ICES4HU USE CASE DEFINITIONS

1. Overview

1.1 Overview of the Actors

The website can be used by 4 different types of users:

- **Admin**: The admin controls the website and does the most basic tasks to be done before the survey period starts.

- **Student**: Students are the users who will fill out the surveys.

- **Instructo**r: Instructors prepare the survey and benefit from their results.

- **Department Manager**: The department manager manages instructors and the related courses.

1.2 Use Case Diagram
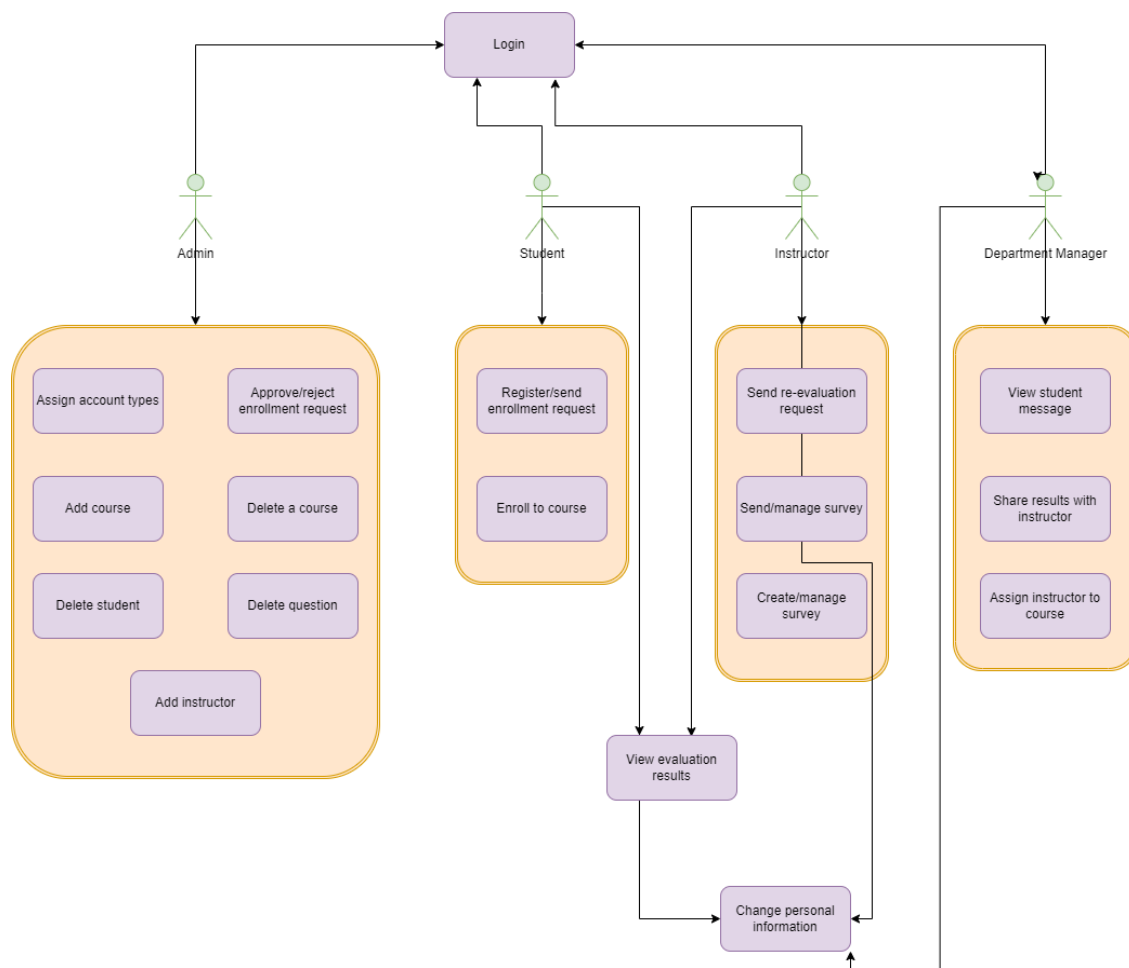
1.3 Context Diagram
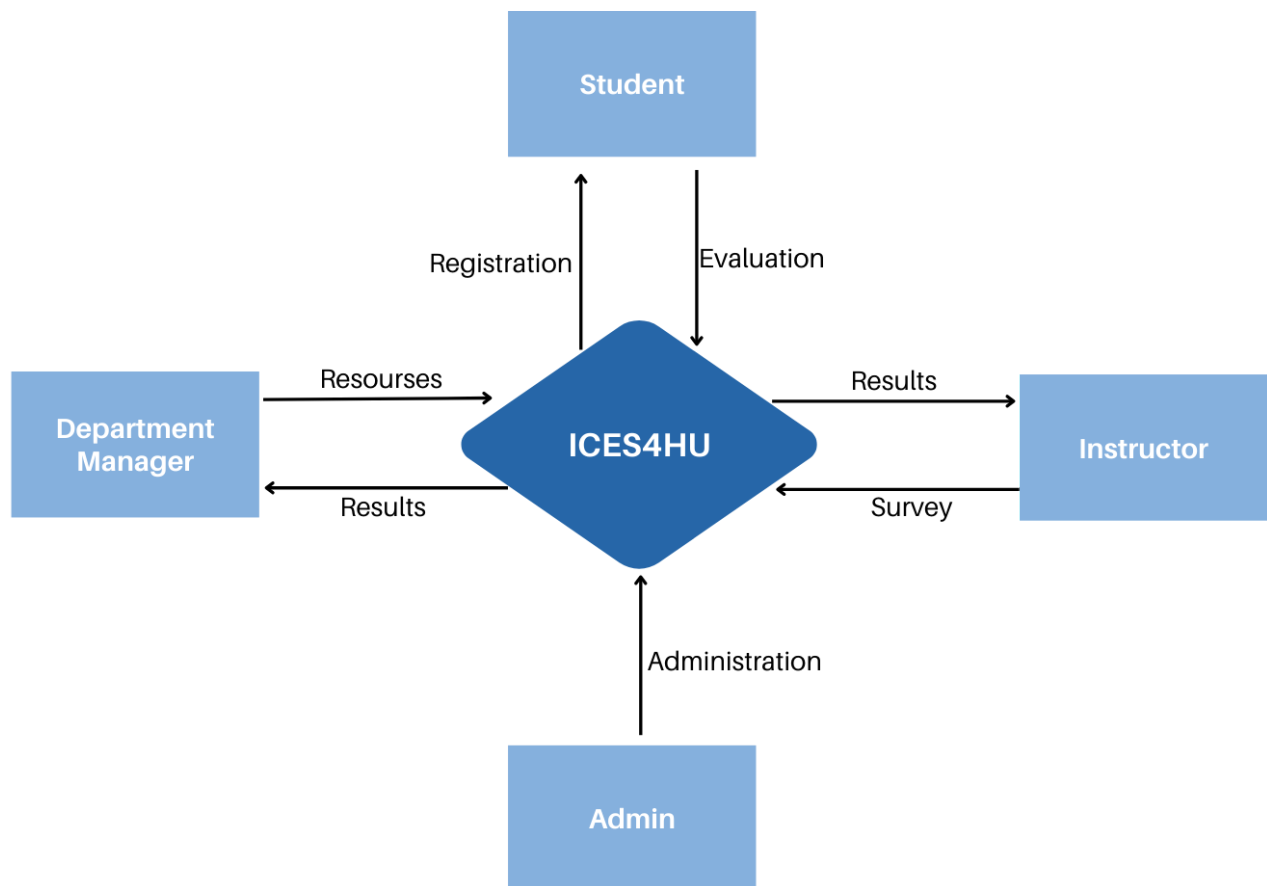
2. Tabular Descriptions

