Traineeship Application

Sprint Report

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VERSIONS HISTORY

Date	Version	Description	Author
20/5/2025	1.0	Final Version	Development Team

1 Introduction

1.1 Purpose

This Sprint Report documents the development of the Traineeship Web Application. Within this document you will find a detailed report of the process the development team followed to achieve the final result. This report is not a walkthrough of the solution, but rather a summation of its components, its features, its boundaries, and how they all tie together to complete the final product.

1.2 Document Structure

The rest of this document is structured as follows. Section 2 describes out Scrum team and specifies the Sprint's backlog. Section 3 specifies the main design concepts for the release of this project. It provides a detailed description of the Use Cases implemented, along with a Use Case Diagram. Section 4 lays out a detailed design of the project's architecture.

2 Scrum team and Sprint Backlog

2.1 Scrum team

Development Team	Κεφάλας Γιώργος 5252 Μπατζιάκας Φίλιππος 5297 Παπαδόπουλος Δημήτρης 5321

2.2 Sprints

Sprint No	Begin Date	End Date	Number of weeks	Use Cases
1	**16/3**	**31/3**	**2**	**UC1, UC2, UC3, UC4, UC8, UC15, UC19**
2	**1/4**	**7/4**	**1**	**UC5, UC9, UC16, UC20**
3	**8/4**	**14/4**	**1**	**UC6, UC7, UC10, UC11, UC12, UC13, UC17**
4	**21/4**	**28/4**	**1**	**UC21, UC22, UC23, UC24, UC25, UC26**
5	**1/5**	**7/5**	**1**	**UC14, UC18, UC27, UC28**

3 Use Cases

This section specifies the exact Use Cases implemented by the development team. Each Use Case represents a feature that the app provides. Some User Stories had to be broken down into multiple Use Cases, while others were completed in one Use Case. It all depends on their complexity.

2.3 User Use Cases

Use case ID	UC1 - createAccount
Actors	User
Pre conditions	The user is at the app's homepage
Main flow of events	1. User selects "Create Account" 2. System displays new account form 3. User fills out form
Alternative flow 1	1. User selects "Submit" 2. System saves User 3. System redirects User to login page
Alternative flow 2	1. User selects "Back To Homepage" 2. System redirects User back to homepage

Use case ID	UC2 - logIn
Actors	User
Pre conditions	User must have an existing account
Main flow of events	1. User selects "Login"

	2. System displays login form 3. User fills out form
Alternative flow 1	1. Login credentials are correct 2. System redirects User to dashboard
Alternative flow 2	1. Login credentials are incorrect 2. System displays error message 3. System redirects User to login page

Use case ID	UC3 - logOut
Actors	User
Pre conditions	User must be logged in
Main flow of events	1. User selects "Logout" 2. System logs User out 3. System redirects User to the homepage

2.4 Student Use Cases

Use case ID	UC4 - createStudentProfile
Actors	Student
Pre conditions	Student logs in for the first time
Main flow of events	1. System displays Student new student account form 2. Student fills out form
Alternative flow 1	1. Student selects “Submit”

	2. System saves Student 3. System redirects Student to dashboard
Alternative flow 2	1. Student selects “Back To Homepage” 2. System redirects Student to homepage

Use case ID	UC5 - viewStudentProfile
Actors	Student
Pre conditions	Student is at dashboard
Main flow of events	1. Student selects “View Profile” 2. System recovers the Student’s profile info 3. System redirects Student to profile page
Alternative flow 1	1. Student selects “Back To Dashboard” 2. System redirects Student to dashboard

Use case ID	UC6 - applyForTraineeship
Actors	Student
Pre conditions	Student is at dashboard
Main flow of events	1. Student selects “Apply For Traineeship” 2. System marks the Student as applicant 3. System displays confirmation 4. System redirects Student to dashboard

