SECOND REPORT
17/12/2024

GTU Internship Management System

An internship management system for GTU departments

by Void*

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1. Group Members:

Student Name	Student ID
Cemal BOLAT	210104004010
Musab KARDEŞ	210104004003
Gülçin HACIOSMANOĞLU	210104004012
Ömer Faruk OLKAY	210104004039
Ahmet Baha ÇEPNİ	210104004056

2.Project Overview:

The project involves creating a role-based user management and internship tracking platform. Users include Super Administrators, Department Administrators and Regular Users. Each user role has different permissions that differ primarily in the ability to manage other users. This system is designed to facilitate the management of student internship data at Gebze Technical University, making it easier to track documents, approval statuses and reports. The dashboard in the project allows users to more easily see analyses of company and student trends of which company they did their internships in. Additional functionalities include a reporting mechanism, search filters and email notifications.

3.User Stories:

a) User Authentication

Story: Musab is a Normal User, he wants to securely log into the platform using his credentials so that he can access his role-specific dashboard. This ensures his data and interactions are protected while granting him access to the tools he needs.

Scenario: Users who want to log in to the system must be created by a Super Admin or a department admin. If a user has an account with credentials (email and password) they can log in through a secure login page. If a user forgets their password, they can click on the "Forgot Password" link, receive a reset code via email, and update their password securely.

What Can Go Wrong:

- **Incorrect Credentials:** If incorrect credentials (email and password) are typed is `"Kullanıcı adı veya şifre hatalı!"` displayed.
- **Incorrect Email on Forgot Password:** If incorrect email is typed `"Kod gönderilirken bir hata oluştu.` Lütfen tekrar deneyin." is displayed.
- **Incorrect Verification Code:** If incorrect verification code is typed "`Kod doğrulanırken bir hata oluştu. Lütfen tekrar deneyin.`" is displayed.
- **New Password Violates Policy:** If the new password typed is not compliant with the policy `'Şifre sıfırlanırken bir hata oluştu. Lütfen tekrar deneyin.'` is displayed.
- **Missmatching in Confirm Password:** If the new password and confirm password are not the same `'Şifreler eşleşmiyor.'` is displayed.

b) Super Admin Story

Story: Cemal is a Super Admin; he wants to create Departments and Department Admins to ensure proper user and department access and management.

Scenario: The Super Admin logs into the platform using his credentials. He gains access to the Management panel, which is not visible to normal users. He clicks on his username in the navbar, opens the dropdown menu, and selects the Management panel option. From there, he can create Department Admins and Departments using related information on that page.

What Can Go Wrong:

- **Invalid Values for a New Department Admin:** If invalid values are present while trying to create a new Department Admin, one of these messages is displayed:

    - 'Geçersiz isim'
    - 'Geçersiz mail'
    - 'Şifre en az 8 karakter,bir büyük harf ve bir rakam içermelidir.'
    - 'Geçersiz rol'
    - 'Bu e-posta adresi zaten kullanımda'
    - 'Geçersiz departman adı'
    - 'Departman bulunamadı'.
- **Invalid Values for a New Department Admin:** If invalid values are present while trying to create a new Department, one of these messages is displayed:
    - 'Geçersiz departman adı'
    - 'Departman zaten var'

c) Department Admin Story

Story: Baha is a Department Admin, he wants to create Normal Users within his department, ensuring access is limited to authorized personnel so that he can maintain departmental security and focus.

Scenario: Department Admins log into the platform. Click on their username on the navbar, open a dropdown menu, and select the management panel option. From there, they can easily create Normal Users with predefined permissions specific to their department.

What Can Go Wrong:

- **Invalid Values for a New User:** If invalid values are present while trying to create a new User, one of these messages is displayed:
    - 'Geçersiz isim'
    - 'Geçersiz mail'
    - 'Şifre en az 8 karakter, bir büyük harf ve bir rakam içermelidir'
    - 'Geçersiz rol'
    - 'Bu e-posta adresi zaten kullanımda'.

d) Normal User Story

Story: Gülçin is a Normal User, she wants to access the platform without the ability to create new users, ensuring she can perform her role-specific tasks (displaying student internships in various ways) without modifying system configurations and display student internships in various ways.

Scenario: Normal Users log into the platform and can access their role-specific features without seeing options for user creation or management. They use the tools provided to them without administrative privileges. They can generate reports on the "Report" page, which is accessible to Department Admins and Normal users via a button labeled "Rapor Al" on the navbar

e) Internship Management

Story: Ömer is a Normal User, he wants to view and manage internship details for students in his department so that students' progress is tracked and organized effectively.

Scenario: Users and Department Admins log into the system and access buttons labeled "Öğrenci Ara" and "Öğrenci Notlandır" on the navbar. On the "Öğrenci Ara" page, they can search for internships by student name or student number and view relevant information in a table. Detailed data about each internship can be examined in a modal accessed via a button next to each table row. On the "Öğrenci Notlandır" page, users can evaluate internships by using buttons in the table to change the internship states to "passed" or "failed." Internship data is automatically populated from a "Google Drive Folder," which is regularly checked and updates the database as part of a scheduled job.

What Can Go Wrong:

- **Student Couldn't Be Found:** If there is no student found for that search key `'Öğrenci bulunamadı.'` is displayed.

f) Reporting and Document Generation

Story: Baha is a Department Admin, he wants to request the generation of a report from the "Report" page, so that he can obtain organized data for analysis.

Scenario: On the "Report" page, Normal Users and Department Admins can request a report by filling the form with details such as the report date, academic year, semester, and internship commission members. After entering this information, the report can be easily generated and downloaded.

What Can Go Wrong:

- **Invalid Report Data:** If there is no data for the selected academic year and semester `'Girilen dönem için staj bulunamadı.'` is displayed.

g) Email Notifications

Story: Gülçin is a Normal User, she wants to send email notifications to students for status updates, document requests, or reminders to ensure efficient communication.

Scenario: Department Admins and Normal Users can search for a student and send emails via the "Öğrenci Notlandır" page. They can click the button next to the evaluation buttons located at the end of the table row. This opens a modal where they can compose a custom message. After entering the message, emails can be sent for specific purposes such as status updates or document requests or reminders.

What Can Go Wrong:

- **Email Couldn't Be Send:** If email couldn't be sent because of the content or an unknown error `'Eposta gönderilirken bir hata oluştu.'` is displayed.

h) Dashboard

Story: Ömer is a Normal User, he wants to display an overview dashboard with cumulative and company-specific internship statistics so that he can track the overall success rate and identify trends or preferences for particular companies.

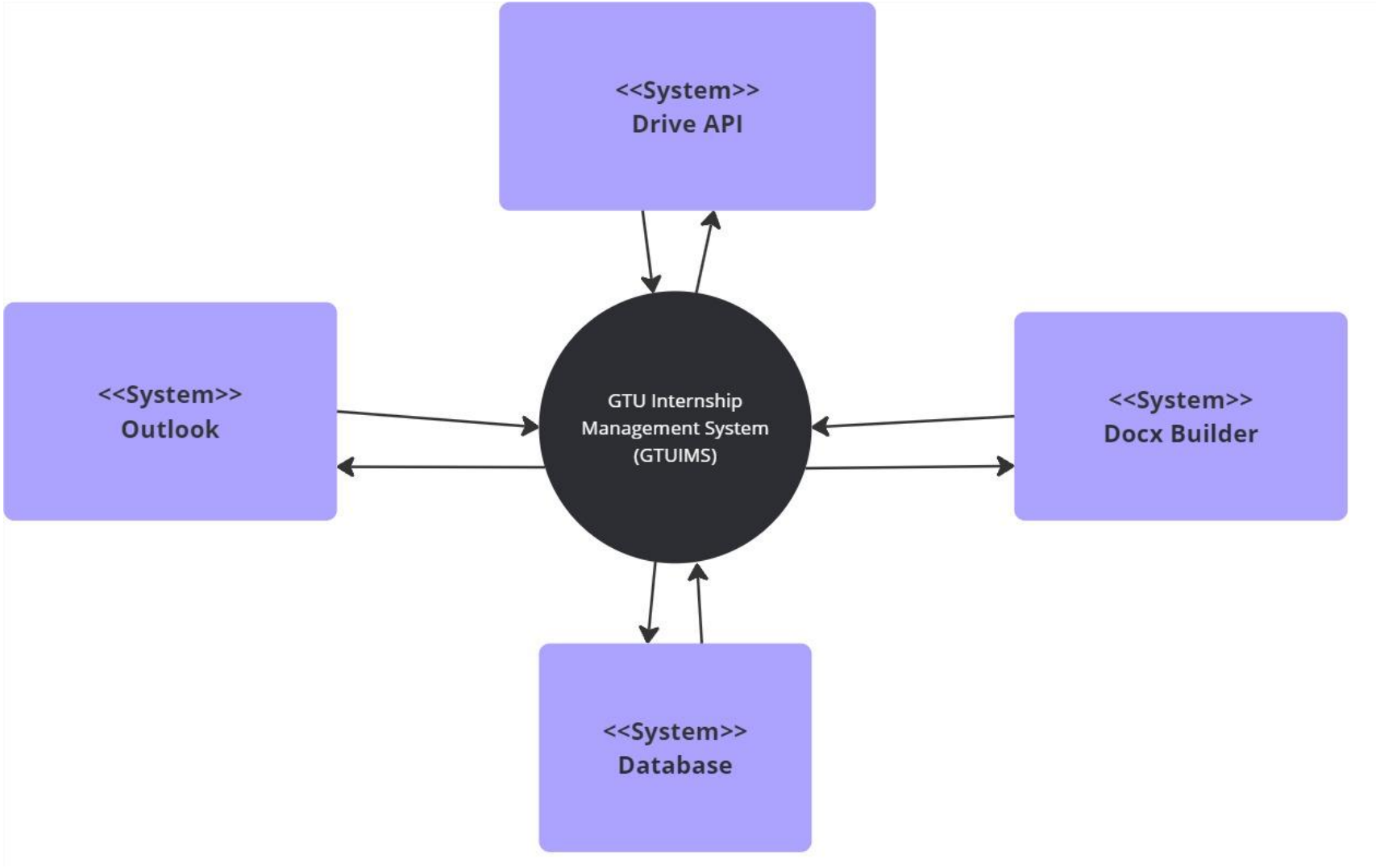
Scenario: Department Admins and Normal Users log into the platform and navigate to the "Dashboard" section via the navbar by clicking the GTÜ icon at the beginning of the navbar. The dashboard presents two stacked bar charts displaying success rates by term. The first chart shows cumulative data for a specific academic year, selectable via a dropdown at the top right of the chart. The second chart, similar in appearance, includes an additional dropdown next to the academic year selector to filter data by a specific company. This functionality enables quick identification of popular internship providers and monitoring of trends and success metrics over time.