Use Case: Login

Use Case Number:	1		
Use Case Code:	UC-1		
Use Case Name:	Login		
Depicter:	Şura Nur Ertürkmen	Last Modificatory:	Ayça Akyol
Description Date:	02.04.2023	Last Modification Date:	08.04.2023

Actor(s):	Admin, Student, Instructor, Department Manager
Short Definition:	The actor enters the survey system for further functionality
Pre-condition:	Student and department manager enrollment requests need to be approved by the admin. The instructor needs to be added by the admin.
Post-condition:	The actors can do whatever they want, limited to their own privilege.
Priority:	Must have
Frequency of Occurrence:	Frequently
Main Path:	1. The system shall display a login screen 2. The actor shall type their email and password 3. The system shall authenticate the user
Alternative Path:	A.2.1 If the actors forget their password, they can click the forget password button and the admin sends an e-mail to their email address. A3.1 If the username and password don't match in the database, the system produces an error message.
Containing Use-Case(s)	
Special Requirements:	The system should check whether the user is registered in the database or not.
Assumptions:	
Note:	

Use Case: Assign Account Types

Use Case Number:	2		
Use Case Code:	UC-2		
Use Case Name:	Assign account types		
Depicter:	Ayça Akyol	Last Modificatory:	Ayça Akyol
Description Date:	30.03.2023	Last Modification Date:	05.04.2023

Actor(s):	Admin
Short Definition:	Admin assigns account types as student, instructor, and department head
Pre-condition:	Instructors must be added to the system, and students and department heads must enroll.
Post-condition:	Every type of user has a role.
Priority:	Must have
Frequency of Occurrence:	Only once for each user.
Main Path:	1. Admin chooses one of three options as user type
Alternative Path:	
Containing Use-Case(s)	
Special Requirements:	
Assumptions:	
Note:	

Use Case: Add Course

Use Case Number:	3		
Use Case Code:	UC-3		
Use Case Name:	Add a course		
Depicter:	Şura Nur Ertürkmen	Last Modificatory:	Şura Nur Ertürkmen
Description Date:	02.04.2023	Last Modification Date:	02.04.2023

Actor(s):	Admin
Short Definition:	The actor defines a course for the system.
Pre-condition:	The course to be opened must exist in the related department.
Post-condition:	The course added by the actor has been created in the system
Priority:	Must have
Frequency of Occurrence:	Rarely
Main Path:	1. The actor adds a course from the manage courses section. 2. The actor enters the information of the courses (course code, course name, credit, course type (mandatory or elective)) to be added by the actor. 3. The new course appears in the manage-courses section.
Alternative Path:	A.2.1 If the actor does not enter the information in their format, she/he will encounter an error message.
Containing Use-Case(s)	
Special Requirements:	The system should save it to the database after the course is added.
Assumptions:	
Note:	

Use Case: Delete Course

Use Case Number:	4		
Use Case Code:	UC-4		
Use Case Name:	Delete a course		
Depicter:	Şura Nur Ertürkmen	Last Modificatory:	Şura Nur Ertürkmen
Description Date:	02.04.2023	Last Modification Date:	02.04.2023

Actor(s):	Admin
Short Definition:	The actor deletes the defined course from the system
Pre-condition:	There must be a previously created course to be deleted from the system.
Post-condition:	The deleted course disappears from the system.
Priority:	Not important
Frequency of Occurrence:	Rarely
Main Path:	1. The actor will go to the manage courses section. 2. The actor will press the delete button next to an existing course. 3. The course is deleted from the system and the manage-courses section.
Alternative Path:	A.2.1 The actor, if an instructor has been assigned to the course, 'Are you sure about deleting the course?' encounters the question. A.2.2 If the actor approves this message, the course is deleted from the system.
Containing Use-Case(s)	include UC-3
Special Requirements:	The system should delete it from the database after the course is deleted.
Assumptions:	
Note:	