Use case ID	UC7 - fillLogbook
Actors	Student
Pre conditions	Student is at dashboard
Main flow of events	1. Student selects “Fill Logbook” 2. System shows logbook form 3. Student fills out logbook form
Alternative flow 1	1. Student selects “Submit” 2. System saves logbook 3. System redirects Student to dashboard
Alternative flow 2	1. Student selects “Back to Dashboard” 2. System redirects Student to dashboard

2.5 Company Use Cases

Use case ID	UC8 - createCompanyProfile
Actors	Company
Pre conditions	Company logs in for the first time
Main flow of events	1. System displays new company account form 2. Company fills out form
Alternative flow 1	1. Company selects “Submit” 2. System saves Company 3. System redirects Company to dashboard

Alternative flow 2	1. Company selects “Back To Homepage” 2. System redirects Company to homepage

Use case ID	UC9 - viewCompanyProfile
Actors	Company
Pre conditions	Company is at dashboard
Main flow of events	1. Company selects “View Profile” 2. System recovers the Company’s profile 3. System redirects Company to profile page
Alternative flow 1	1. Company selects “Back To Dashboard” 2. System redirects Company to dashboard

Use case ID	UC10 - showAvailablePositions
Actors	Company
Pre conditions	Company is at dashboard
Main flow of events	1. Company selects “View Available Positions” 2. System recovers all positions available for assignment 3. System redirects Company to available positions page
Alternative flow 1	1. Company selects “View Details” of a position 2. System recovers the details of the position 3. System redirects Company to details page
Alternative flow 2	1. Company selects “Delete” a position 2. UC13 starts

Alternative flow 3	3. Company selects “Back to Dashboard” 4. System redirects Company to dashboard

Use case ID	UC11 - showAssignedPositions
Actors	Company
Pre conditions	Company is at dashboard
Main flow of events	1. Company selects “View Assigned Positions” 2. System recovers all positions that have been assigned to Students 3. System redirects Company to assigned positions page
Alternative flow 1	1. Company selects “Evaluate” a position 2. UC14 starts
Alternative flow 2	1. Company selects “Back To Dashboard” 2. System redirects Company to dashboard

Use case ID	UC12 - addPosition
Actors	Company
Pre conditions	Company is at dashboard
Main flow of events	1. Company selects “Add a Position” 2. System displays new position form 3. Company fills out form
Alternative flow 1	1. Company selects “Submit” 2. System saves new position 3. System redirects Company to dashboard
Alternative flow 2	1. Company selects “Back to Dashboard” 2. System redirects Company to dashboard

Use case ID	UC13 - deletePosition
Actors	Company
Pre conditions	Company is at the available positions page
Main flow of events	1. Company selects “Delete” a positon 2. System deletes the position 3. System redirects Company to dashboard

Use case ID	UC14 – evaluateTrainee
Actors	Company
Pre conditions	Company is at the assigned positions page
Main flow of events	1. Company selects “Evaluate” on a position 2. System displays the student evaluation form 3. Company fills out form
Alternative flow 1	1. Company selects “Submit” 2. System saves the evaluation 3. System redirects Company to assigned positions page
Alternative flow 2	1. Company selects “Cancel” 2. System redirects Company to assigned positions page

2.6 Professor Use Cases

Use case ID	UC15 - createProfessorProfile
Actors	Professor
Pre conditions	Professor logs in for the first time
Main flow of	1. System displays new professor account form

events	2. Professor fills out form
Alternative flow 1	1. Professor selects “Submit” 2. System saves Professor 3. System redirects Professor to dashboard
Alternative flow 2	1. Professor selects “Back To Homepage” 2. System redirects Professor to homepage

Use case ID	UC16 - viewProfessorProfile
Actors	Professor
Pre conditions	Professor is at dashboard
Main flow of events	1. Professor selects “View Profile” 2. System recovers the Professor’s profile 3. System redirects Professor to profile page
Alternative flow 1	1. Professor selects “Back To Dashboard” 2. System redirects Professor to dashboard

