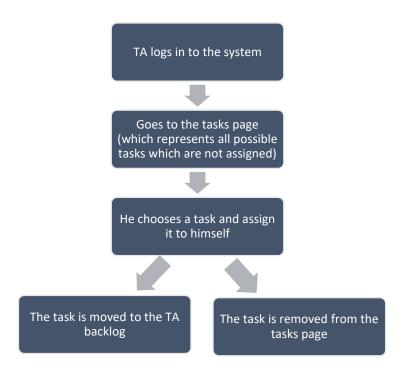
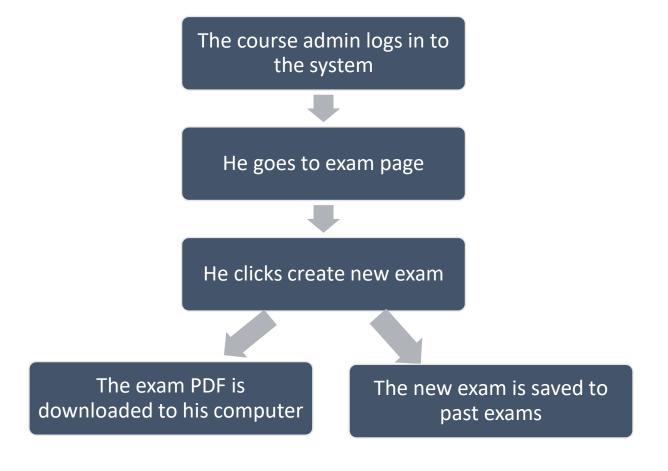


Our system manages work inside of an academic course between the lecturer(s) and the TAs. Through the system you will develop, test and create multiple-choice questions, generate exams and analyze them.

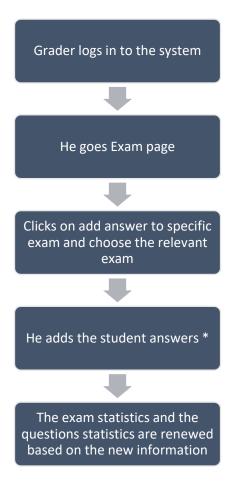
## Work management flow: TA takes a task from the task pool



### Create exam



## Add exam answers



<sup>\*</sup> In the future we might want to change It into scanned answers

Technological choices

Backend: JavaScript

Frontend: React

Database: PostgreSQL



#### **User Adoption Challenges:**

Example: Resistance from users to adapt to the new system.

Mitigation: Provide user manual + gather feedback early in the development process.

#### **Data Security:**

Example: Vulnerability to unauthorized access and leaking of sensitive information.

Mitigation: Use user authentication mechanisms to safeguard sensitive data, access will be allowed only from the university network, or by using VPN.

#### Web Interface:

None of the members had work as a web developer.

Mitigation: All members will read and study about prepared libraries (specifically risk) that will allow easy web interface development.

# Proof Of Concept

## Research:

#### • Examination of Web-Based Workflow Tools:

- Investigate popular web-based workflow management tools.
- Assess their capabilities for role-based dashboards and task distribution.

#### Algorithmic Task Distribution:

 Research and develop a preliminary algorithm for task distribution

# Preliminary:

#### Selection of Web-Based Framework:

 Based on research, choose a web-based framework suitable for developing the workflow management system.

#### Basic UI Development:

- Implement basic UI features, such as role-based dashboards and content organization.
- Integrate a simple manual task assignment mechanism.

# System Implementation:

#### 1. Workflow management:

Implement a simplified version of the workflow management system

#### 2.LaTeX-Based Exam Creation and analysis:

 Develop a module for flexible LaTeX-based exam, key, and solution creation.

#### 3. Database Integration:

 Establish basic database integration for handling workflow and content data.

# Where are we now?

- 1. Started learning JS and react
- 2. We have agreed on the design of the backend
- 3. We created a preliminary server with just a login option