

Sprint Review #2

PROJECT MANAGEMENT SYSTEM

Group 4
30/01/2023



Instituto Superior de
Engenharia do Porto



SUMMARY

Work Methodology

Sprint Goal

Domain Model

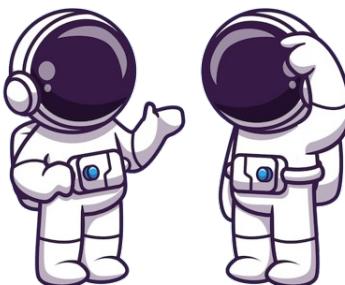
User Stories | Class Diagram & Sequence Diagram

Demo

Overview

WORK METHODOLOGY

- Requirements engineering | OO Analysis → Small groups
- OO Design → US - SSD, SD and CD / Team member
- OO Implementation → US / Team member



SPRINT GOAL

10/01 a 30/01/23

Requirements Engineering



- Glossary
- Customer specifications and clarifications
- System Sequence Diagram (SSD)
- Use Case Diagram (UCD)

OO Analysis



- Domain model

OO Design



- Class Diagram
- Sequence Diagrams

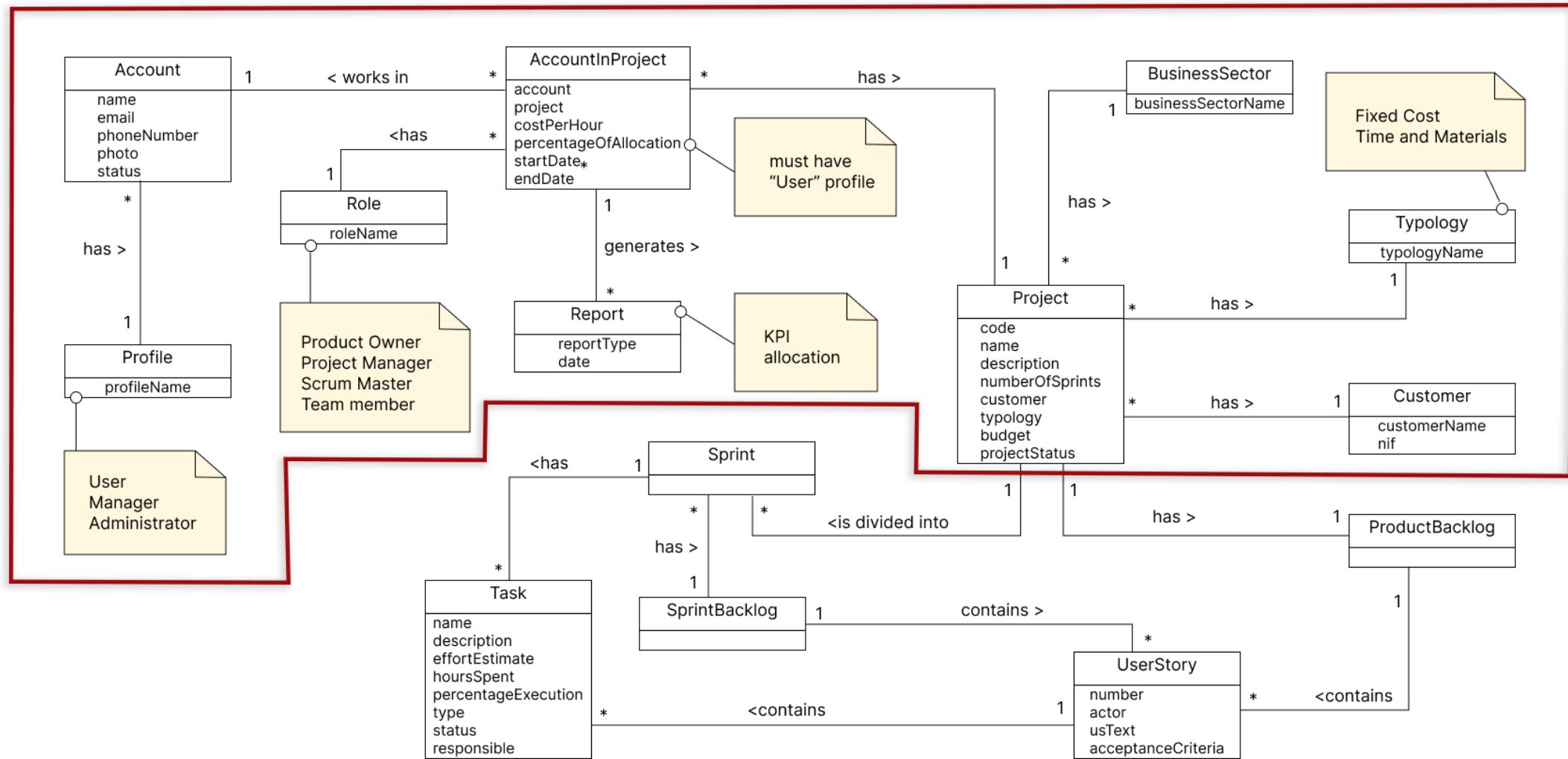
Implementation



- Code
- Tests

DOMAIN MODEL





USER STORY 7

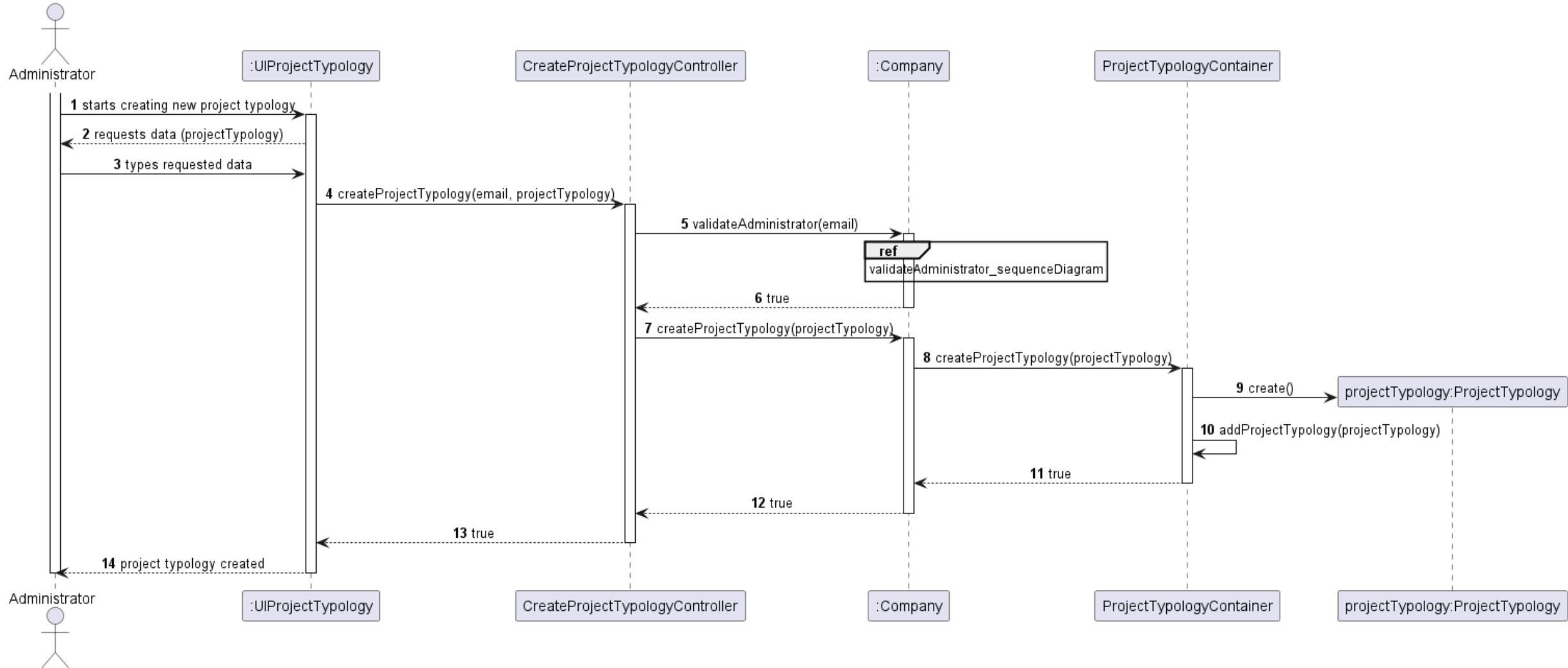
Class Diagram
Sequence Diagram



US007

CREATE A NEW PROJECT TYPOLOGY

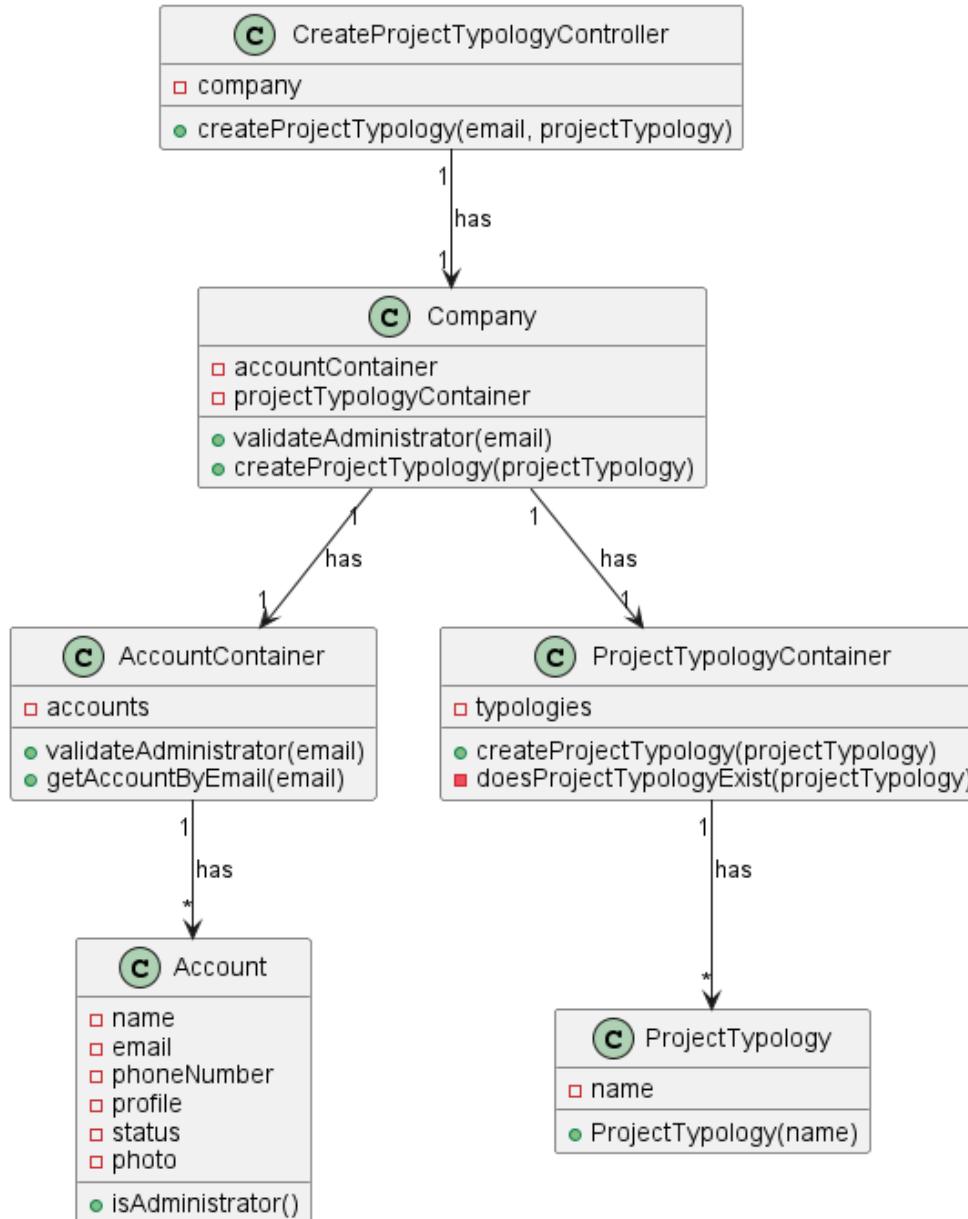
US007 - As Administrator, I want to create a new project typology.