Use case ID	UC17 - showSupervisingPositions
Actors	Professor
Pre conditions	Professor is at dashboard
Main flow of events	1. Professor selects “View Supervising Positions” 2. System recovers all positions that the Professor supervises 3. System redirects Professor to supervised positions page
Alternative flow 1	1. Professor selects “Evaluate” on a position 2. UC17 starts
Alternative	1. Professor selects “Back to Dashboard”

flow 2	2. System redirects Professor to dashboard

Use case ID	UC18 - evaluateTrainee
Actors	Professor
Pre conditions	Professor is at supervised positions page
Main flow of events	1. Professor selects “Evaluate” on a position 2. System displays the student evaluation form 3. Professor fills out form
Alternative flow 1	1. Professor selects “Submit” 2. System saves the evaluation 3. System redirects Professor to supervised positions page
Alternative flow 2	1. Professor selects “Cancel” 2. System redirects Professor to supervised positions page

2.7 Committee Member Use Cases

Use case ID	UC19 - createCommiteeProfile
Actors	Member
Pre conditions	Member logs in for the first time
Main flow of events	1. System displays new member account form 2. Member fills out form

Alternative flow 1	1. Member selects “Submit” 2. System saves Member 3. System redirects Member to dashboard
Alternative flow 2	1. Member selects “Back To Homepage” 2. System redirects Member to homepage

Use case ID	UC20 - viewMemberProfile
Actors	Member
Pre conditions	Member is at dashboard
Main flow of events	1. Member selects “View Profile” 2. System recovers the Member’s profile 3. System redirects Member to profile page
Alternative flow 1	1. Member selects “Back To Dashboard” 2. System redirects Member to dashboard

Use case ID	UC21 - showApplicants
Actors	Member
Pre conditions	Member is at dashboard
Main flow of events	1. Member selects ”View Applicants” 2. System recovers all students that have applied for a traineeship 3. System redirects Member to applicants page
Alternative flow 1	1. Member selects “Show Matching Positions” of an applicant 2. UC22 starts

Alternative flow 2	1. Member selects “Back to Dashboard” 2. System redirects Member to dashboard

Use case ID	UC22 – showMatchingPositions
Actors	Member
Pre conditions	Member is at applicants page
Main flow of events	1. Member selects “Show Matching Traineeships” of an applicant 2. System recovers all positions that match that applicant 3. System redirects Member to matching positions page
Alternative flow 1	1. Member selects “Filter By” to choose a matching strategy 2. System sorts the matching positions based on that strategy 3. System redirects Member to matching positions page
Alternative flow 2	1. Member selects “Assign” a position to a student 2. UC23 starts
Alternative flow 3	1. Member selects “Back To Dashboard” 2. System redirects Member to dashboard

Use case ID	UC23 - assignPosition
Actors	Member
Pre conditions	Member is at matching positions page
Main flow of events	1. Member selects “Assign” a position to an applicant 2. System assigns that position to the applicant 3. System redirects Member to applicants page

Use case ID	UC24 - showTraineeshipsInProgress
Actors	Member
Pre conditions	Member is at dashboard
Main flow of events	1. Member selects “View Traineeships In Progress” 2. System recovers all positions that have been assigned to students 3. System redirects Member to positions in progress page
Alternative flow 1	1. Member selects “Show Available Professors” for a position 2. UC25 starts
Alternative flow 2	1. Member selects “Monitor” a position 2. UC27 starts
Post conditions	1. Member selects “Back To Dashboard” 2. System redirects Member to dashboard