4. Backlog Document

ISSUES	ISSUE TYPE	ID	PARENT	STATUS	ASSIGNEE	REPORTER	PRIORITY	SPRINT	USER STORY POINT
Learning Basic Requirements	Task	VOID-38	Server Setup	DONE	Musab KARDEŞ	Musab KARDEŞ	Medium	VOID Sprint 1	4
Learning Basic Requirements	Subtask	VOID-48	Learning Basic Requirements	DONE	Ahmet Baha ÇEPNİ	Cemal BOLAT	Medium	VOID Sprint 1	4
Learning Basic Requirements	Subtask	VOID-49	Learning Basic Requirements	DONE	Gülçin HACIOSMANOĞLU	Cemal BOLAT	Medium	VOID Sprint 1	4
Learning Basic Requirements	Subtask	VOID-50	Learning Basic Requirements	DONE	Cemal BOLAT	Cemal BOLAT	Medium	VOID Sprint 1	4
Learning Basic Requirements	Subtask	VOID-51	Learning Basic Requirements	DONE	Ömer Faruk OLKAY	Cemal BOLAT	Medium	VOID Sprint 1	4
Creating Data Base Schemas	Task	VOID-37	Server Setup	DONE	Musab KARDEŞ	Musab KARDEŞ	Medium	VOID Sprint 1	4
Creating Backend Server (Node.js / express / TS)	Task	VOID-44	Server Setup	DONE	Ömer Faruk OLKAY	Musab KARDEŞ	Medium	VOID Sprint 1	2
Data Base Connection	Task	VOID-43	Server Setup	DONE	Ahmet Baha ÇEPNİ	Musab KARDEŞ	Medium	VOID Sprint 1	2
Creating Frontend Server (React / TS)	Task	VOID-45	Server Setup	DONE	Gülçin HACIOSMANOĞLU	Musab KARDEŞ	Medium	VOID Sprint 1	2
Prod Enviromental Setup	Task	VOID-54	Server Setup	DONE	Musab KARDEŞ	Cemal BOLAT	Medium	VOID Sprint 2	8
CI/CD Trigger (GitHub Actions)	Subtask	VOID-56	Prod Enviromental Setup	DONE	Musab KARDEŞ	Cemal BOLAT	Medium	VOID Sprint 2	8
Admin Features By Roles	User Story	VOID-23	User Additional Page (Admin)	IN PROGRESS	Ömer Faruk OLKAY	Cemal BOLAT	Medium	VOID Sprint 2	8
Creating Super Admin Page UI	Subtask	VOID-59	Admin Features By Roles	IN PROGRESS	Ömer Faruk OLKAY	Cemal BOLAT	Medium	VOID Sprint 2	2
Creating Department Admin Page UI	Subtask	VOID-60	Admin Features By Roles	IN PROGRESS	Ömer Faruk OLKAY	Cemal BOLAT	Medium	VOID Sprint 2	2
Creating Super Admin APIs	Subtask	VOID-65	Admin Features By Roles	IN PROGRESS	Ömer Faruk OLKAY	Cemal BOLAT	Medium	VOID Sprint 2	2
Creating Department Admin APIs	Subtask	VOID-65	Admin Features By Roles	IN PROGRESS	Ömer Faruk OLKAY	Cemal BOLAT	Medium	VOID Sprint 2	2
User Addition Page Based on Roles	User Story	VOID-29	User Additional Page (Admin)	TO DO	Ahmet Baha ÇEPNİ	Cemal BOLAT	Low	VOID Sprint 2	2
Different Pages based on their roles	Subtask	VOID-67	User Addition Page Based on Roles	TO DO	Ahmet Baha ÇEPNİ	Cemal BOLAT	Low	VOID Sprint 2	2
Login Page - User Login	User Story	VOID-21	User Management System	IN PROGRESS	Gülçin HACIOSMANOĞLU	Cemal BOLAT	Highest	VOID Sprint 2	8
Login Page Connection Between UI and Backend	Subtask	VOID-62	Login Page - User Login	IN PROGRESS	Gülçin HACIOSMANOĞLU	Cemal BOLAT	Highest	VOID Sprint 2	4
Jwt Creating System	Subtask	VOID-61	Login Page - User Login	IN PROGRESS	Gülçin HACIOSMANOĞLU	Cemal BOLAT	Highest	VOID Sprint 2	4
Login Page - Password Change	User Story	VOID-22	User Management System	TO DO	Ahmet Baha ÇEPNİ	Cemal BOLAT	Low	VOID Sprint 2	4
Sending code to Mail	Subtask	VOID-63	Login Page - Password Change	TO DO	Ahmet Baha ÇEPNİ	Cemal BOLAT	Low	VOID Sprint 2	2
Changing Password according to code	Subtask	VOID-64	Login Page - Password Change	TO DO	Ahmet Baha ÇEPNİ	Cemal BOLAT	Low	VOID Sprint 2	2
Basic UI for Login Page	Task	VOID-46	User Management System	DONE	Cemal BOLAT	Cemal BOLAT	Medium	VOID Sprint 1	4
Basic UI for Forget Password Page	Subtask	VOID-52	Basic UI for Login Page	DONE	Gülçin HACIOSMANOĞLU	Cemal BOLAT	Medium	VOID Sprint 1	4
Page for Verification of Code Received from Email	Subtask	VOID-53	Basic UI for Login Page	DONE	Gülçin HACIOSMANOĞLU	Cemal BOLAT	Medium	VOID Sprint 1	4
New Tool for Super Fetching	Task	VOID-72	User Management System	IN PROGRESS	Gülçin HACIOSMANOĞLU	Cemal BOLAT	Highest	VOID Sprint 2	4
Logout System	Task	VOID-73	User Management System	TO DO	Ahmet Baha ÇEPNİ	Cemal BOLAT	Low	VOID Sprint 2	4
Backend implementation of logout system.	Subtask	VOID-74	Logout System	TO DO	Ahmet Baha ÇEPNİ	Cemal BOLAT	Low	VOID Sprint 2	3
Basic UI for logout Button.	Subtask	VOID-75	Logout System	TO DO	Ahmet Baha ÇEPNİ	Cemal BOLAT	Lowest	VOID Sprint 2	1

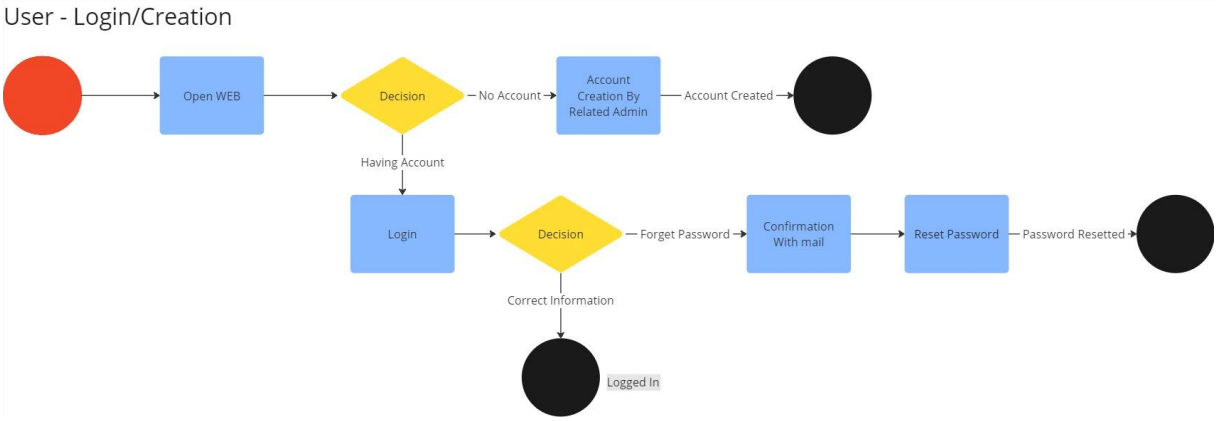
ISSUES	ISSUE TYPE	ID	PARENT	STATUS	ASSIGNEE	REPORTER	Priority	SPRINT	User Story Points
Dashboard Page Missing Token control	Bug	VOID-85	Frontend / UI Bugs	DONE	Cemal BOLAT	Cemal BOLAT	Highest	VOID SPRINT 3	1
Navbar doesnt refresh after login	Bug	VOID-86	Frontend / UI Bugs	DONE	Ahmet Baha Çepni	Cemal BOLAT	Highest	VOID SPRINT 3	2
Navbar UI Last Version	Bug	VOID-104	Frontend / UI Bugs	DONE	Cemal BOLAT	Cemal BOLAT	Medium	VOID SPRINT 5	2
Departman admin creation didn't reset the password	Bug	VOID-105	Backend Bugs	DONE	Cemal BOLAT	Cemal BOLAT	Medium	VOID SPRINT 5	1
Missing hashing passwords in database	Bug	VOID-79	Backend Bugs	DONE	Cemal BOLAT	Cemal BOLAT	Highest	VOID SPRINT 3	1
Email Confirmation Code Error	Bug	VOID-84	Backend Bugs	DONE	Ahmet Baha Çepni	Gülçin Hacıosmanoğlu	Low	VOID SPRINT 3	2
Password reset does not require a password that complies with the encryption policy.	Bug	VOID-81	Backend Bugs	DONE	Ahmet Baha Çepni	Cemal BOLAT	Highest	VOID SPRINT 4	1
Viewing Internship Details	User Story	VOID-26	Data UI	DONE	Gülçin Hacıosmanoğlu	Cemal BOLAT	High	VOID SPRINT 4	4
Basic UI for Student Internship	Sub Task	VOID-71	Viewing Internship Details	DONE	Gülçin Hacıosmanoğlu	Cemal BOLAT	Medium	VOID SPRINT 4	2
Basic UI for Student model	Sub Task	VOID-89	Viewing Internship Details	DONE	Gülçin Hacıosmanoğlu	Cemal BOLAT	Medium	VOID SPRINT 4	2
Dashboard That Has Company Based Internship Graph	User Story	VOID-58	Data UI	DONE	Musab Kardeş	Musab Kardeş	High	VOID SPRINT 4	8
Api Request for Filtered Datas.	Sub Task	VOID-87	Dashboard That Has Company Based Internship Graph	DONE	Musab Kardeş	Musab Kardeş	High	VOID SPRINT 4	4
UI Component For Both Graphs	Sub Task	VOID-88	Dashboard That Has Company Based Internship Graph	DONE	Musab Kardeş	Musab Kardeş	High	VOID SPRINT 4	4
Search for Student Information	User Story	VOID-25	Data UI	DONE	Ahmet Baha Çepni	Cemal BOLAT	Medium	VOID SPRINT 3	4
Backend API for Student Searching Panel.	Sub Task	VOID-76	Search for Student Information	DONE	Ahmet Baha Çepni	Cemal BOLAT	Medium	VOID SPRINT 3	2
Basic UI for Student Searching Panel	Sub Task	VOID-69	Search for Student Information	DONE	Ahmet Baha Çepni	Cemal BOLAT	Medium	VOID SPRINT 3	2
Making Student Filtering System Responsive	Task	VOID-95	Data UI	DONE	Gülçin Hacıosmanoğlu	Cemal BOLAT	Low	VOID SPRINT 4	1
Making Pages Responsive	Task	VOID-98	Data UI	DONE	Cemal BOLAT	Cemal BOLAT	Low	VOID SPRINT 4	4
Departmen Admin UI Last Version	Sub Task	VOID-99	Making Pages Responsive	DONE	Cemal BOLAT	Cemal BOLAT	Low	VOID SPRINT 4	2
Super Admin UI Last Version	Sub Task	VOID-100	Making Pages Responsive	DONE	Cemal BOLAT	Cemal BOLAT	Low	VOID SPRINT 4	2
Pagination in Student Search	Task	VOID-110	Data UI	Completed	Cemal BOLAT	Cemal BOLAT	Low	VOID SPRINT 5	1
Making responsive student search	Task	VOID-111	Data UI	Completed	Cemal BOLAT	Cemal BOLAT	Low	VOID SPRINT 5	1
Student Search Page no Need email	Task	VOID-112	Data UI	Completed	Cemal BOLAT	Cemal BOLAT	Low	VOID SPRINT 5	1
Saving Internship Information and Student Data	User Story	VOID-24	Data Manupilation	In Progress	Ahmet Baha Çepni	Cemal BOLAT	Highest	VOID SPRINT 4-5	8
Getting All Students with information to database	Sub Task	VOID-102	Saving Internship Information and Student Data	DONE	Ömer Faruk Olkay	Cemal BOLAT	Highest	VOID SPRINT 4-5	8
SGK Document Upload Request	User Story	VOID-27	User Management System	DONE	Gülçin Hacıosmanoğlu	Cemal BOLAT	Low	VOID SPRINT 4	2
Docx Report Generation	User Story	VOID-30	Data Manupilation	TO DO	Ahmet Baha Çepni	Cemal BOLAT	Highest	VOID SPRINT 5	10
Basic UI for report creation	Sub Task	VOID-119	Docx Report Generation	Completed	Cemal BOLAT	Cemal BOLAT	Medium	VOID SPRINT 5	8
Creating Docx document with given format	Sub Task	VOID-120	Docx Report Generation	TO DO	Ömer Faruk Olkay	Cemal BOLAT	Highest	VOID SPRINT 5	2
User Logs	User Story	VOID-31	Data Manupilation	TO DO	Gülçin Hacıosmanoğlu	Cemal BOLAT	Medium	VOID SPRINT 5	4
New Table for Years to Specify Term Intervals	Task	VOID-118	Data Manupilation	DONE	Musab Kardeş	Cemal BOLAT	High	VOID SPRINT 5	2
Dashboard > dashboard-actual	Task	VOID-109	Data UI	Completed	Cemal BOLAT	Cemal BOLAT	Low	VOID SPRINT 5	1
Creating Changing Term Intervals	Task	VOID-117	Data Manupilation	In Progress	Musab Kardeş	Cemal BOLAT	High	VOID SPRINT 5	8
Student Evoluation Page	Task	VOID-108	Data Manupilation	TO DO	Gülçin Hacıosmanoğlu	Cemal BOLAT	High	VOID SPRINT 5	4