Use Case: Delete Question

Use Case Number:	5		
Use Case Code:	UC-5		
Use Case Name:	Delete a question		
Depicter:	Selahattin Can Ölçer	Last Modificatory:	Selahattin Can Ölçer
Description Date:	05.04.2023	Last Modification Date:	06.04.2023

Actor(s):	Admin
Short Definition:	Admin delete the question whose context is not appropriate.
Pre-condition:	There must be a previously created question to be deleted from the system.
Post-condition:	The evaluation form no longer contains the deleted question.
Priority:	Not important
Frequency of Occurrence:	Rarely
Main Path:	1. Admin selects the "Manage Evaluation Forms" option. 2. Admin selects the evaluation form. 3. Admin locates the question to be deleted. 4. Admin selects the "Delete" option for the question. 5. System deletes the question from the evaluation form.
Alternative Path:	A.4.1. System asks the question "Are you sure" A.4.2. Admin confirms the deletion. A.4.3. System deletes the question.
Containing Use-Case(s)	
Special Requirements:	
Assumptions:	
Note:	

Use Case: Approve/Reject Enrollment Request

Use Case Number:	6		
Use Case Code:	UC-6		
Use Case Name:	Approve/Reject enrollment request		
Depicter:	Şura Nur Ertürkmen	Last Modificatory:	Şura Nur Ertürkmen
Description Date:	02.04.2023	Last Modification Date:	02.04.2023

Actor(s):	Admin
Short Definition:	The actor accepts the request sent by the student and the department manager while enrolling in the system.
Pre-condition:	Students and department managers have to send enrollment requests.
Post-condition:	The student and department manager have a verified account in the system
Priority:	Must have
Frequency of Occurrence:	Occasionally
Main Path:	1. The actor goes to the enrollment requests page. 2. The enrollment requests appear as lists of user information and roles. 3. The actor responds to the enrollment request via the Approved and Rejected buttons.
Alternative Path:	
Containing Use-Case(s)	extends UC-9
Special Requirements:	After confirmation, users' records should appear in the system.
Assumptions:	
Note:	

Use Case: Delete Students/Academicians

Use Case Number:	7		
Use Case Code:	UC-7		
Use Case Name:	Delete students and academicians		
Depicter:	Selahattin Can Ölçer	Last Modificatory:	Selahattin Can Ölçer
Description Date:	06.04.2023	Last Modification Date:	06.04.2023

Actor(s):	Admin
Short Definition:	Delete the students dismissed from the university and academicians who resigned their department.
Pre-condition:	There are dismissed students and/or resigned academicians in the system.
Post-condition:	The dismissed student or resigned academician has been deleted from the system.
Priority:	Not important
Frequency of Occurrence:	Occasionally
Main Path:	1. Admin selects the "Manage Members" option. 2. Admin selects the "Dismissed Students" or "Resigned Academicians" option. 3. Admin locates the dismissed student or resigned academician to be deleted. 4. Admin selects the "Delete" option for the dismissed student or resigned academician. 5. System deletes the dismissed student or resigned academician from the system.
Alternative Path:	A.4.1. System asks the question "Are you sure" A.4.2 Admin confirms or cancels the option deletion.
Containing Use-Case(s)	
Special Requirements:	The system must have the ability to notify the dismissed student or resigned academician that they have been deleted from the system.
Assumptions:	
Note:	

Use Case: Add Instructors

Use Case Number:	8		
Use Case Code:	UC-8		
Use Case Name:	Add Instructors		
Depicter:	Şura Nur Ertürkmen	Last Modificatory:	Şura Nur Ertürkmen
Description Date:	02.04.2023	Last Modification Date:	02.04.2023

Actor(s):	Admin
Short Definition:	The actor manually registers the instructor to the system with the instructor information he/she has.
Pre-condition:	The actor must have instructor information.
Post-condition:	In the system, there is an instructor whose information is entered.
Priority:	Must have
Frequency of Occurrence:	Occasionally
Main Path:	1. The actor clicks the add button on the main page and then goes to add the instructor page. 2. The actor fills in the information of the instructor and sends them an email including their username and password.
Alternative Path:	
Containing Use-Case(s)	
Special Requirements:	The system should successfully save the instructors to the database
Assumptions:	
Note:	

Use Case: Register - Send Enrollment Request

Use Case Number:	9	
Use Case Code:	UC-9	
Use Case Name:	Register and send enrollment request	
Depicter:	Ayça Akyol	Last Modificatory:
Description Date:	30.03.2023	Last Modification Date:	05.04.2023

Actor(s):	Student, department manager
Short Definition:	Students and department managers have to send enrollment requests and admin approves
Pre-condition:	
Post-condition:	Enrolled users can view/edit their profiles.
Priority:	Must have
Frequency of Occurrence:	Occasionally
Main Path:	1. User fills the register page with necessary information. 2. User clicks the register button. 3. User sends the enrollment request. 4. Enrollment request is sent to the admin.
Alternative Path:	
Containing Use-Case(s)	*Include UC-1*
Special Requirements:	
Assumptions:	
Note:	

Use Case: Enroll to Courses

Use Case Number:	10		
Use Case Code:	UC-10		
Use Case Name:	Enroll to courses		
Depicter:	Ayşe İrem Yalçın	Last Modificatory:	Ayşe İrem Yalçın
Description Date:	02.04.2023	Last Modification Date:	02.04.2023