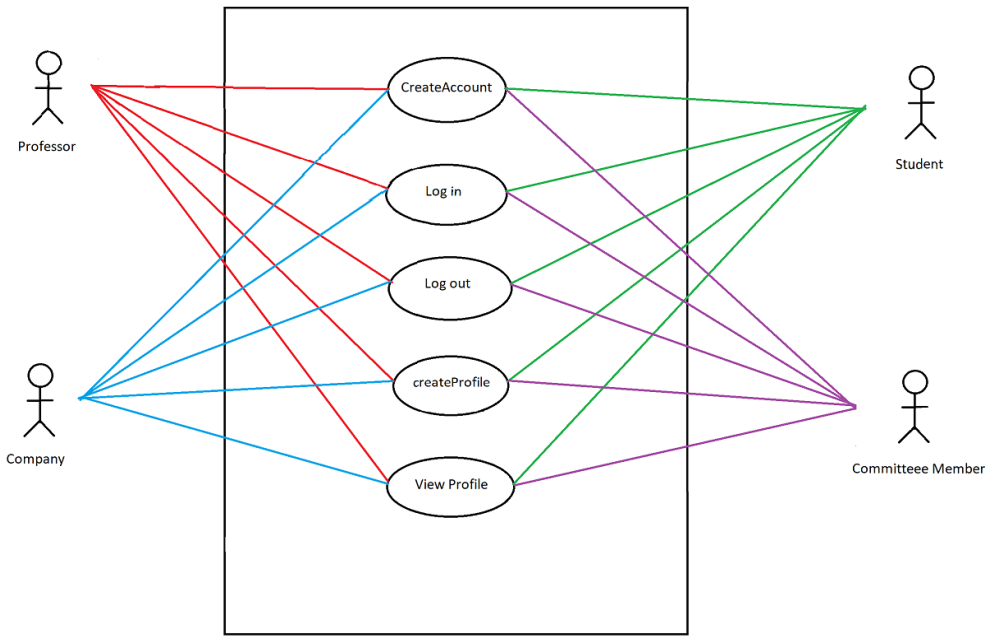
Use case ID	UC25- showAvailableProfessors
Actors	Member
Pre conditions	Member is at positions in progress page
Main flow of events	1. Member selects “View Available Professors” for a position 2. System recovers all professors available to supervise that position 3. System redirects Member to available professors page
Alternative flow 1	1. Member selects “Filter By” to choose an availability strategy 2. System sorts the available professors based on that strategy 3. System redirects Member to available professors page
Alternative flow 2	1. Member selects “Assign” a professor to a position 2. UC26 starts
Alternative flow 3	1. Member selects “Back To Dashboard” 2. System redirects Member to dashboard

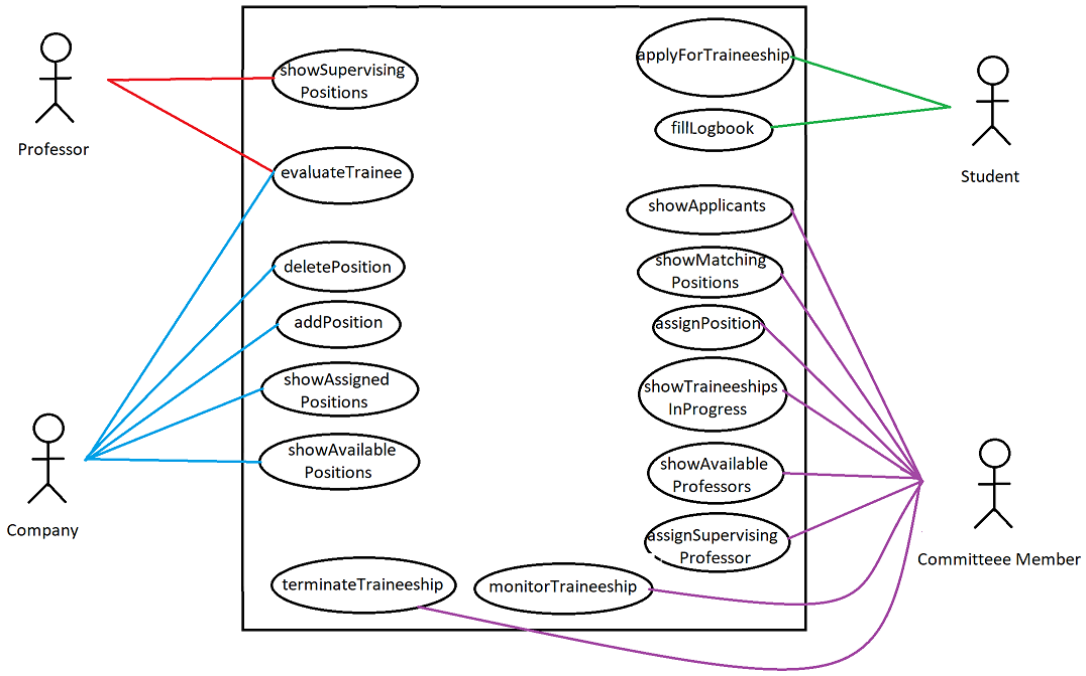
Use case ID	UC26 - assignSupervisingProfessor
Actors	Member
Pre conditions	Member is at available professors page
Main flow of events	1. Member selects “Assign” a professor to a position 2. System assigns the professor to the position 3. System redirects Member positions in progress page