CREATE A NEW PROJECT TYPOLOGY

US007 - As Administrator, I want to create a new project typology.

US007



US007 Tests

- Verify that a new project typology is successfully created if the actor is the administrator
- Verify that a project typology is not created if it already exists
- Verify that a project typology is not created if the name is invalid (empty)
- Verify that a project typology is not created if the actor is not the administrator

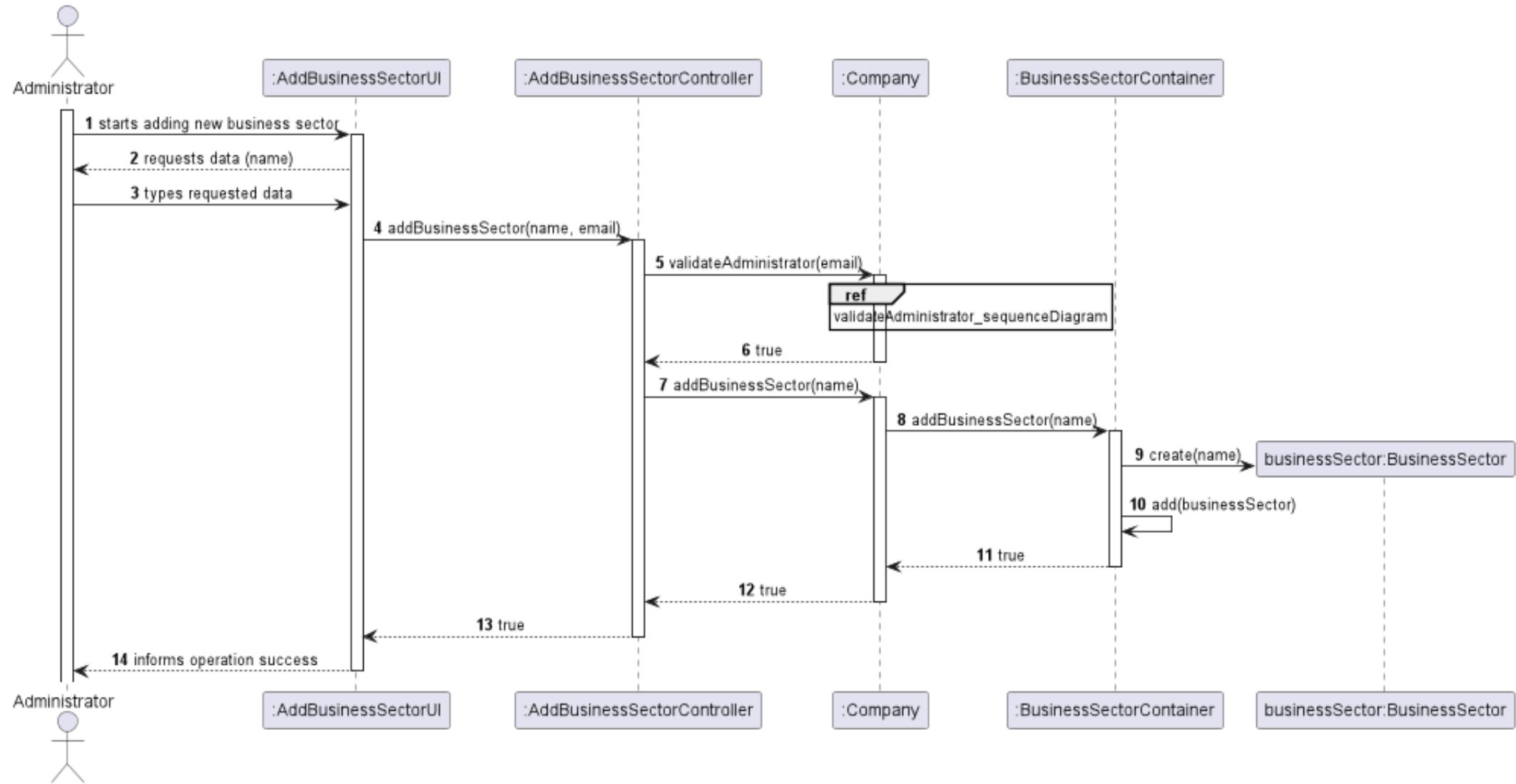
USER STORY 8