5.Context Model

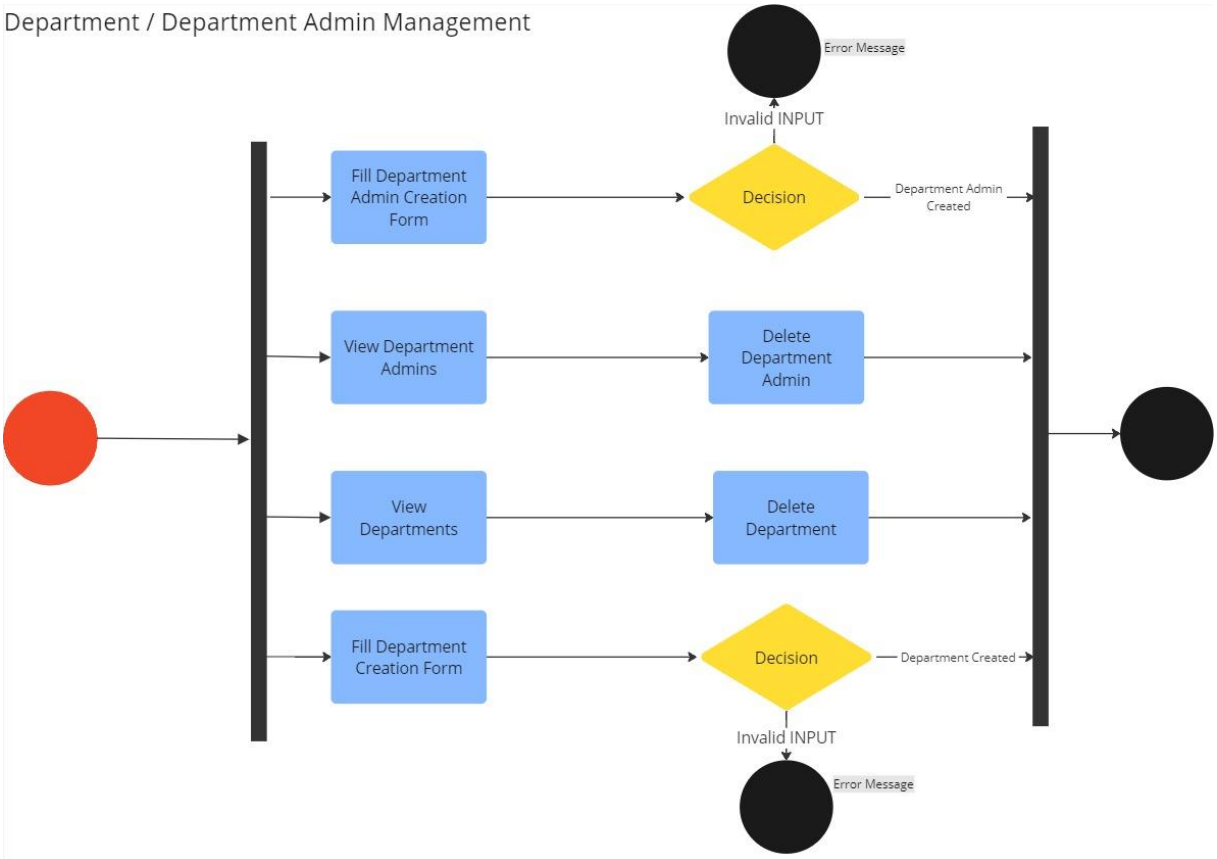


6.Process Model

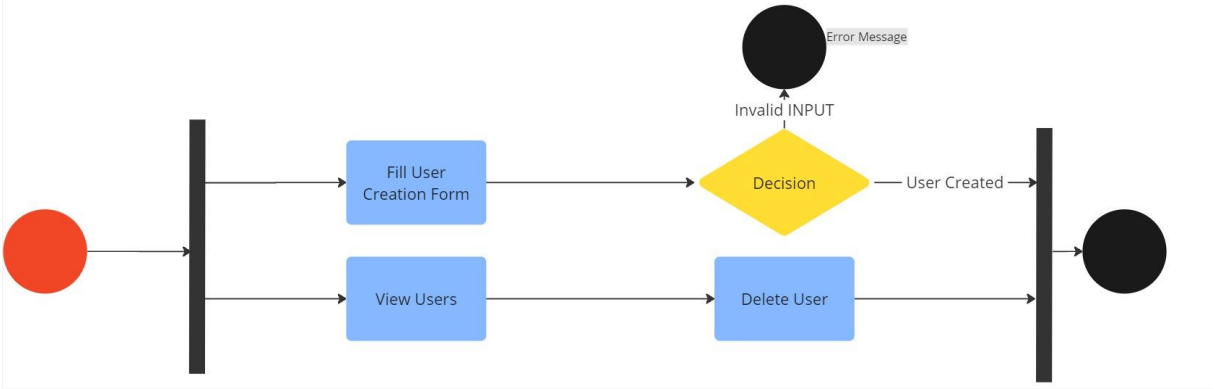
User - Login/Creation



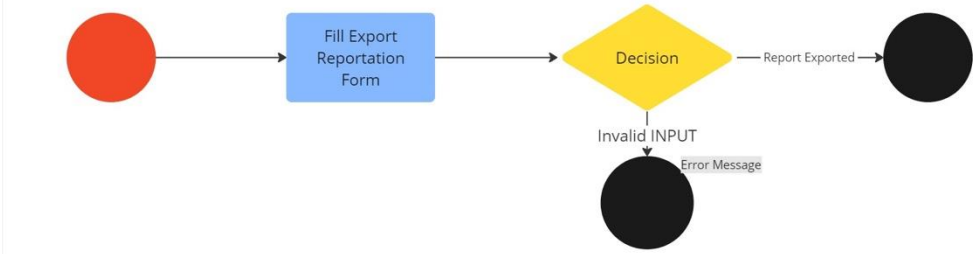
Department / Department Admin Management