Use case ID	UC27 - monitorTraineeship
Actors	Member
Pre conditions	Member is at positions in progress page
Main flow of events	1. Member selects “Monitor” a position 2. System recovers the evaluations of the position 3. System redirects Member to monitor page
Alternative flow 1	1. Member selects “Terminate” a traineeship 2. UC28 starts
Alternative flow 2	1. Member selects “Back To Dashboard” 2. System redirects Member to dashboard

Use case ID	UC28 – terminateTraineeship
Actors	Member
Pre conditions	Member is at monitor page
Main flow of events	1. Member selects “Terminate” a position 2. Member grades the positions with a Pass/Fail mark 3. System terminates the position

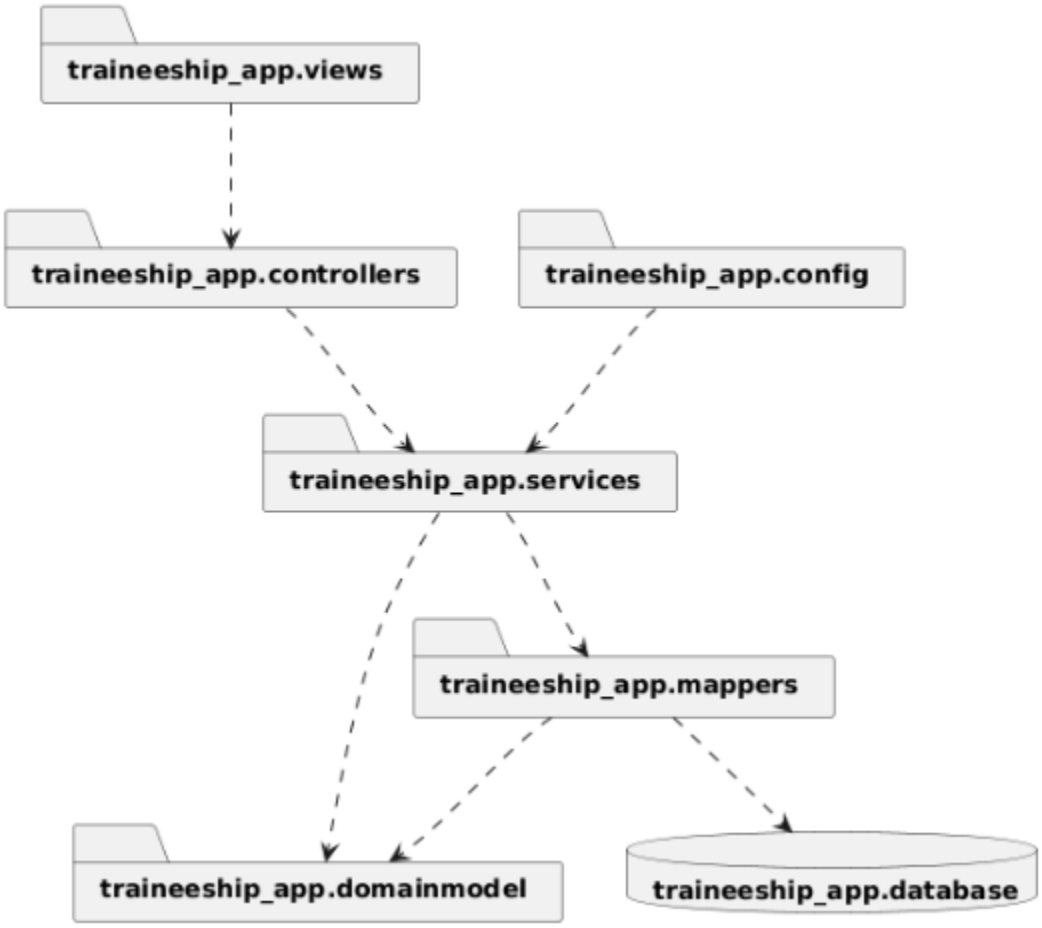
2.8 Use Case Diagrams




Professor
Company
Student
Committeee Member
showSupervising Positions
evaluateTrainee
deletePosition
addPosition
showAssigned Positions
showAvailable Positions
terminateTraineeship
monitorTraineeship
applyForTraineeship
fillLogbook
showApplicants
showMatching Positions
assignPosition
showTraineeships InProgress
showAvailable Professors
assignSupervising Professor