Class Diagram
Sequence Diagram

US008

TO ADD BUSINESS SECTOR

US008 - As Administrator, I want to add a business sector.

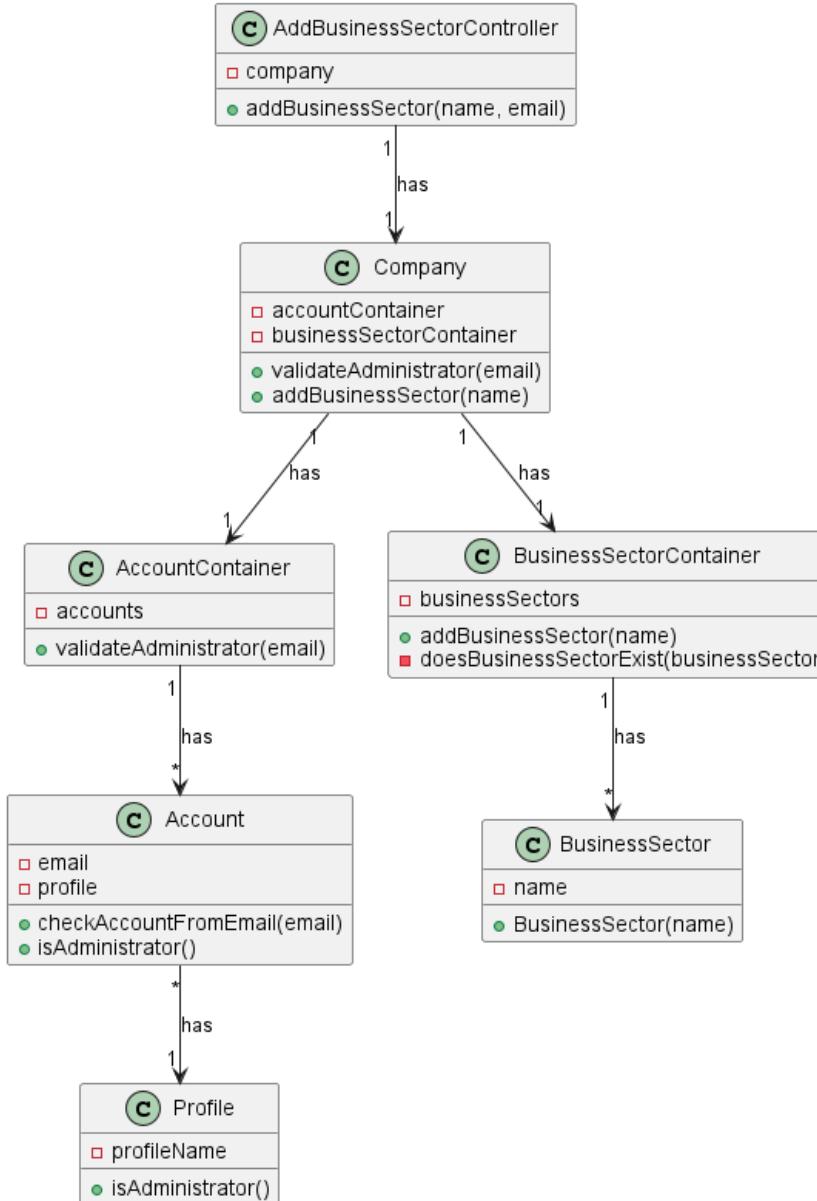


US008 Tests

- Verify that a new business sector is successfully created if the actor is the administrator
- Verify that a business sector is not created if it already exists
- Verify that a business sector is not created if the actor is not the administrator

US008**TO ADD BUSINESS SECTOR**

US008 - As Administrator, I want to add a business sector.

