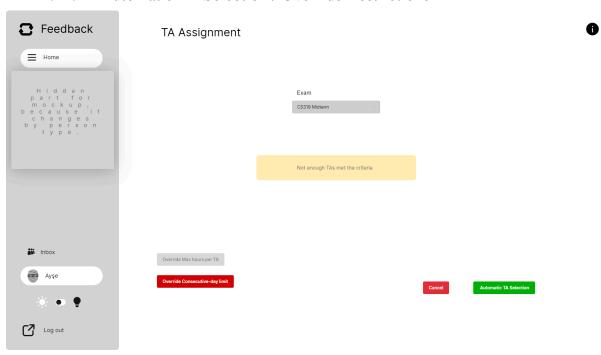


Form is successfully created

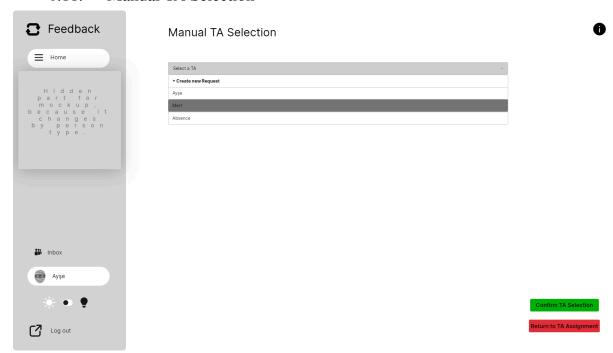
6.9. Print Classroom List



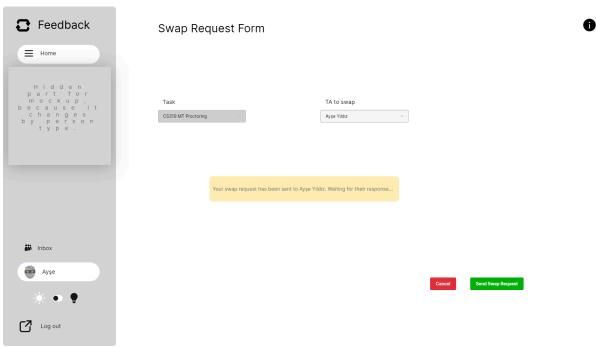
6.10. Automatic TA Selection / Override Restrictions

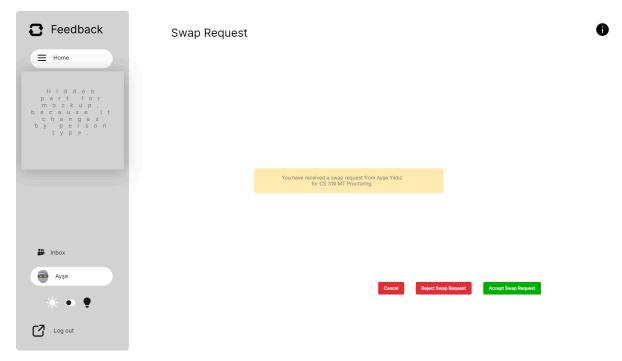


6.11. Manual TA Selection



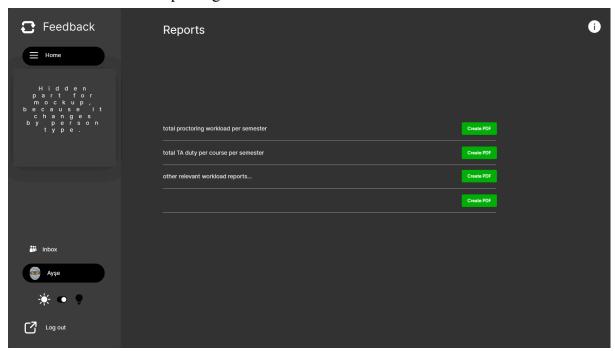
6.12. Swap Proctoring

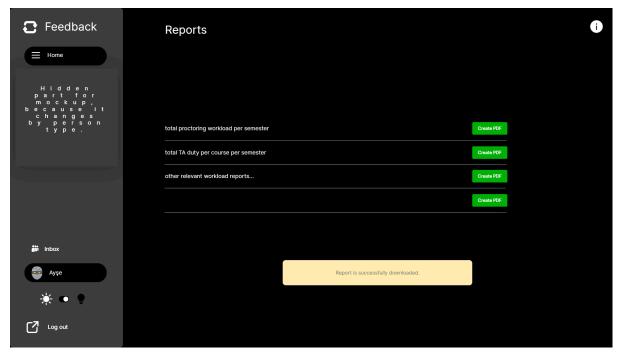




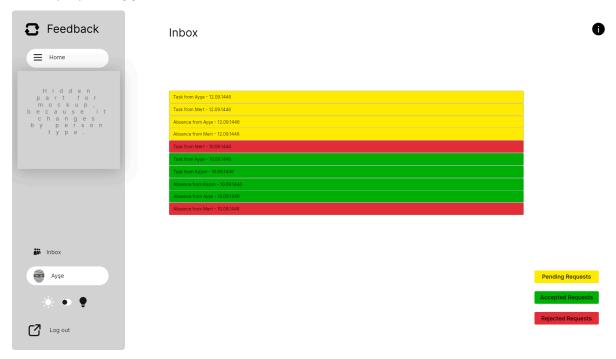
*Incoming Request

6.13. Create Reporting on Total Workload





6.14. Inbox



Note: Change profile photo is by clicking profile page (it will be informed in the page), log out is in side panel.