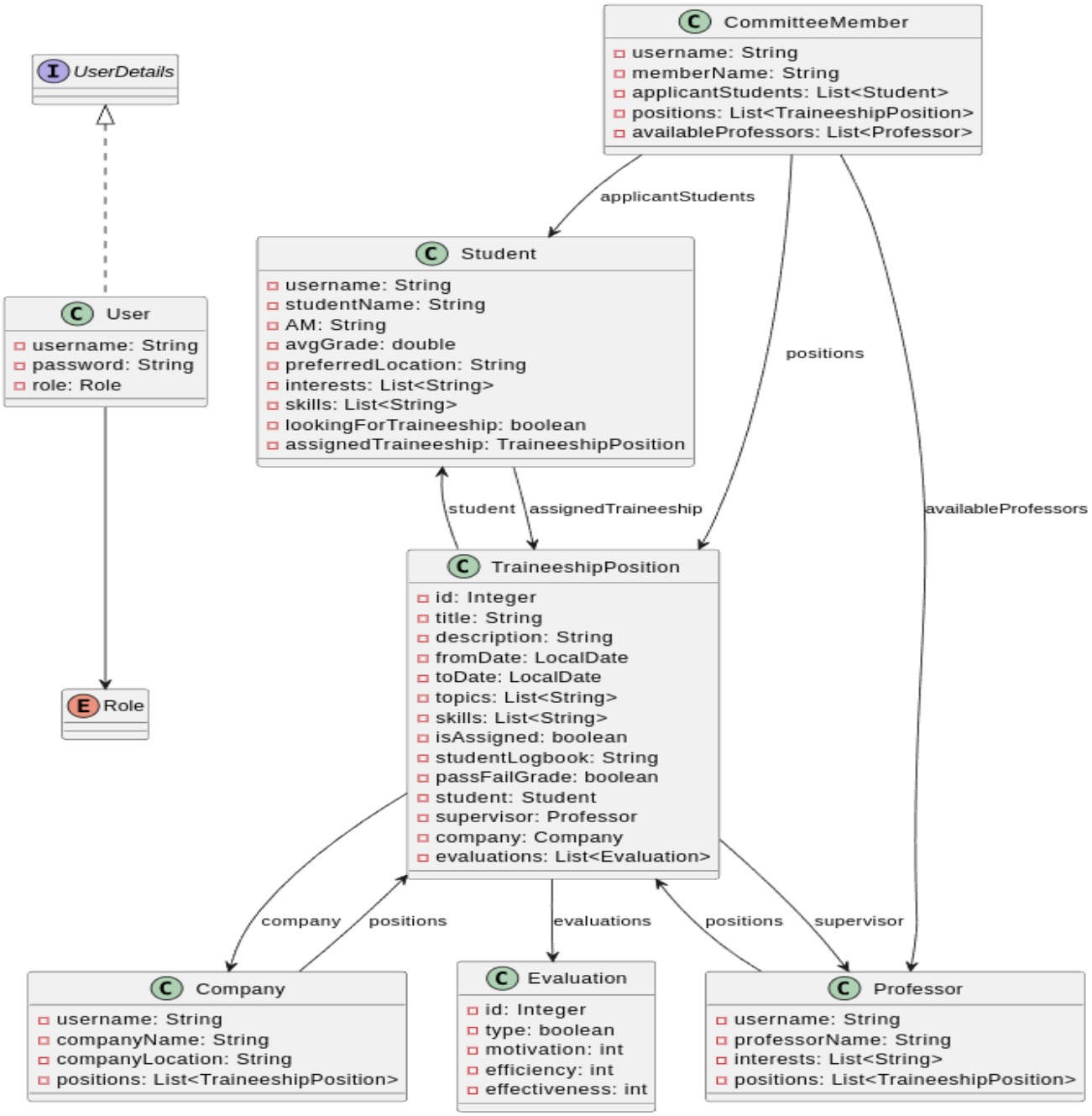
3 Design

3.1 Architecture