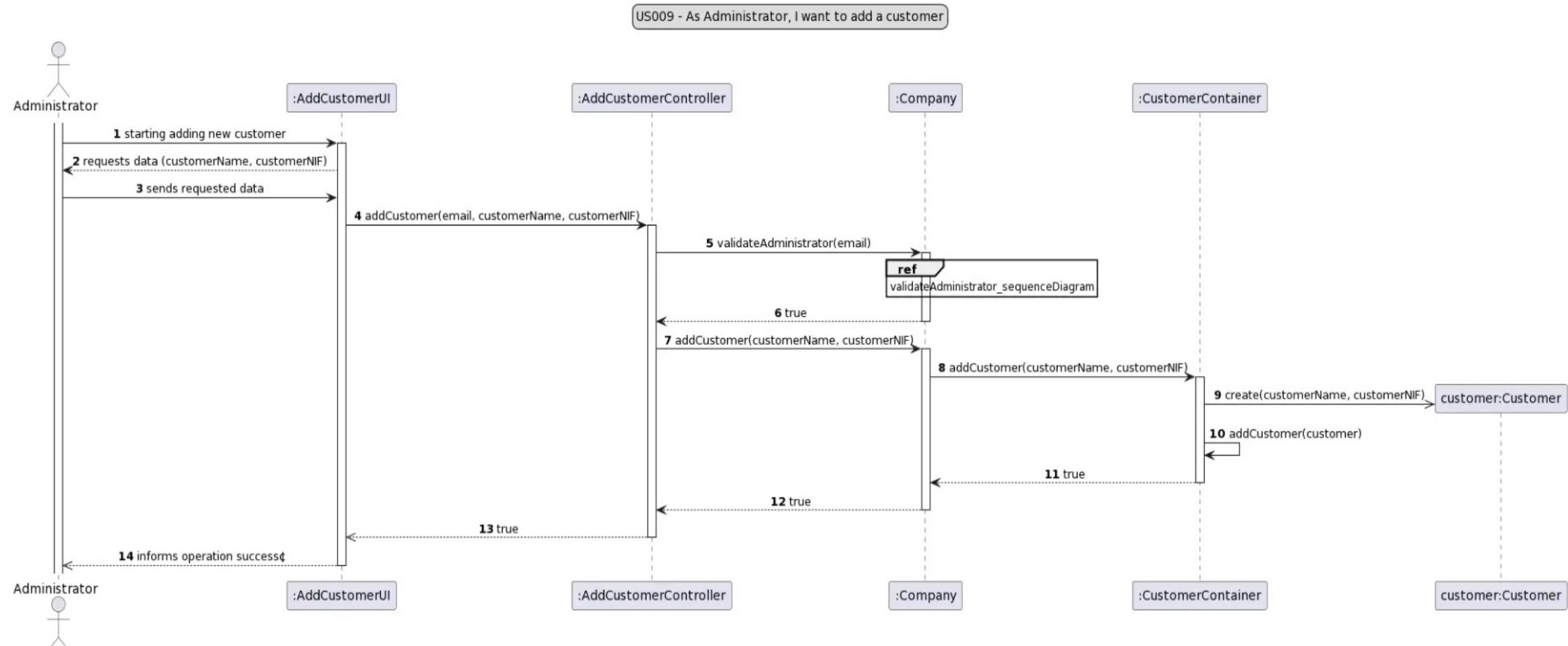


USER STORY 9

Class Diagram
Sequence Diagram

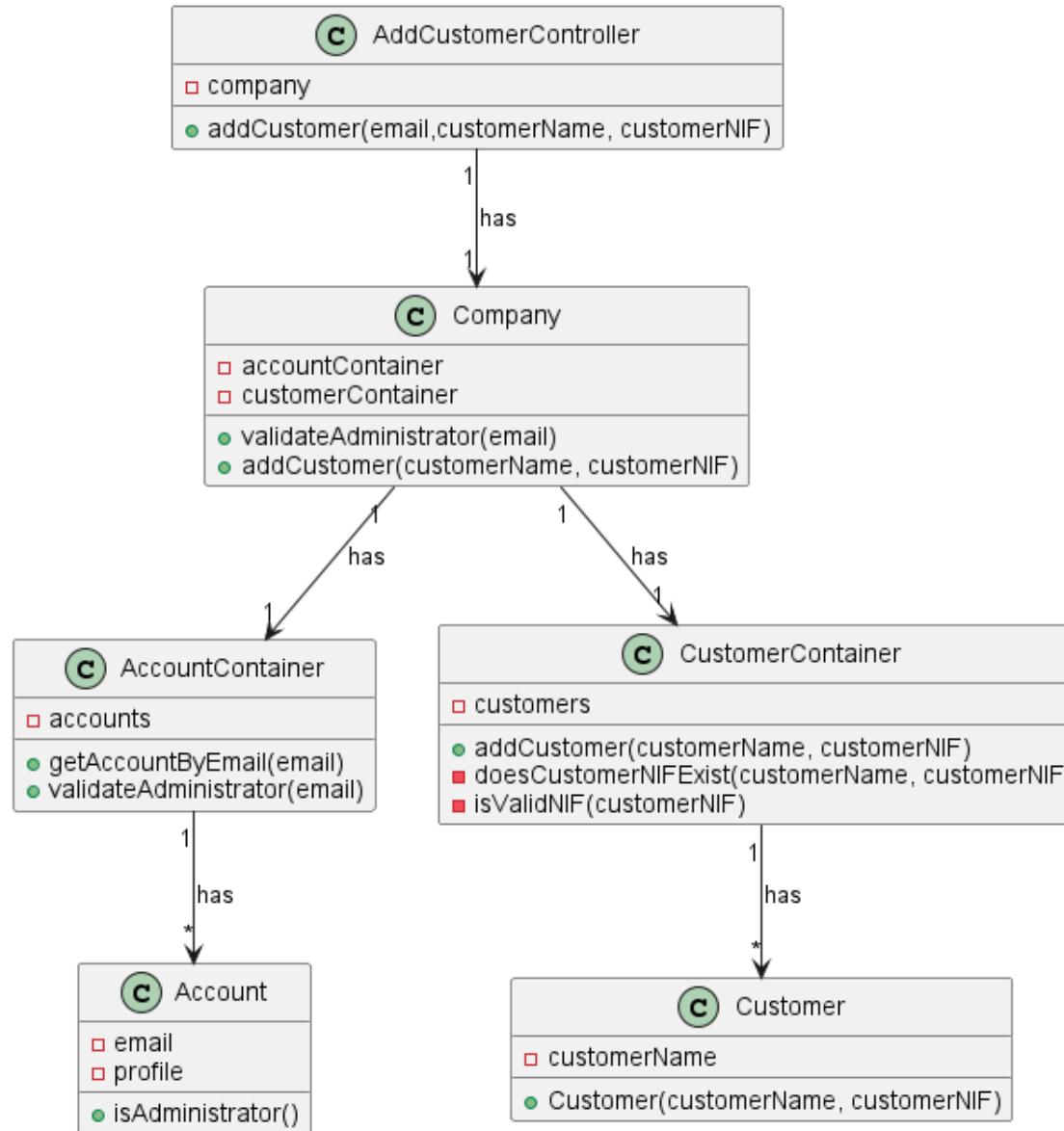
US009

TO ADD A CUSTOMER



US009**TO ADD A CUSTOMER**

US009 - As Administrator, I want to add a customer