Actor(s):	Student
Short Definition:	Students can enroll in Courses.
Pre-condition:	Before the student enrolls in the course, the admin must allow the student to register in the system.
Post-condition:	Students can fill out the course's survey.
Priority:	Must have
Frequency of Occurrence:	Frequently
Main Path:	1. The system contains a list of courses 2. The student will search for the course using the course code in list 3. If it is on the list, it will enroll in the course.
Alternative Path:	A.2.1 If the course is not in the list, a request is sent to the department management to add a course.
Containing Use-Case(s)	UC-3
Special Requirements:	Enroll the courses once both the semester starts and the department manager assigns an instructor to the course.
Assumptions:	
Note:	

Use Case: Change Personal Information

Use Case Number:	11	
Use Case Code:	UC-11	
Use Case Name:	Change Personal Information	
Depicter:	Zübeyde Civelek	Last Modificatory:
Description Date:	06.04.2023	Last Modification Date:

Actor(s):	Student, Instructor, Department Head
Short Definition:	This use case allows actors to change their personal information such as name, password, picture.
Pre-condition:	Actors must be logged into their accounts.
Post-condition:	The personal information of the actor is updated in the system.
Priority:	Should have
Frequency of Occurrence:	Rarely
Main Path:	1. Actor navigates to the "Personal Information" section of their profile. 2. Actor selects the information they want to update. 3. Actor updates the information. 4. Actor saves the changes. 5. System confirms the changes have been saved.
Alternative Path:	
Containing Use-Case(s)	UC-1
Special Requirements:	System should validate the format of the updated information.
Assumptions:	Actors have the necessary information to update their personal information.
Note:	

Use Case: Manage and Send Survey

Use Case Number:	12		
Use Case Code:	UC-12		
Use Case Name:	Manage and Send Survey		
Depicter:	Zübeyde Civelek	Last Modificatory:	Ayça Akyol
Description Date:	06.04.2023	Last Modification Date:	08.04.2023

Actor(s):	Student
Short Definition:	This use case describes the process for managing and sending surveys to students. The surveys can be filled out, changed, and sent by students.
Pre-condition:	The student is logged into their account and the student has access to the survey feature.
Post-condition:	The survey responses are saved and submitted.
Priority:	Should have
Frequency of Occurrence:	Occasionally
Main Path:	1. Student logs in to the system. 2. Student sees a reminder to complete the course evaluation. 3. Student clicks "Go to Evaluation" or "Do it Later." 4. Student completes the evaluation. 5. Student clicks "Save All and Submit." 6. Student receives a confirmation message and a certificate of completion.
Alternative Path:	A.2. If the student clicks saves the survey twice and the survey has not been completed, the system will display a message indicating that the survey must be completed next time.
Containing Use-Case(s)	UC-1
Special Requirements:	The system must remind the student to complete the survey every time they log in until the survey is completed.
Assumptions:	The student has access to a computer or device with internet connectivity.
Note:	

Use Case: View Evaluation Results

Use Case Number:	13		
Use Case Code:	UC-13		
Use Case Name:	View evaluation results		
Depicter:	Ayça Akyol	Last Modificatory:	Ayşe İrem Yalçın
Description Date:	30.03.2023	Last Modification Date:	05.04.2023

Actor(s):	Student, instructor
Short Definition:	After the term is finalized instructors and students will see the results.
Pre-condition:	1. Grades must be announced and the term must end. 2. Students must fill the surveys.
Post-condition:	1. Every user will be able to see the results. 2. Instructors will be able to make adjustments for the course.
Priority:	Must have
Frequency of Occurrence:	Once in a while
Main Path:	1. Survey filling period ends. 2. All the answers from the students are calculated. 3. Answers are shown statistically.
Alternative Path:	A2.1. Students can also answer individually, these are shown separately.
Containing Use-Case(s)	Include UC-12
Special Requirements:	Students' names are hidden.
Assumptions:	
Note:	

Use Case: Create/Manage Survey

Use Case Number:	14		
Use Case Code:	UC-14		
Use Case Name:	Create and Manage Survey		
Depicter:	Zübeyde Civelek	Last Modificatory:	Ayça Akyol
Description Date:	06.04.2023	Last Modification Date:	08.04.2023

Actor(s):	Instructor
Short Definition:	This use case involves the instructor's ability to create, update, save, and view surveys for their course.
Pre-condition:	The instructor is logged into the system and has a course.
Post-condition:	Survey is created, updated, saved, or viewed.
Priority:	Must Have
Frequency of Occurrence:	Occasionally
Main Path:	1. Instructor selects the option to create a new survey. 2. Instructor enters the survey details, including the description, and questions. 3. Instructor saves the survey or submits it for review. 4. If the survey is saved, the instructor can come back and edit it later. 5. If the survey is submitted for review, it will be sent to the department head for approval. 6. If the survey is published and available for students to take.
Alternative Path:	A.1 If the instructor selects the "Delete Survey" option, the system presents a confirmation dialog box. A.2 Instructor confirms the deletion. A.3 System removes the survey from the list of existing surveys for the course.
Containing Use-Case(s)	UC-1
Special Requirements:	The survey system should be user-friendly and allow for easy creation and editing of surveys.
Assumptions:	The instructor is familiar with the survey creation process and has access to the necessary survey tools.
Note:	

Use Case: Send Re-evaluation Request

Use Case Number:	15
Use Case Code:	UC-15
Use Case Name:	Send Requests for Re-evaluation
Depicter:	Zübeyde Civelek
Description Date:	06.04.2023

Depicter:	Zübeyde Civelek	Last Modificatory:	Ayşe İrem Yalçın
Description Date:	06.04.2023	Last Modification Date:	08.04.2023