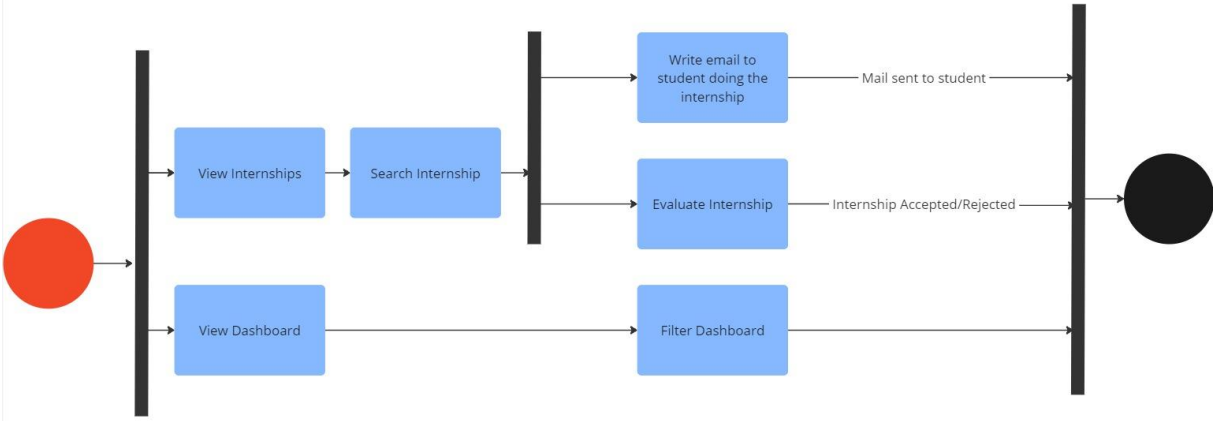
User Management



Export Report

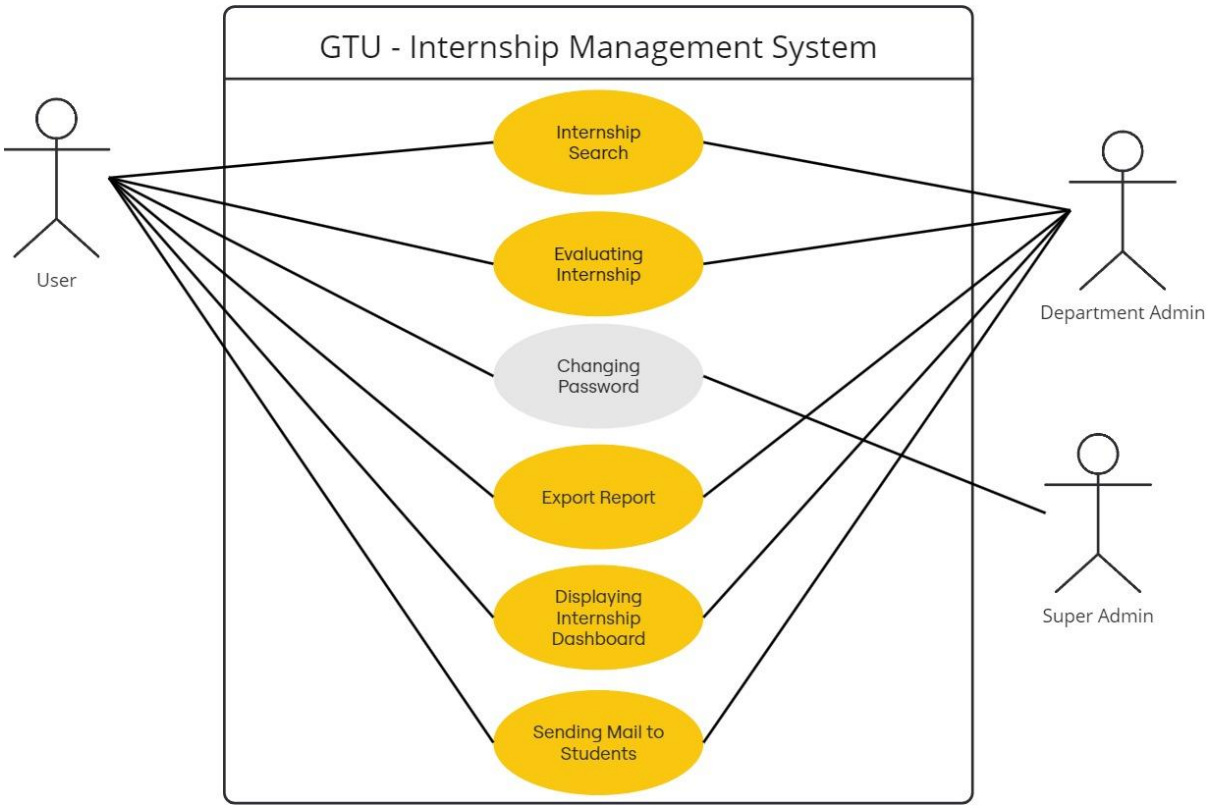


Internship and Student Management

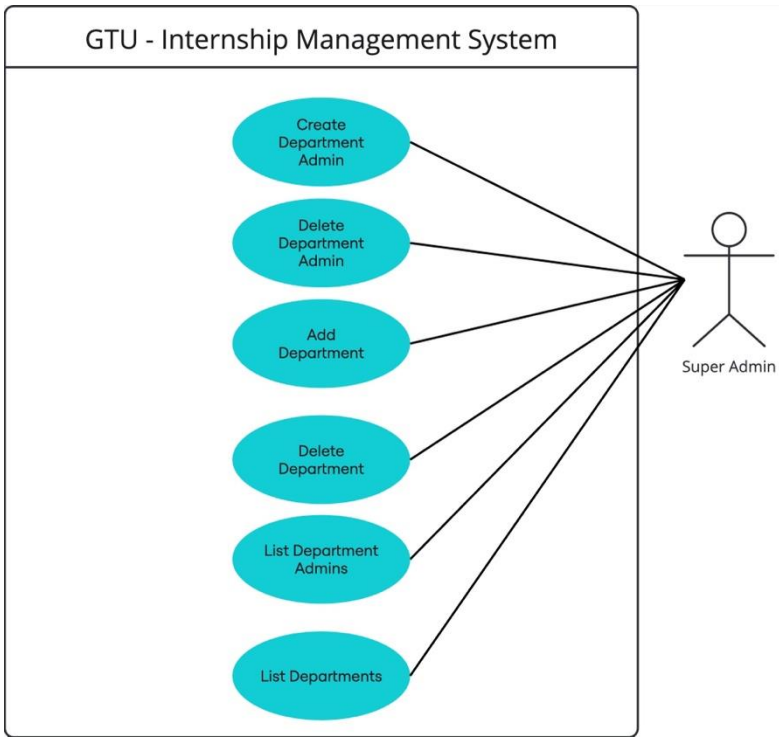


7.Use case diagram (fully changed):

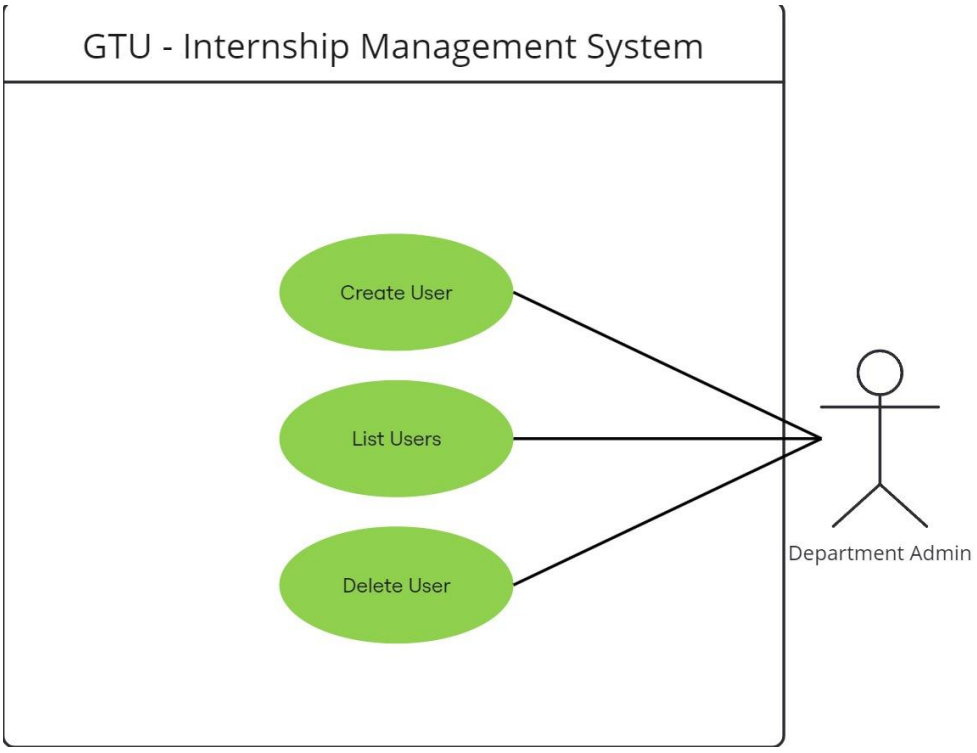
- User – Department Admin – Super Admin



- Super Admin



- Department Admin



Detailed Tables

System	GTU - Internship Management System
Use Case	List Departments
Actors	Super Admin
Description	When the Super Admin enters the super admin panel, they are automatically presented with a list of all departments. This list is shown in a structured format with proper pagination to ensure ease of navigation. The Super Admin can view department names, and the data is presented in an organized manner.
Data	Departments' list with name.
Stimulus	Super Admin entered own management panel.
Response	Departments are listed with proper pagination.
Comments	Only Super Admin has exclusive rights on listing departments.

System	GTU - Internship Management System
Use Case	Create Department
Actors	Super Admin
Description	The Super Admin initiates the action to create a new department in the system by providing the department name. Upon submission, the system validates the input and instantly updates the department records.
Data	Department Name
Stimulus	Super Admin triggers the creation of a new department by entering the department name. Then clicks create button.
Response	The system updates the department records instantly. It may show proper errors for invalid or already existed names.
Comments	Only Super Admin has exclusive rights to modify the system's structure by managing departments.

System	GTU - Internship Management System
Use Case	Delete Department
Actors	Super Admin
Description	The Super Admin initiates the action to delete an existing department from the system by selecting. Once the action is confirmed, the system updates the department records instantly and removes the department from the database.
Data	Department Name
Stimulus	Super Admin clicked the specified department’s delete button.
Response	The system instantly updates the department records by removing the specified department.
Comments	Only the Super Admin has exclusive rights to modify the system's structure, including the deletion of departments. Other roles do not have permission to perform this action. Deleting department also deletes all users at specified department.

System	GTU - Internship Management System
Use Case	List Department Admins
Actors	Super Admin
Description	When the Super Admin enters the super admin panel, they are automatically presented with a list of all department admins. This list is shown in a structured format with proper pagination to ensure ease of navigation. The Super Admin can view names, mails, departments and the data is presented in an organized manner.
Data	Department admins' list with name, mail, department.
Stimulus	Super Admin entered super admin panel.
Response	Department admins are listed with proper pagination.
Comments	Only Super Admin has exclusive rights on listing department admins.

System	GTU - Internship Management System
Use Case	Create Department Admin
Actors	Super Admin
Description	The Super Admin initiates the creation of a new Department Admin by filling form with necessary inputs. After filling in the details, the Super Admin clicks the create button to submit the request. The system validates the inputs then instantly updates department admin list.
Data	Department Admin's name, mail, password, department.
Stimulus	Super Admin triggers the creation of a new department admin by entering the proper inputs. Then clicks create button.
Response	Department Admin Created: The system updates the department records instantly. Creation Failed: The system gives appropriate errors for appropriate conditions such as invalid password, mail has been used before, invalid name, etc.
Comments	The Super Admin has exclusive rights to modify the system's structure by managing department admins. The password must follow our password policy which is: minimum 8 characters, at least one uppercase letter, one number, and one special character.

System	GTU - Internship Management System
Use Case	Delete Department Admin
Actors	Super Admin
Description	The Super Admin initiates the action to delete an existing department admin from the system by selecting. Once the action is confirmed, the system updates the department admin records instantly and removes the department admin from the database.
Data	Department Admin’s mail.
Stimulus	Super Admin clicked the specified department admin’s delete button.
Response	The system instantly updates the department admin records by removing the specified department admin.
Comments	Only the Super Admin has exclusive rights to modify the system's structure, including the deletion of department admins. Other roles do not have permission to perform this action.

System	GTU - Internship Management System
Use Case	List Users
Actors	Department Admin
Description	When the Department Admin enters the department admin panel, they are automatically presented with a list of all users. This list is shown in a structured format with proper pagination to ensure ease of navigation. The Department Admin can view names, mails and the data is presented in an organized manner.
Data	Users’ list with name and mail.
Stimulus	Department Admin entered department admin panel.
Response	Users are listed with proper pagination.
Comments	Only Department Admin has exclusive rights on listing users.

System	GTU - Internship Management System
Use Case	Create User
Actors	Department Admin
Description	The Department Admin initiates the creation of a new Users by filling form with necessary inputs. After filling in the details, the Department Admin clicks the create button to submit the request. The system validates the inputs then instantly updates user list.
Data	User’s name, mail and password.
Stimulus	Department Admin triggers the creation of a new user by entering the proper inputs. Then clicks create button.
Response	User Created: The system updates the user records instantly. Creation Failed: The system gives appropriate errors for appropriate conditions such as invalid password, mail has been used before, invalid name, etc.
Comments	The Department Admin has exclusive rights to modify the system's structure by managing users. The password must follow our password policy which is: minimum 8 characters, at least one uppercase letter, one number, and one special character.

System	GTU - Internship Management System
Use Case	Delete User
Actors	Department Admin
Description	The Department Admin initiates the action to delete an existing user from the system by selecting. Once the action is confirmed, the system updates the user records instantly and removes the user from the database.
Data	User’s mail. Department Admin’s department.
Stimulus	Department Admin clicked the specified user’s delete button.
Response	The system instantly updates the user records by removing the specified user.
Comments	Only the Department Admin has exclusive rights to modify the system's structure, including the deletion of users. Other roles do not have permission to perform this action.

System	GTU - Internship Management System
Use Case	Changing Password
Actors	User - Department Admin – Super Admin
Description	When a user requests to change their password, the system sends an authentication code to the provided email address. The user enters this code to verify their identity. After verification, the system allows the user to set a new password. If the email is invalid, the authentication code is incorrect, or the new password does not meet the criteria, the process is reset to protect user privacy.
Data	New Password, Mail, Authentication Code
Stimulus	The user initiates a password change by entering their email and requesting an authentication code.
Response	Response has multiple process. -The system sends an authentication code to the provided email. -After receiving the code, the user inputs it for verification. -Once verified, the user can set a new password. -If there are errors (invalid email, incorrect code, or invalid password), the system resets the process and requires the user to start over.
Comments	The system sends the authentication email via Gmail, and users should check their spam folders if they do not receive it promptly. For privacy reasons, any error resets the entire process, so users must carefully follow the steps.