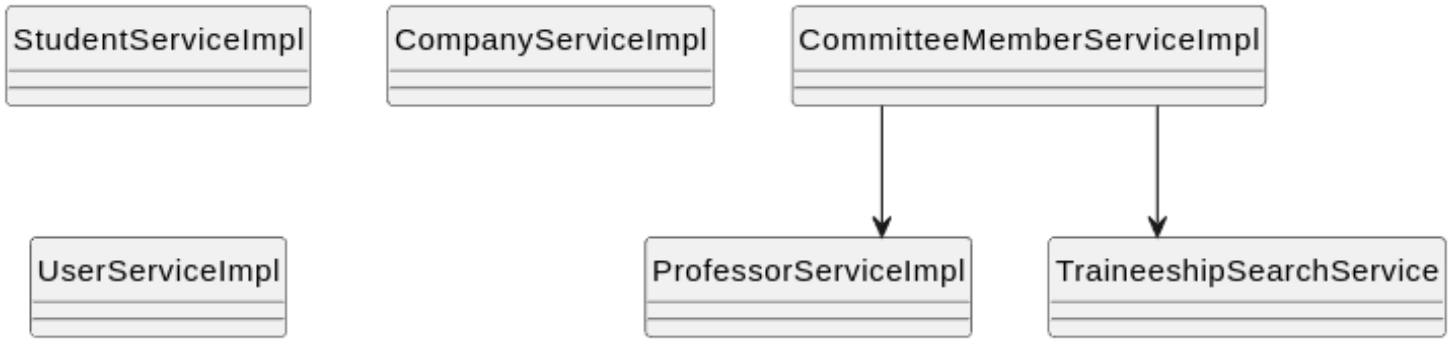


3.2 Design

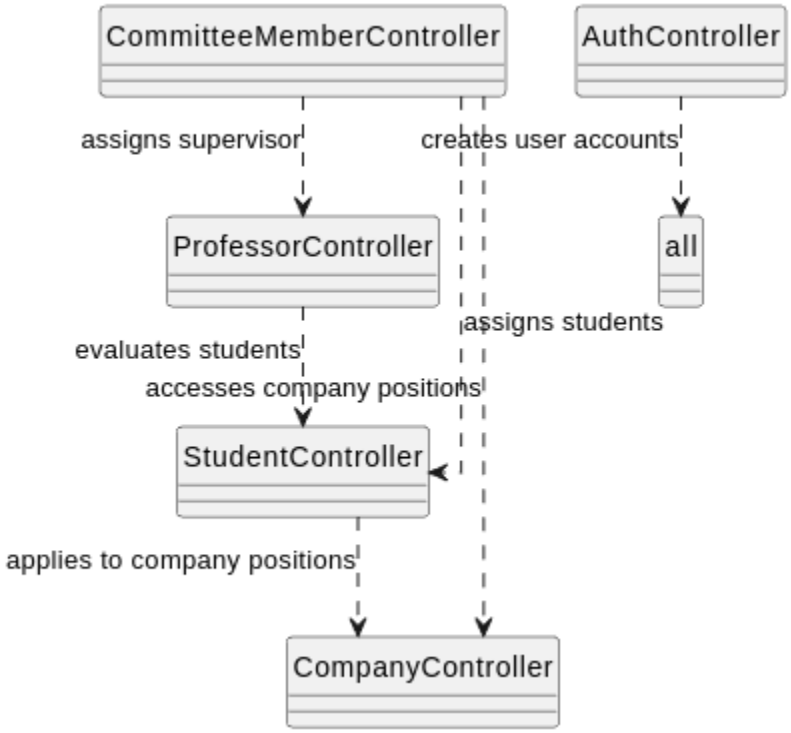
Entities:



Services:



Controllers:



Strategies:

Class Name: CommitteeMemberServiceImpl	
Responsibilities: ▪ Δημιουργεί και ενημερώνει προφίλ CommitteeMember ▪ Διαχειρίζεται φοιτητές πρακτικής ▪ Παρακολουθεί και διαχειρίζεται αξιολογήσεις ▪ Ολοκληρώνει Πρακτικές	**Collaborations:** ▪ StudentMapper ▪ CompanyMapper ▪ TraineeshipPositionMapper ▪ CommitteeMemberMapper

Class Name: CompanyServiceImpl	
Responsibilities: ▪ Δημιουργεί και ενημερώνει προφίλ εταιρίας ▪ Ανακτά και διαχειρίζεται θέσεις για πρακτική ▪ Παρέχει αξιολογήσεις για πρακτικές	**Collaborations:** ▪ CompanyMapper ▪ EvaluationMapper ▪ TraineeshipPositionMapper

Class Name: ProfessorServiceImpl	
Responsibilities: ▪ Δημιουργεί και ενημερώνει προφίλ καθηγητή ▪ Επιβλέπει φοιτητές σε πρακτική ▪ Συμμετέχει στην τελική αξιολόγηση	**Collaborations:** ▪ ProfessorMapper ▪ TraineeshipPositionMapper ▪ EvaluationMapper

Class Name: StudentServiceImpl	
Responsibilities: ▪ Δημιουργεί και ενημερώνει φοιτητικό προφίλ ▪ Υποβάλλει αιτήσεις πρακτικής ▪ Ενημερώνει logbook	**Collaborations:** ▪ StudentMapper ▪ TraineeshipPositionMapper

Class Name: UserServiceImpl	
Responsibilities: ▪ Δημιουργεί λογαριασμούς ▪ Βρίσκει Users με το Username τους	**Collaborations:** ▪ UserMapper

Class Name: AuthController	
Responsibilities: ▪ Διαχειρίζεται login/logout χρηστών ▪ Διαχειρίζεται την δημιουργία νέων χρηστών	**Collaborations:** ▪ UserService

Class Name: CommitteeMemberController	
Responsibilities: ▪ Διαχειρίζεται τις λειτουργίες της επιτροπής ▪ Παρουσιάζει δεδομένα όλων των traineeships	**Collaborations:** ▪ CommitteeMemberService ▪ Evaluation ▪ TraineeshipPosition ▪ Professor ▪ Student ▪ CommitteeMember

Class Name: CompanyController	
Responsibilities: ▪ Ελέγχει τα δεδομένα εταιρικού προφίλ ▪ Εμφανίζει όλες τις λειτουργίες της εταιρίας	**Collaborations:** ▪ CompanyService ▪ Company ▪ TraineeshipPosition

Class Name: ProfessorController	
Responsibilities: ▪ Προβάλει δεδομένα προφίλ καθηγητή ▪ Καταχωρεί αξιολογήσεις ▪ Εμφανίζει όλες τις λειτουργίες του καθηγητή	**Collaborations:** ▪ ProfessorService ▪ Professor ▪ TraineeshipPosition ▪ Evaluation

Class Name: StudentController	
Responsibilities: ▪ Προβάλει δεδομένα προφίλ φοιτητή ▪ Διαχειρίζεται το logbook του μαθητή	**Collaborations:** ▪ StudentService ▪ TraineeshipPosition