Actor(s):	Instructor, Department Manager
Short Definition:	Instructor sends a request to the department head for re-evaluation of a student's performance in a course.
Pre-condition:	Instructor is logged into the system and the instructor has access to the course evaluation results.
Post-condition:	The request for re-evaluation is sent to the Department Head.
Priority:	Should Have
Frequency of Occurrence:	Rarely
Main Path:	1. Instructor navigates to the course evaluation results 2. Instructor thinks there is inconsistency and unfairness in the survey results. 3. Instructor submits the request. 4. System sends the request to the Department Head for approval. 5. Department Manager reviews the request. 6. Department Manager approves the request and re-sent the survey for re-evaluation.
Alternative Path:	A.1. Instructor submits the request. A.2. System sends the request to the Department Manager for approval. A.3. Department Manager reviews the request. A.4. Department Manager denies the request.
Containing Use-Case(s)	UC-1 UC-13 UC-17
Special Requirements:	The system should notify the Instructor and the Department Head of any updates to the status of the request.
Assumptions:	The Instructor and the Department Head are authorized to access the course evaluation results.
Note:	

Use Case: Assign Instructors to Courses

Use Case Number:	16		
Use Case Code:	UC-16		
Use Case Name:	Assign Instructors to Courses		
Depicter:	Ayşe İrem Yalçın	Last Modificatory:	Ayşe İrem Yalçın
Description Date:	02.04.2023	Last Modification Date:	02.04.2023

Actor(s):	Department Manager
Short Definition:	Department Manager can assign instructors to specific courses.
Pre-condition:	User must be enrolled in the system and log in to the system by entering his/her login id and password.
Post-condition:	User can evaluate and share survey results
Priority:	Must have
Frequency of Occurrence:	Frequently
Main Path:	1. There is a list of courses belonging to the Department that the Manager can manage. 2. The user finds the course they want to add an instructor from the list with the course code. 3. The user selects one of the instructors registered in the database by using the add instructor button.
Alternative Path:	
Containing Use-Case(s)	UC-8
Special Requirements:	After the administrator has defined course information and started the semester, s/he can assign instructors to a specific course(s).
Assumptions:	We assume that the course and the instructor exist in the database
Note:	

Use Case: View responses/ re-evaluation requests

Use Case Number:	17		
Use Case Code:	UC-17		
Use Case Name:	View responses and re-evaluation		
Depicter:	Ayça Akyol	Last Modificatory:	Şura Nur Ertürkmen
Description Date:	30.03.2023	Last Modification Date:	05.04.2023

| Actor(s):	Department manager
Short Definition:	All responses can be viewed and the department manager can decide if there's a need for re-evaluation.
Pre-condition:	1. Grades must be announced and terms must end.
Post-condition:	1. Department manager can observe the course's situation. 2. If the department manager decides the survey must be re-evaluated, the survey is re-sent to the students.
Priority:	Should have
Frequency of Occurrence:	Once in a while
Main Path:	1. Survey filling period ends. 2. All the answers are calculated. 3. Results are shown statistically.
Alternative Path:	A2.1 Students can also answer individually, these are shown separately.
Containing Use-Case(s)	
Special Requirements:	Student names are **not** hidden.
Assumptions:	
Note:	

Use Case: Share Survey Results with Instructors

Use Case Number:	18
Use Case Code:	UC-18
Use Case Name:	Share surveys results with instructors
Depicter:	Ayşe İrem Yalçın
Last Modificatory:	Ayşe İrem Yalçın
Description Date:	02.04.2023
Last Modification Date:	02.04.2023

Actor(s):	Department Manager
Short Definition:	The Department Manager can share assessment-related results with all instructors.
Pre-condition:	In order for the surveys to be shared, the survey filling deadline must come.
Post-condition:	If there is a request for re-evaluation from the instructors, the surveys are re-evaluated.
Priority:	Must have
Frequency of Occurrence:	After the surveys
Main Path:	1. The department manager reviews the surveys on the survey results page. 2. Clicking on the "Share Results All" button sends the survey results to all instructors via email.
Alternative Path:	
Containing Use-Case(s)	UC-13 UC-14
Special Requirements:	Share assessment-related results with all instructors by sending e-mail by clicking only one "Share Results All" button.
Assumptions:	We assume that the e-mails of the instructors are registered and accessible in the system.
Note:	