System	GTU - Internship Management System
Use Case	Export Report
Actors	User - Department Admin
Description	The User or Department Admin fills out a form with proper inputs. After completing the form, they click the "Export Report" button to generate a report that contains all the internship information and results for the selected semester and students.
Data	• Date, Semester • Commission chairman, Two Commissioners • Student Information and Internship results.
Stimulus	The User or Department Admin clicks the "Export Report" button after providing the necessary information.
Response	The system generates and provides the user with an exported document that contains the full internship information and results for the specified terms (semester). The document is available for download or immediate use.
Comments	The date refers to the commission meeting, while the semester indicates the students who have completed their internships during that period.

System	GTU - Internship Management System
Use Case	Displaying Internship Dashboard
Actors	User - Department Admin
Description	The User or Department Admin views the internship dashboard, which displays statistics such as the number of students who passed or failed their internships. The dashboard allows users to filter the data based on various criteria such as term or company. One dashboard lists all internships filtered by term, while another includes an additional filter for companies, providing more detailed results based on company-specific internships.
Data	Internships information: term, company, results
Stimulus	The User or Department Admin selects filters (term and/or company) and views the updated internship statistics.
Response	The dashboard dynamically updates and displays internship records based on the selected filters. If the company filter is applied, it provides specific details about internships at that company; otherwise, it shows general term-based data.
Comments	There are two dashboards: • One that lists all internships based on the selected term. • Another that allows additional filtering by company to provide more granular internship statistics.

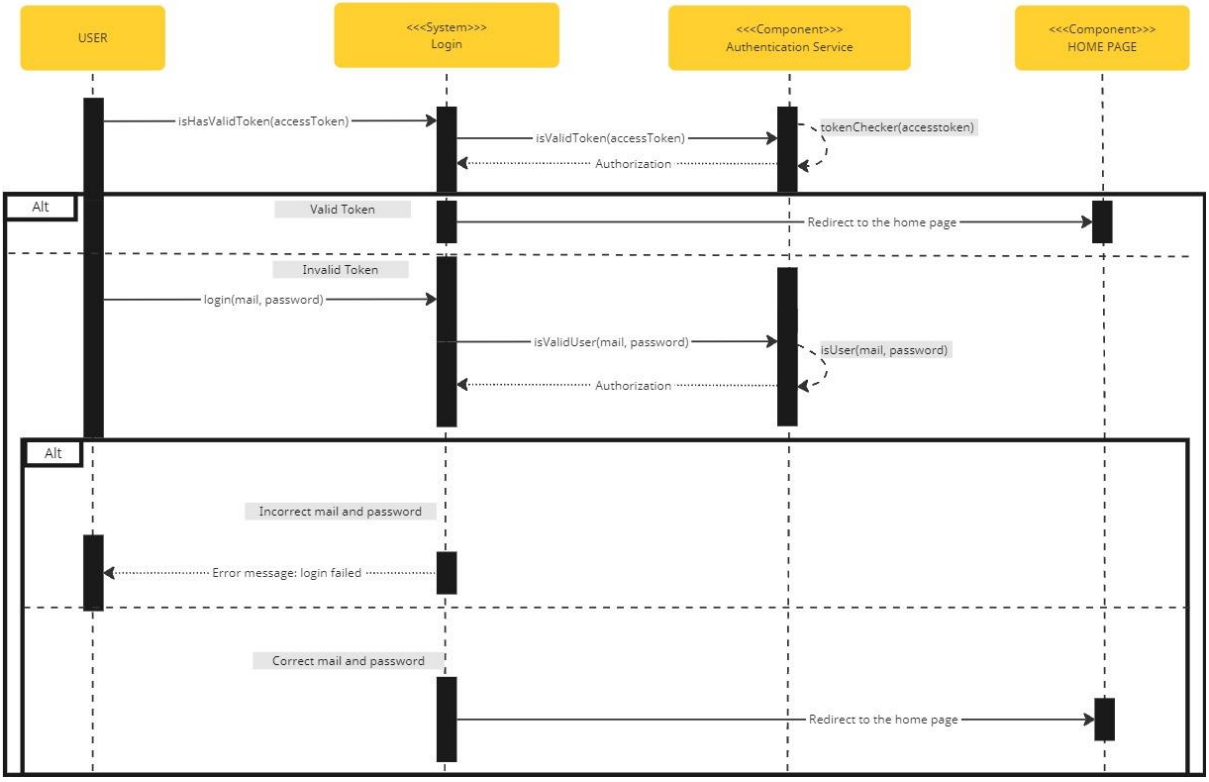
System	GTU - Internship Management System
Use Case	Internship Search
Actors	User - Department Admin
Description	The User or Department Admin uses the search functionality to find specific internships by applying filters. Upon submitting the search request, the system retrieves and displays a list of internships that match the search criteria. After the search results are displayed, users can view detailed information about each internship.
Data	All internships with details. Filtering options like student name, internship term etc.
Stimulus	The User or Department Admin enters search criteria and submits the search request.
Response	The system processes the request and returns a list of internships that match the search filters. Users can click on each result to view detailed information about the selected internship.
Comments	Both the User and Department Admin have access to the internship search feature. After performing a search, they can examine more detailed information about the internships in the results.

System	GTU - Internship Management System
Use Case	Evaluating Internship
Actors	User - Department Admin
Description	The User or Department Admin evaluates a student's internship by reviewing the internship. Once the evaluation is completed, the system updates the internship records based on the evaluation results. The updated results are reflected in the detailed information of the internship immediately.
Data	Internship and Student information.
Stimulus	The User or Department Admin initiates the evaluation process for an internship.
Response	The system updates the internship records according to the evaluation result, which is instantly reflected in the detailed internship information.
Comments	Both Users and Department Admins are authorized to evaluate internships. The evaluation process directly impacts the detailed information of the internship in real time.

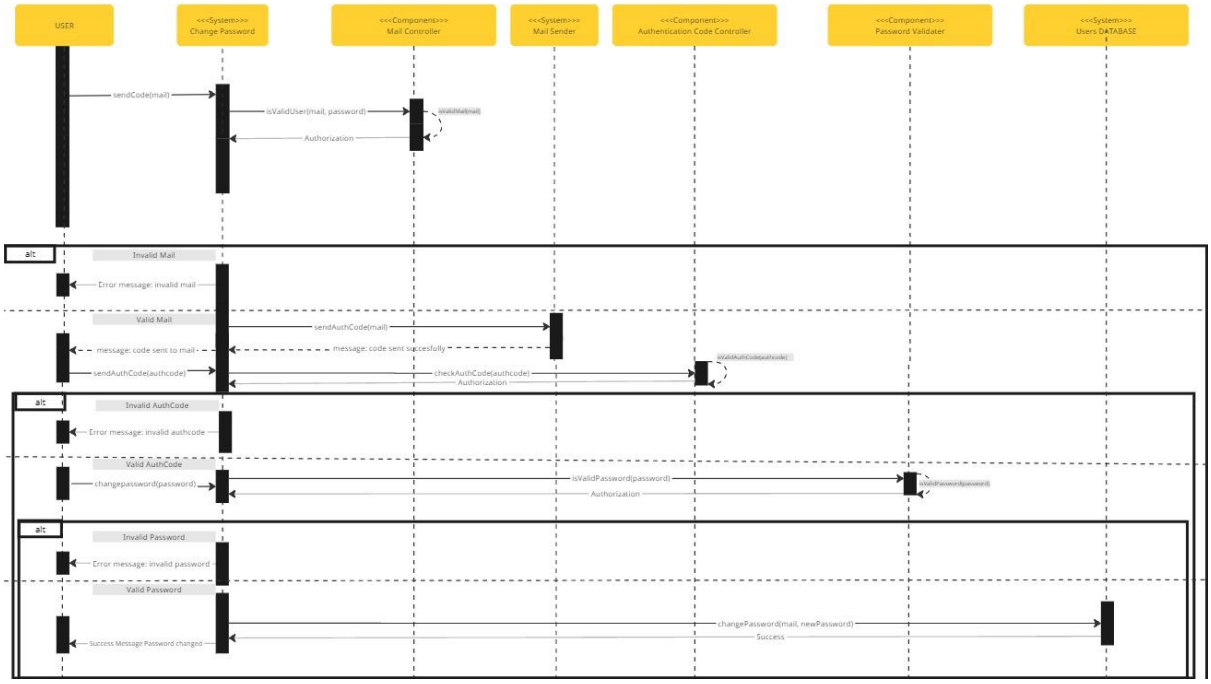
System	GTU - Internship Management System
Use Case	Sending Mail to Student
Actors	User - Department Admin
Description	The User or Department Admin clicks mail button for specified student. After clicking mail button write message then clicks send button.
Data	Student's email, custom message
Stimulus	The User or Department Admin clicks the "Mail" button, enters a message in the modal, and clicks the "Send" button to send the email.
Response	The system sends the email to the student's registered email address with the provided message. If the email is successfully sent, a confirmation is shown; if there's an error (e.g., invalid email), the system displays an appropriate error message.
Comments	Feature helps user to communicate with student directly, The system sends message via Gmail, and users should check their spam folders if they do not receive it promptly

8.Sequence Diagrams:

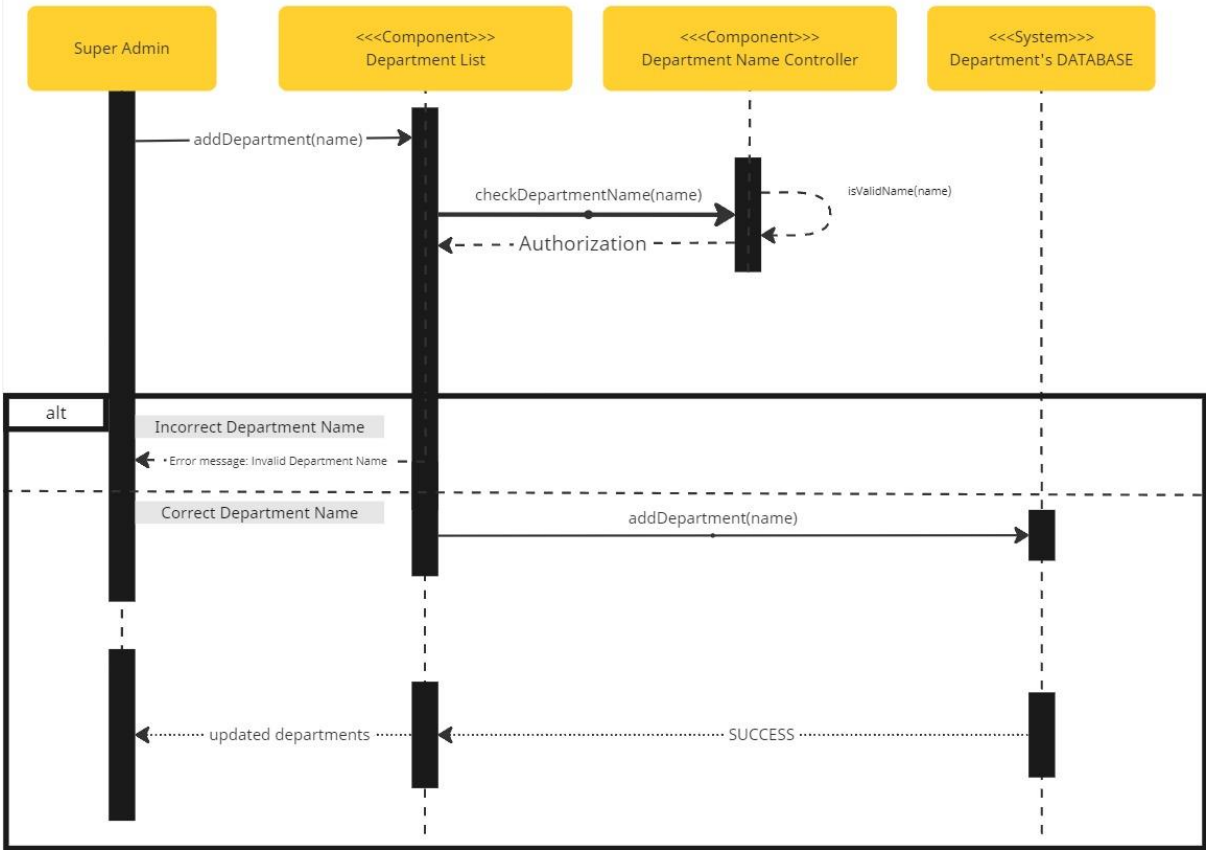
Login



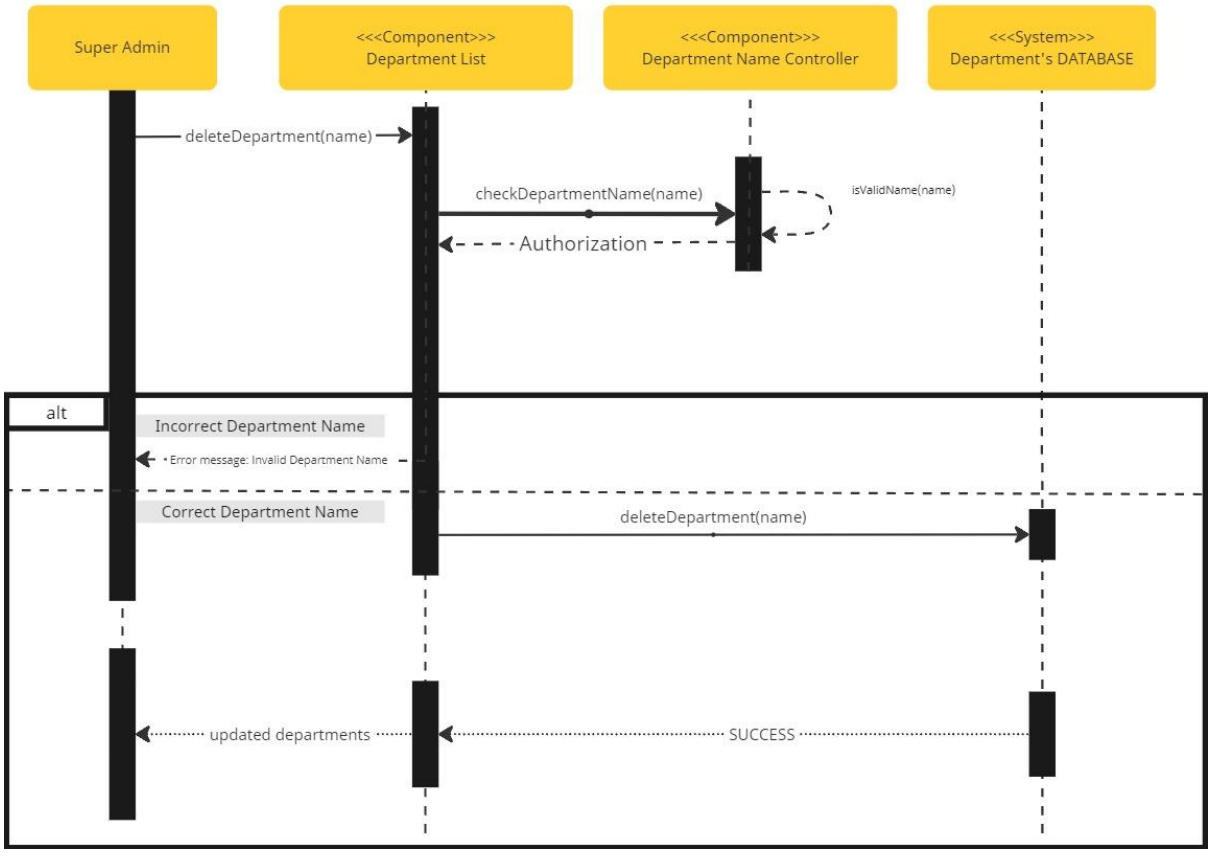
ForgotPassword



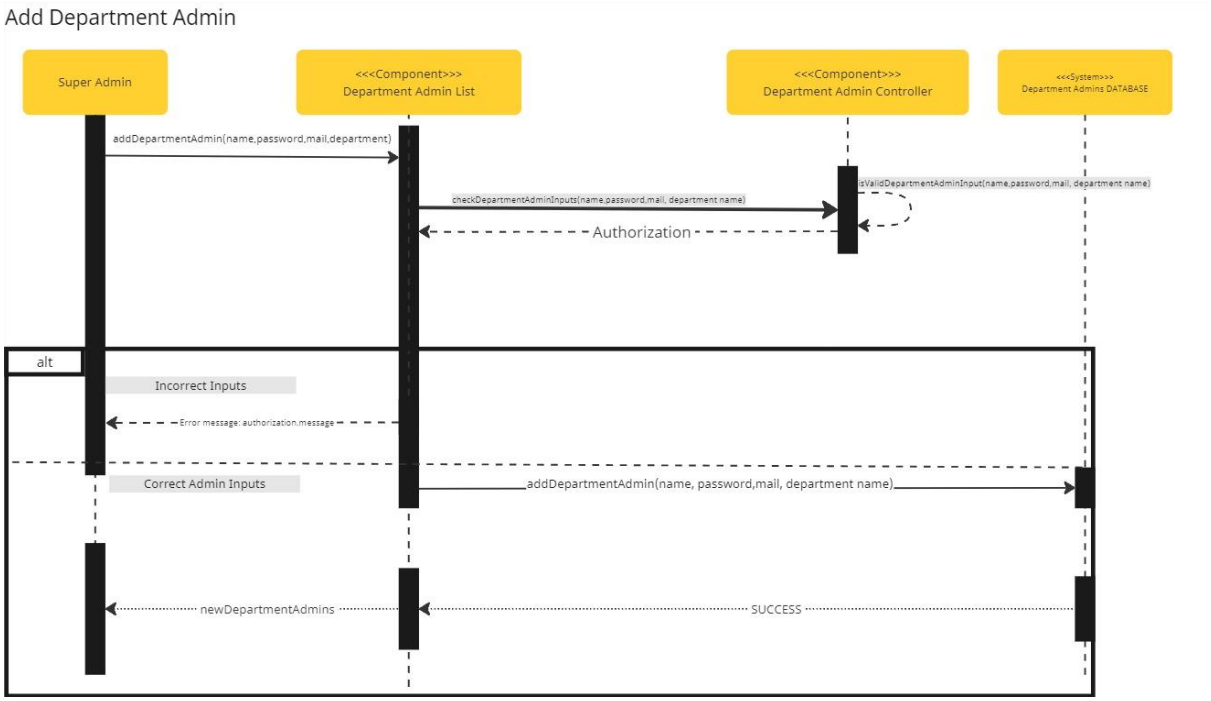
Add Department



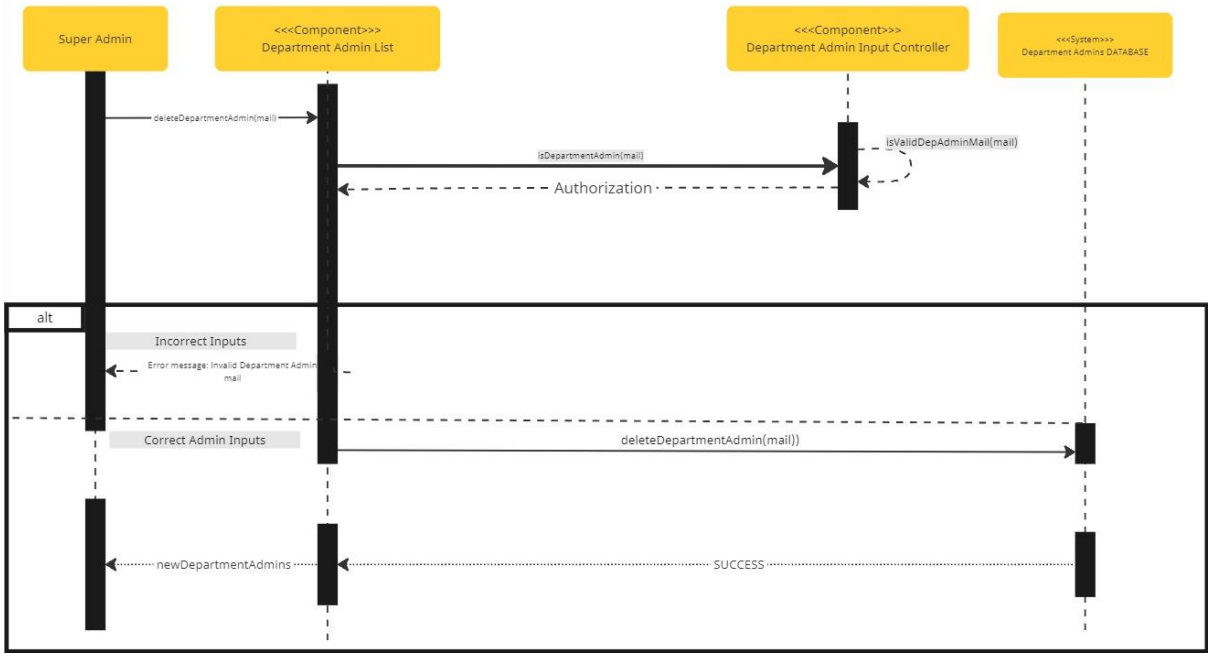
Delete Department



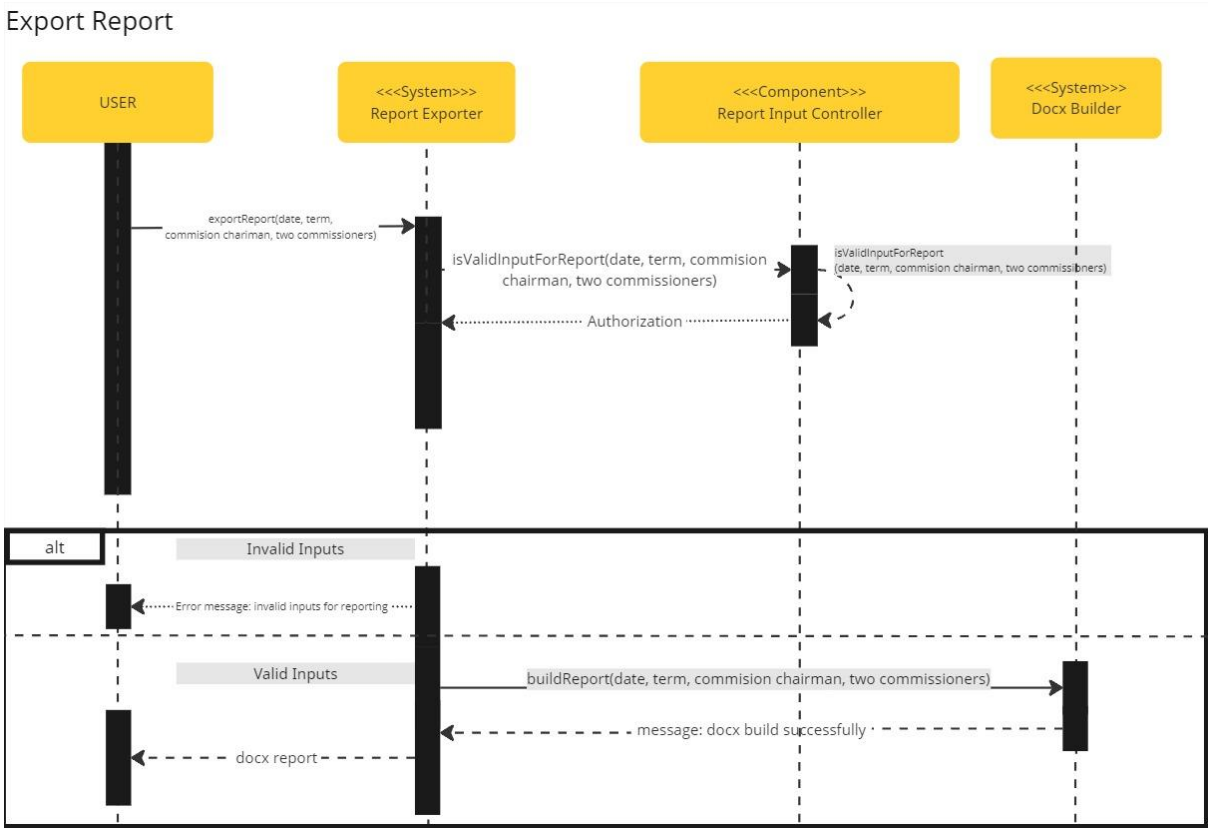
Add Department Admin



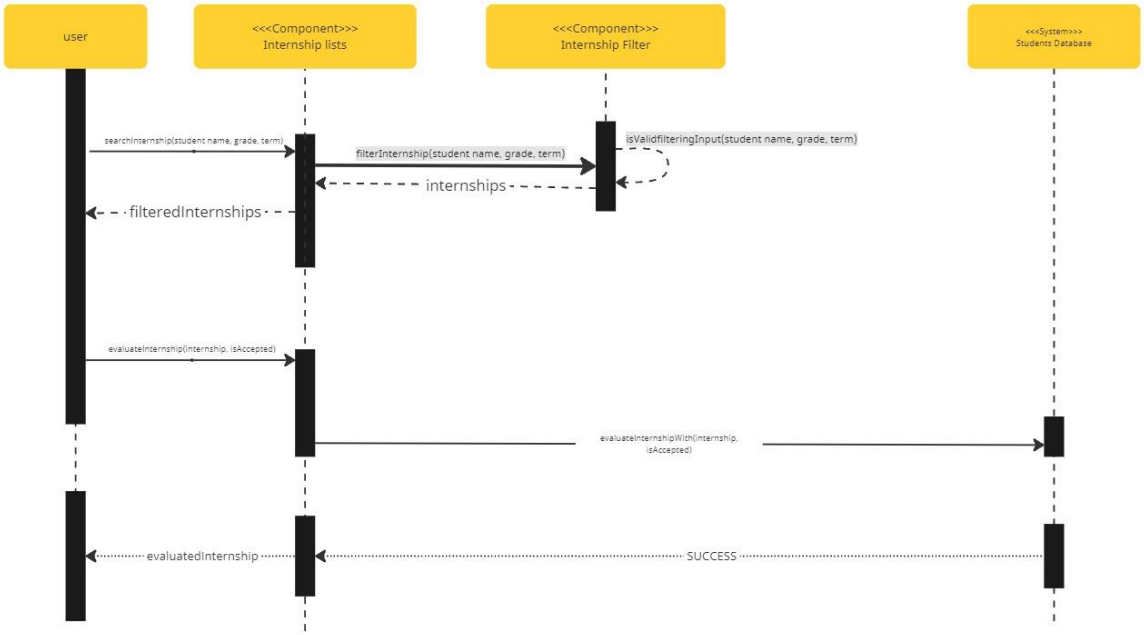
Delete Department Admin



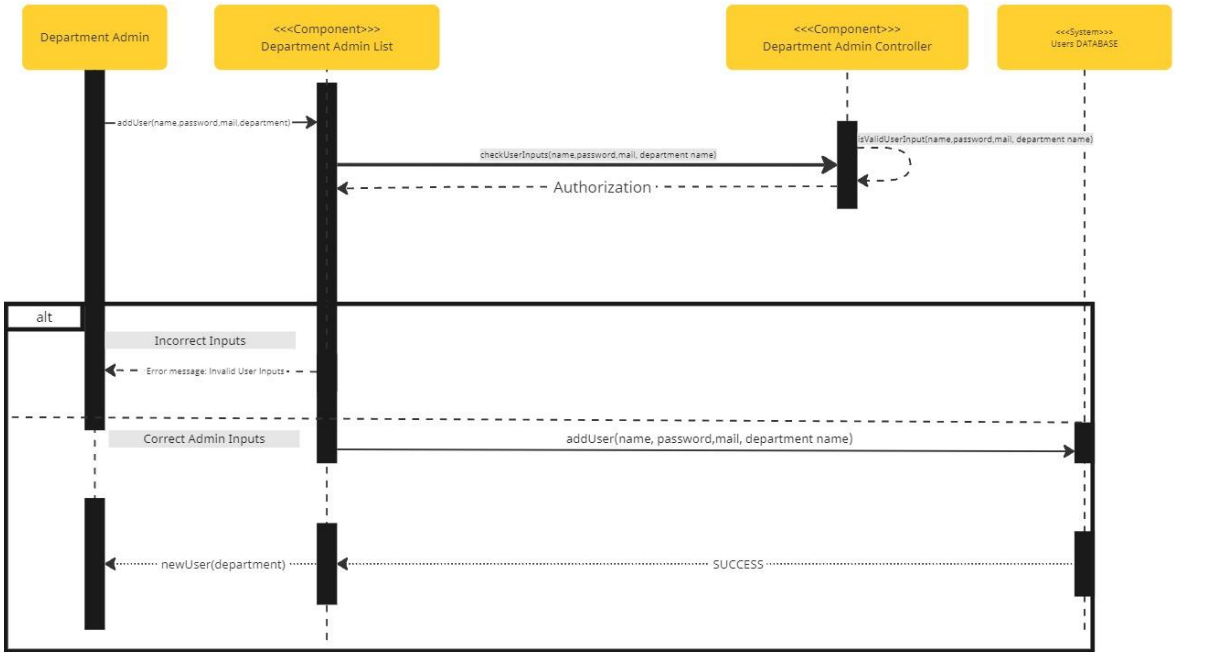
Export Report



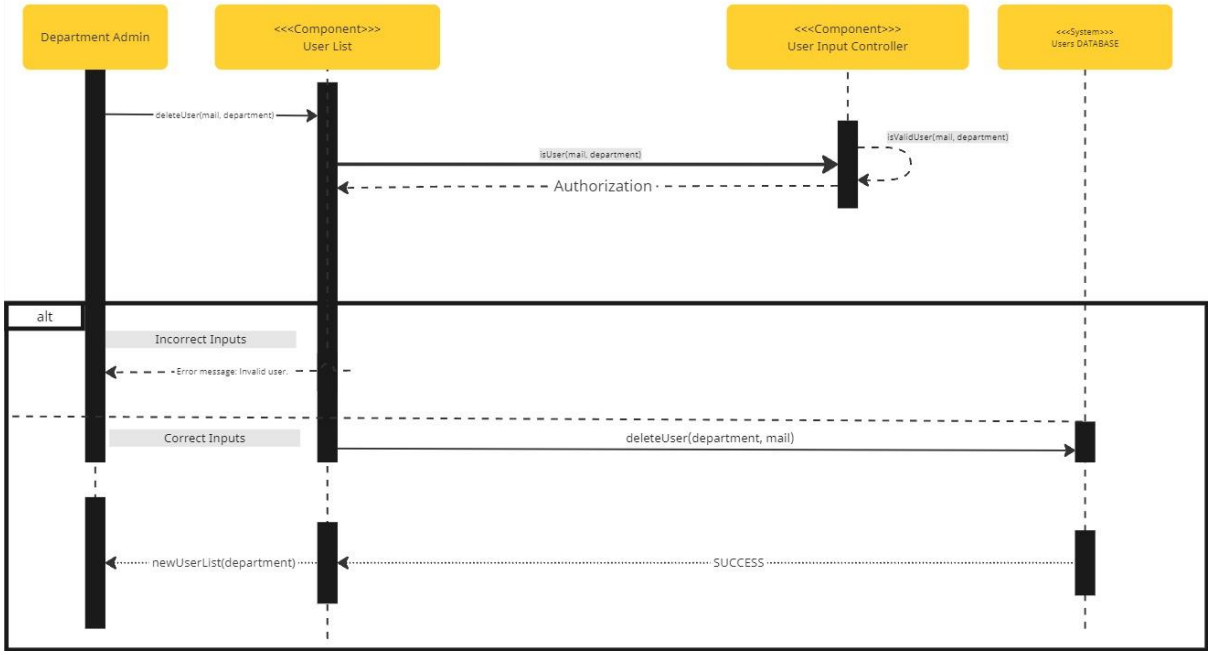
EvaluateInternship



Add User



Delete User



9. Working Graphical Interface (Video Link)

https://www.youtube.com/watch?v=UIf809AcmN4

10.Test Case Documents:

Test Case ID	LoginPage-1	**Test Case Description**	Ensures user accessibility to login page.		
Created By	Cemal Bolat	**Date Tested**	02.11.2024	**Result (Pass/Fall/Not Exc...)**	Pass
S #	**Prerequisites:**		**S #**	**Test Data Requirement:**	
1	A web browser		#	No Data Requires	
Test Scenario:		The user opens browser and enter correct URL.			
Test Conditions					
Step #	**Step Details**	**Expected Results**	**Actual Results**		**Pass / Fail / Not Exc. / Susp**
1	The user opens the browser and enters the correct URL.	The login displays user to enter email and password.	The login displays user to enter email and password.		Pass

Test Case ID	LoginPage-2	**Test Case Description**	Ensures user accessibility to home page with authorized tokens.		
Created By	Cemal Bolat	**Date Tested**	02.11.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	A web browser		#	No Data Requires
2	Valid/Invalid tokens from prior login.			