3. Activity Diagrams

Activity Diagram: Change Personal Information UC-11
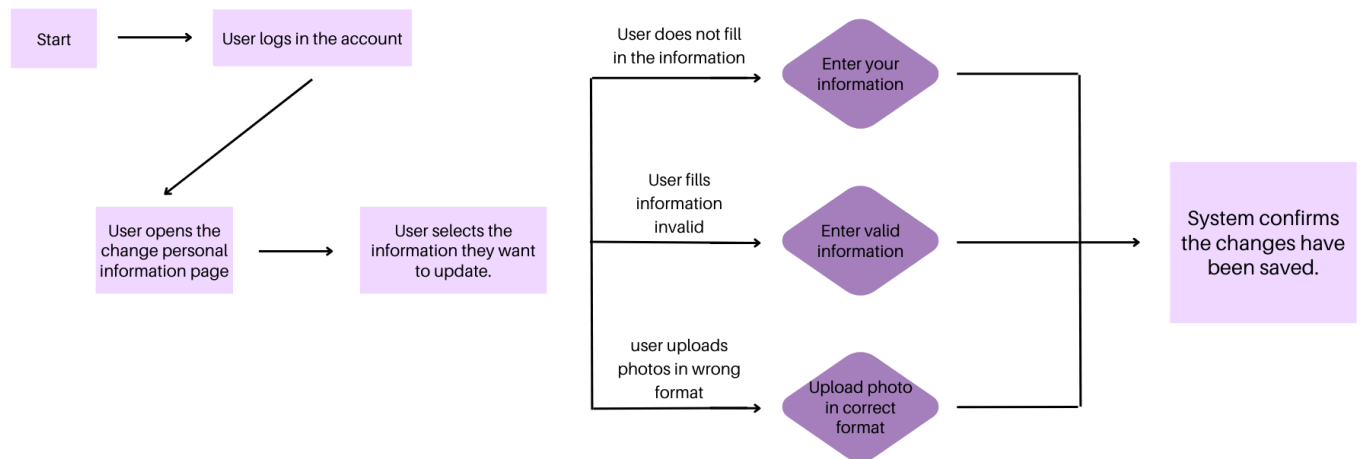
Activity Diagram: Register / Send Enrollment Request UC-9
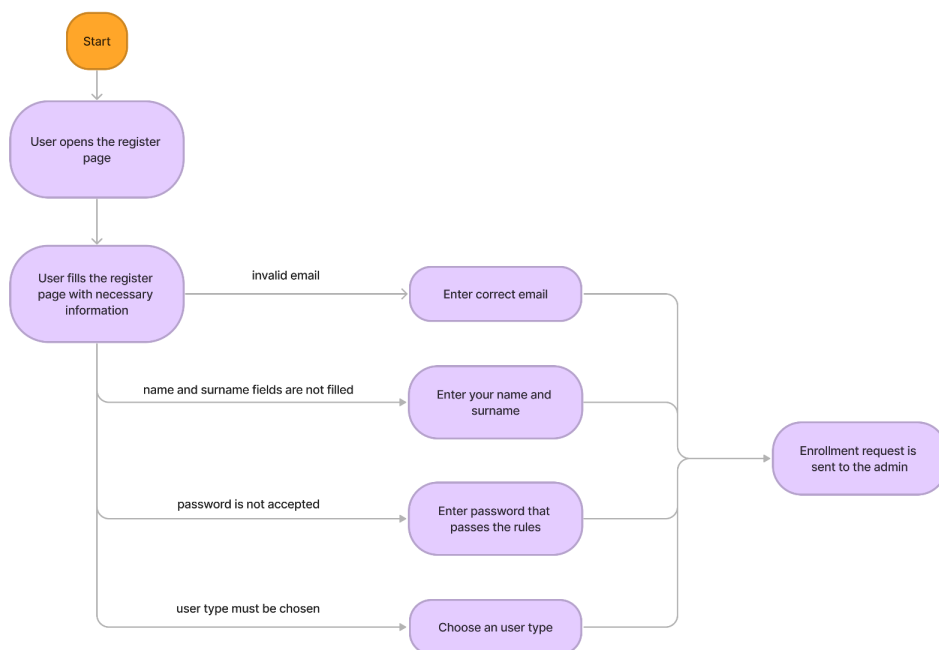
Activity Diagram: Login UC-1

Activity Diagram: Delete Question UC-5

```
[Start] ----> [Admin open login page]
                      |
                      v
[Admin types         [Admin selects      Admin doesn't type
 necessary     --->   question will       the reason      ----> (Type the reason)
 informations]        be deleted]    --->                                          [Question is
                                          Admin doesn't                             delete from
                                          confirm message  ----> (Option cancelled)  system and
                                                                                     prints a
                                          Admin doesn't have                         message with
                                          authority        ----> (Deletion cancelled) reason]
```
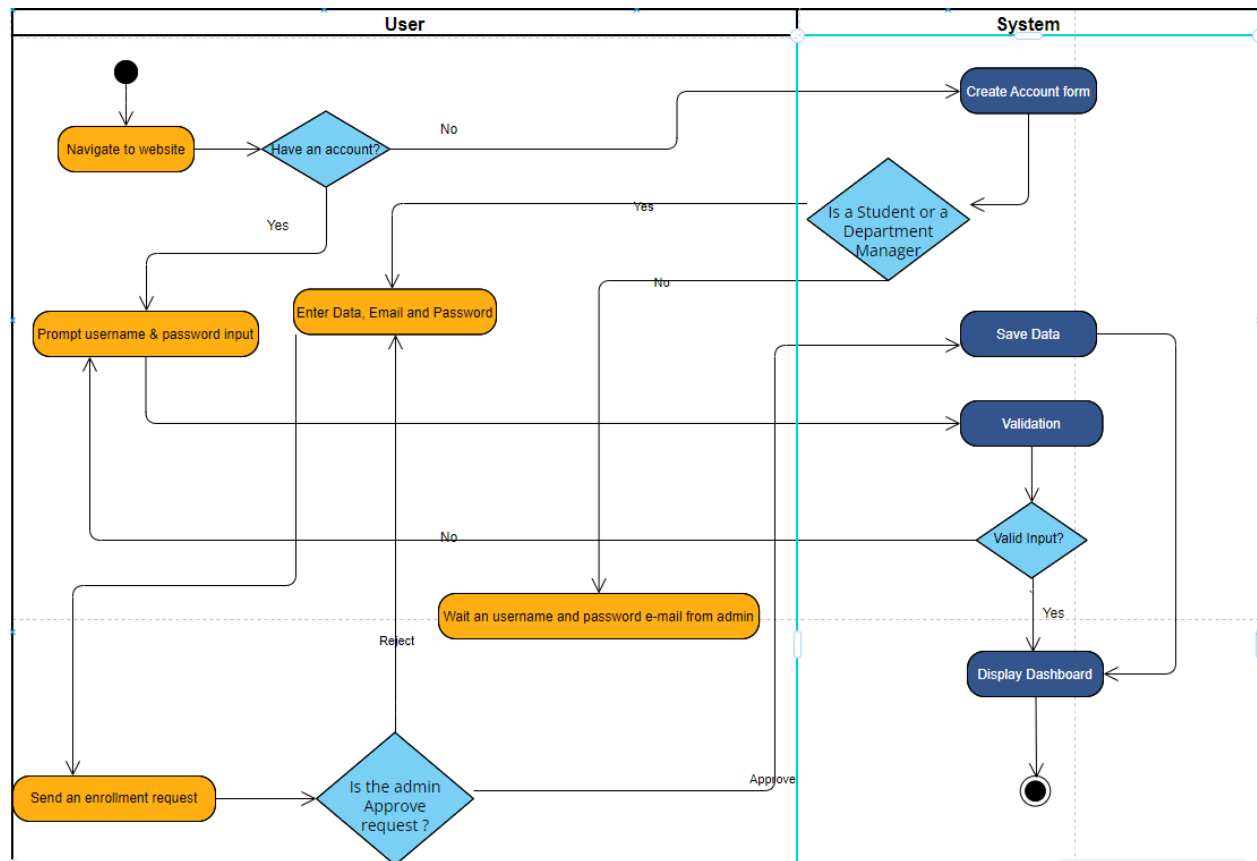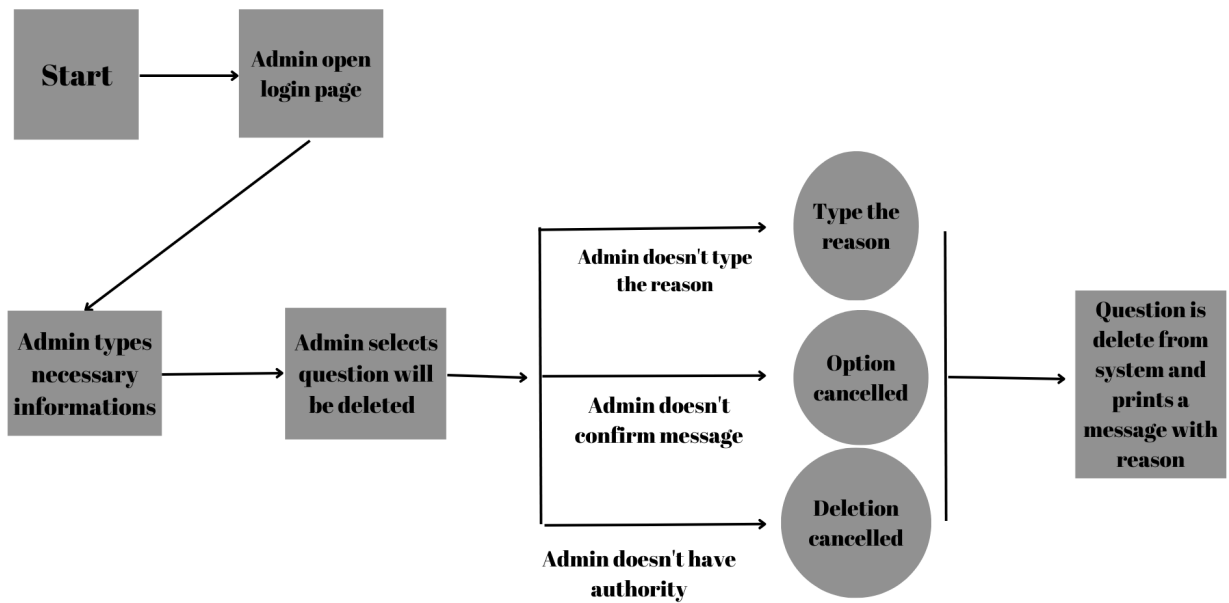
Activity Diagram: Enroll to Courses UC-10

```
[Start] ----> [User logs in the account]
                         |
                         v
[User opens the    [User will search for the    [User will enroll in the
 list of courses] -> course using the course  ->  course.]
                     code in list]

                                     User does not serch
                                     with the course code
                                                            <Enter the course code>

                                     User search code
                                     for non-existing
                                     course                 <There is no such course>   [System confirms
                                                                                          enrollment request
                                     User search code                                     has been sent.]
                                     for existing course    <User can enroll in the course>
```
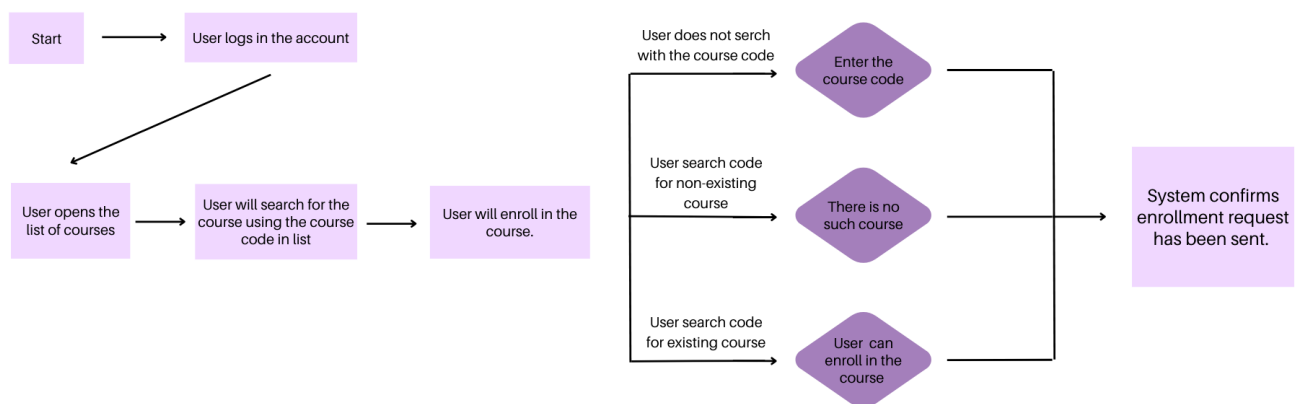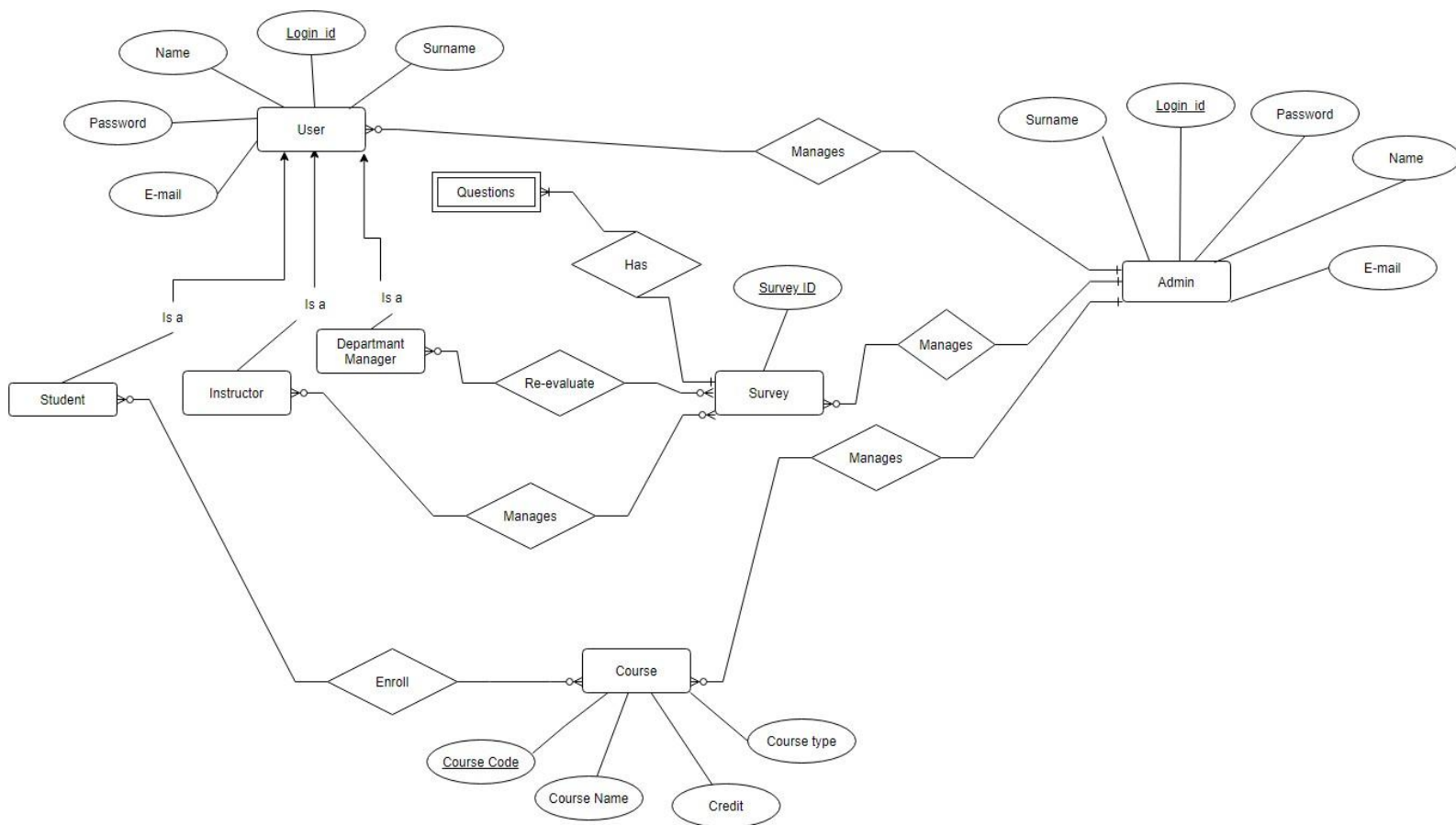
4. Conceptual Entity Relationship Diagram