Test Scenario:	The user previously logged in, and last login time is/is not within token validity.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The user opens browser and enters the correct URL.	The login page is ignored; user goes directly to the home.	The login page is ignored; user goes directly to the home.	Pass
2	Long after logging in, the user opens browser and enters the correct URL without the appropriate token.	The login page must not be ignored due to token validation.	The login page must not be ignored due to token validation.	Pass

Test Case ID	LoginPage-3	**Test Case Description**	Ensures the user to log in to the application.		
Created By	Cemal Bolat	**Date Tested**	02.11.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	A web browser		1	Email
			2	Password

Test Scenario:	User tries different login attempts, both correct and incorrect.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The user entered all data correctly.	Successful login: user directed to the home.	Successful login: user directed to the home.	Pass
2	The user entered incorrect e-mail	An appropriate error message is displayed.	An appropriate error message is displayed.	Pass
3	The user entered incorrect password	An appropriate error message is displayed.	An appropriate error message is displayed.	Pass

Test Case ID	Navigation-1	**Test Case Description**	Ensures correct redirection occurs when clicking the logo in the navbar.		
Created By	Cemal Bolat	**Date Tested**	02.11.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	Valid/Invalid tokens from prior login.		#	No Data Requires

Test Scenario:	The user clicked GTU’s logo in navbar.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The user clicked logo before logging process.	The login page is directed to user.	The login page is directed to user.	Pass
2	The user clicked logo after logging process.	The home page is directed to user.	The home page is directed to user.	Pass
3	Long after logging in, the user clicked on the logo without the appropriate token.	The login page is directed to user.	The login page is directed to user.	Pass

Test Case ID	Navigation-2	**Test Case Description**	Ensures correct redirection occurs login to forget password process with only UI.		
Created By	Cemal Bolat	**Date Tested**	02.11.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	URL to the forget my password page		#	No Data Requires

Test Scenario:	The user entered changed password URL.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The user clicked forget password URL.	The send code page is directed to user.	The send code page is directed to user.	Pass
2	The user clicked send code button with/without any input.	The verify code page is directed to user.	The verify code page is directed to user.	Pass
3	The user clicked verify code button with/without any input.	The enter new password page is directed to user.	The enter new password page is directed to user.	Pass
4	The user clicked reset password button with/without any input.	The login page is directed to user.	The login page is directed to user.	Pass

Test Case ID	Navigation-3	**Test Case Description**	Ensures correct redirection occurs when entering the super admin URL		
Created By	Cemal Bolat	**Date Tested**	02.11.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	URL to the super admin page		#	No Data Requires
2	Being Super Admin.			
3	Valid/Invalid tokens from prior login.			

Test Scenario:	The user wants to enter super admin's additional page.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The super admin has entered super admin URL with appropriate token.	The super admin page is directed to super admin.	The super admin page is directed to super admin.	Pass
2	The super admin has entered super admin URL without appropriate token.	The home page is directed to super admin.	The home page is directed to super admin.	Pass
3	Any user has entered super admin URL with/without appropriate token.	The home page is directed to user.	The home page is directed to user.	Pass

Test Case ID	Navigation-4	**Test Case Description**	Ensures correct redirection occurs when entering the department admin URL.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	URL to the department admin page		#	No Data Requires
2	Being Department Admin.			
3	Valid/Invalid tokens from prior login.			

Test Scenario:	The user wants to enter department admin's additional page.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The department admin has entered department admin URL with appropriate token.	The department admin page is directed to department admin.	The department admin page is directed to department admin.	Pass
2	The department admin has entered department admin URL without appropriate token.	The home page is directed to department admin.	The home page is directed to department admin.	Pass
3	Any user has entered department admin URL with/without appropriate token.	The home page is directed to user.	The home page is directed to user.	Pass

Test Case ID	Navigation-5	**Test Case Description**	Ensures correct home page occurs when entering the home page URL.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	URL to the home page		#	No Data Requires
2	Valid tokens from prior login.			

Test Scenario:	The user wants to enter home page.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The user logged in and directed to home page as super admin role.	User only sees super admin page button.	User only sees super admin page button.	Pass
2	The user logged in and directed to home page as department admin role.	User only sees department admin page button.	User only sees department admin page button.	Pass
3	The user logged in and directed to home page as normal user role.	User only sees no additional button for directing.	User only sees no additional button for directing.	Pass

Test Case ID	Navigation-6	**Test Case Description**	Ensures correct redirection occurs when entering the dashboard URL.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	URL to the dashboard page		#	No Data Requires
2	Valid/Invalid tokens from prior login.			

Test Scenario:	The user wants to enter dashboard page.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	Any user has entered dashboard URL with appropriate token.	The dashboard page is directed to user.	The dashboard page is directed to user.	Pass
2	Any user has entered dashboard URL without appropriate token.	The login page is directed to user.	The login page is directed to user.	Pass

Test Case ID	Super Admin-1	**Test Case Description**	Ensure Super Admin does his/her operations over departments.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc…)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	Super Admin role.		1	Department Name
2	Pre-Created Departments			
3	Pre-Created Users			

Test Scenario:	The user wants to operate super admin's operations over departments.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	Creating department with entering name.	The user creates a department and refreshes the list.	The user creates department and refresh the department lists.	Pass
2	Deleting department with clicking delete button on departments list.	The user deletes a department and its users, then refreshes both lists.	The user deletes a department and its users, then refreshes both lists.	Pass
3	Creating department with same name.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
4	Trying to delete a non-created department with name.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass

Test Case ID	Super Admin-2	**Test Case Description**	Ensure Super Admin does his/her operations over department admins.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fail...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	Super Admin role.		1	Department Name
2	Pre-Created Departments		2	Full Name
3	Pre-Created Users		3	Email
			4	Password

Test Scenario:	The user wants to operate operations over department admins.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	Creating department admin with correct data.	The user creates a department admin and refreshes the admin list.	The user creates a department admin and refreshes the admin list.	Pass
2	The user entered not appropriate name.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
3	The user entered not appropriate email.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
4	The user entered not appropriate department name.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
5	The user entered not appropriate password.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
6	Deleting department admin with clicking delete button on department admin list.	The user deletes department admins refreshes the department admin list.	The user deletes department admins refreshes the department admin list.	Pass

Test Case ID	Department Admin-1	**Test Case Description**	Ensure Department Admin does his/her operations over users.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	Department Admin role.		1	Full Name
2	Pre-Created Departments		2	Email
3	Pre-Created Users		3	Password

Test Scenario:	The user wants to operate operations over users.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	Creating with correct data.	The user creates user and refresh the user lists.	The user creates user and refresh the user lists.	Pass
2	The user entered not appropriate name.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
3	The user entered not appropriate email.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
4	The user entered not appropriate password.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
5	Deleting user with clicking delete button on user list.	The user deletes department admins refreshes the department admin list.	The user deletes department admins refreshes the department admin list.	Pass

Test Case ID	Change Password-1	**Test Case Description**	Ensures the right process for password change.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	URL to the forget my password page		1	Email
			2	New Password

Test Scenario:	The user wants to change password.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The user entered a valid email for taking code.	The code sent to given mail.	The code sent to given mail.	Pass
2	The user entered an invalid email for taking code.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
3	The user clicked verify code button with correct code.	The enter new password page is directed to user.	The enter new password page is directed to user.	Pass
4	The user clicked verify code button with incorrect code.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass
5	The user clicked reset password button with valid password and retype it.	Password successfully changed and the login page is directed to user	Password successfully changed and the login page is directed to user	Pass
6	The user clicked reset password button with invalid password or invalid retype it.	Gives appropriate error message to user.	Gives appropriate error message to user.	Pass

Test Case ID	Logout-1	**Test Case Description**	Ensures a clean user exit.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	Login application.		#	No Data Requires

Test Scenario:	The user wants to logout cleanly.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The user clicked clean logout button.	Tokens are blackmailed and the user is redirected to the login page.	Tokens are blackmailed and the user is redirected to the login page.	Pass
2	The user entered applications URL.	The user is directed to the login page. (no valid tokens)	The user is directed to the login page. (no valid tokens)	Pass

Test Case ID	Searching Panel-1	**Test Case Description**	Ensures a searching page for user.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Fail

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	Login application.		1	Internship period
			2	Student Name
2	Pre-Defined Students		3	Student Number

Test Scenario:	The user search/filter internships.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The user searches or filters nothing.	All internships are listed 10 by 10 to the user	All internships are listed 10 by 10 to the user	Pass
2	The user searches by name.	Searched internships are listed 10 by 10 to the user	Searched internships are listed 10 by 10 to the user	Pass
3	The user searches by student number.	Searched internships are listed 10 by 10 to the user	Searched internships are listed 10 by 10 to the user	Pass
4	The user filters by internship period.	Searched and Filtered students are listed 10 by 10 to the user	No internship shown	Fail
5	The user searches based on student's name and filters based on internship period.	Searched and Filtered students are listed 10 by 10 to the user	No internship shown	Fail
6	The user searches based on student's number and filters based on internship period.	Searched and Filtered students are listed 10 by 10 to the user	No internship shown	Fail

7	The user clicked searched or filtered student’s see detailed icon.	The user is redirected to the student's profile page or the student's page appears on the screen. (then it will be decided)	The user is redirected to the student's profile page or the student's page appears on the screen. (then it will be decided)	Pass

Test Case ID	Student Profile-1	**Test Case Description**	Ensures a student profile page for the user.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	Login application.		#	No Data Requires
2	Pre-Defined Student.			
3	Pre-Defined Internship Details.			

Test Scenario:	The user wants to see searched/filtered student’s profile.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The page is directed to user.	The user clearly sees the student information.	The user clearly sees the student information.	Pass
2	The page is directed to user.	The user clearly sees the internship information.	The user clearly sees the internship information.	Pass
3	The page is directed to user.	The user clearly sees the status of internship steps and its changed date.	The user clearly sees the status of internship steps and its changed date.	Pass
4	The page is directed to user.	The user clearly sees whether the SGK	The user clearly sees whether the	Pass

		document of the internship has been uploaded.	SGK document of the internship has been uploaded.	
5	The page is directed to user.	The user can change the status of SGK document.	The user can change the status of SGK document.	Pass
6	The page is directed to user.	The user clearly sees the status of internship.	The user clearly sees the status of internship.	Pass

Test Case ID	Dashboard-1	**Test Case Description**	Ensures dashboards and statistics tables.		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Pass

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	Login application.		1	Internship period
2	Pre-Defined Student.		2	Company Name
3	Pre-Defined Internships.			

Test Scenario:	The user wants to see dashboards and statistics about students.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The page is directed to user.	The user clearly sees the dashboard.	The user clearly sees the dashboard	Pass
2	The user filters dashboard by internship period.	The user clearly sees the new filtered graphs.	The user clearly sees the new filtered graphs	Pass
3	The user filters dashboard by company name.	The user clearly sees the new filtered graphs.	The user clearly sees the new filtered graphs.	Pass

4	The user filters dashboard by internship period company name at the same time.	The user clearly sees the new filtered graphs.	The user clearly sees the new filtered graphs.	Pass
5	The user filters dashboard by internship period.	The user clearly sees the new filtered graphs.	The user clearly sees the new filtered graphs.	Pass

Test Case ID	Export Report-1	**Test Case Description**	Ensures export report		
Created By	Cemal Bolat	**Date Tested**	17.12.2024	**Result (Pass/Fall/Not Exc...)**	Not Exc

S #	**Prerequisites:**		**S #**	**Test Data Requirement:**
1	Login application.		1	Internship term
2	Pre-Defined Student.		2	Meeting Date
3	Pre-Defined Internships.		3	Commission Chairman
			4	Commissioner

Test Scenario:	The user wants to export docx report of internships with proper inputs.

Test Conditions

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass / Fail / Not Exc. / Susp**
1	The page is directed to user.	The user clearly sees the form that has information about report building.	The user clearly sees the form that has information about report building.	Done
2	The user entered invalid date.	Gives appropriate error message to user.	-	Not Exc

3	The user missed selecting term.	Gives appropriate error message to user.	-	Not Exc
4	The user missed selecting commissioners.	Gives appropriate error message to user.	-	Not Exc
5	The user missed selecting commission chairman.	Gives appropriate error message to user.	-	Not Exc