5. Traceability Table

Test Case ID	TC-1	TC-2	TC-3	TC-4	TC-5	TC-6	TC-7	TC-8	TC-9	TC-10	TC-11	TC-12	TC-13	TC-14	TC-15	TC-16	TC-17	TC-18
Use Case ID																		
UC-1	✓					✓					✓			✓	✓		✓	✓
UC-2		✓										✓						
UC-3		✓	✓	✓												✓		
UC-4				✓														
UC-5					✓													
UC-6		✓				✓	✓			✓								
UC-7							✓											
UC-8								✓						✓		✓		
UC-9							✓		✓	✓								
UC-10						✓												
UC-11																		
UC-12													✓		✓	✓		✓
UC-13													✓		✓	✓	✓	
UC-14					✓							✓	✓		✓	✓		
UC-15														✓				
UC-16																		
UC-17													✓				✓	✓
UC-18																		

6. Distributions of tasks

Use Case Diagram: Use case diagram made by team member Zübeyde Civelek.

Context Diagram: Context diagram made by team member Zübeyde Civelek

Use Cases: Use cases were determined as common. It was divided among the whole team to make their tabular definitions. Lastly, use case definitions were checked by the whole team.

Activity Diagrams: Each team member drew the activity diagram of any use case they wrote.

Change Personal Information UC-11	-> Zübeyde Civelek
Register / Send Enrollment Request UC-9	-> Ayça Akyol
Login UC-1	-> Şura Nur Ertürkmen
Delete Question UC-5	-> Selahattin Can Ölçer
Enroll Courses UC-10	-> Ayşe İrem Yalçın

Traceability Table: Traceability Table made by team members Ayça Akyol and Şura Nur Ertürkmen.