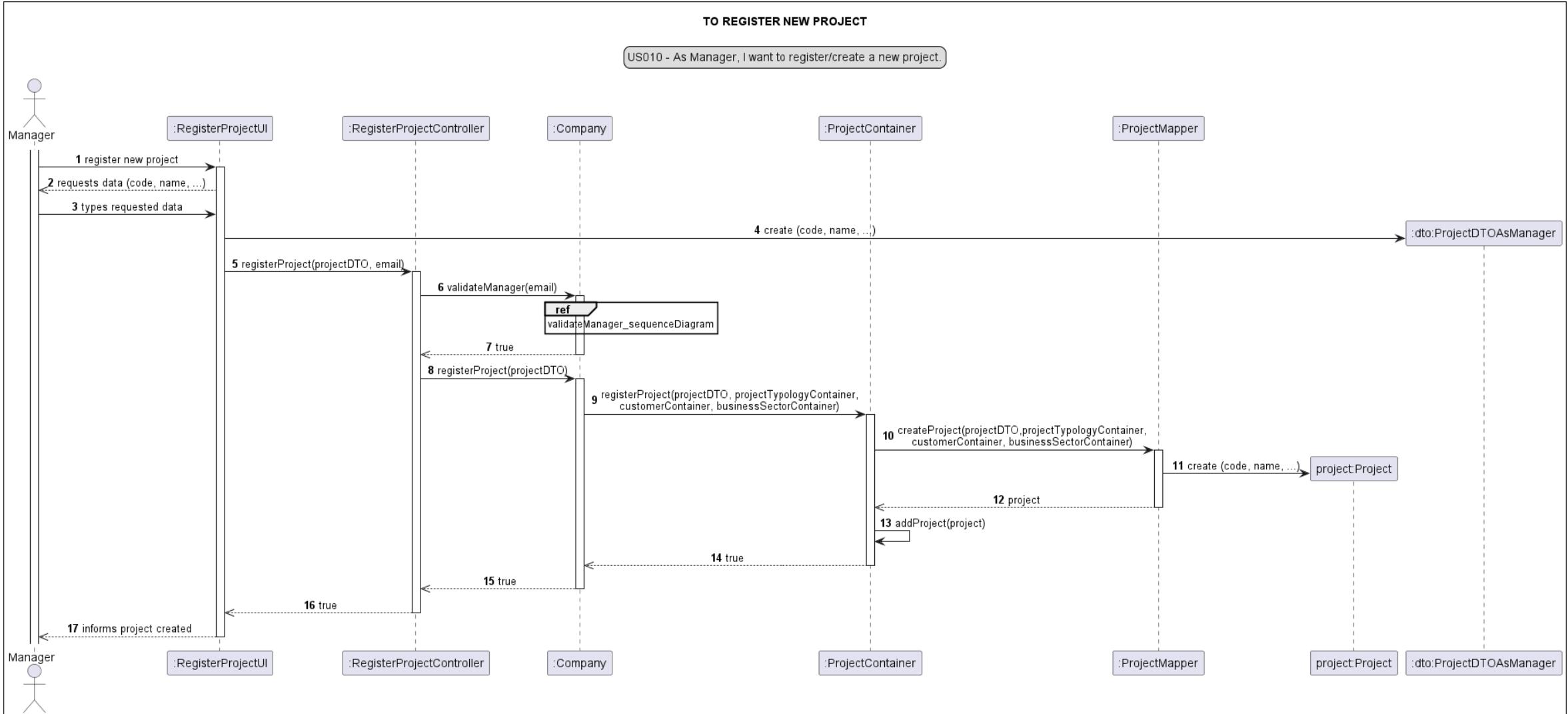
US009 Tests

- ✓ Verify that a new customer is successfully added if the actor is the administrator
- ✓ Verify that a new customer is not added if the name is invalid (empty)
- ✓ Verify that a new customer is not added if the actor is not the administrator
- ✓ Verify that a new customer is not added if its NIF is empty

USER STORY 10

Class Diagram
Sequence Diagram

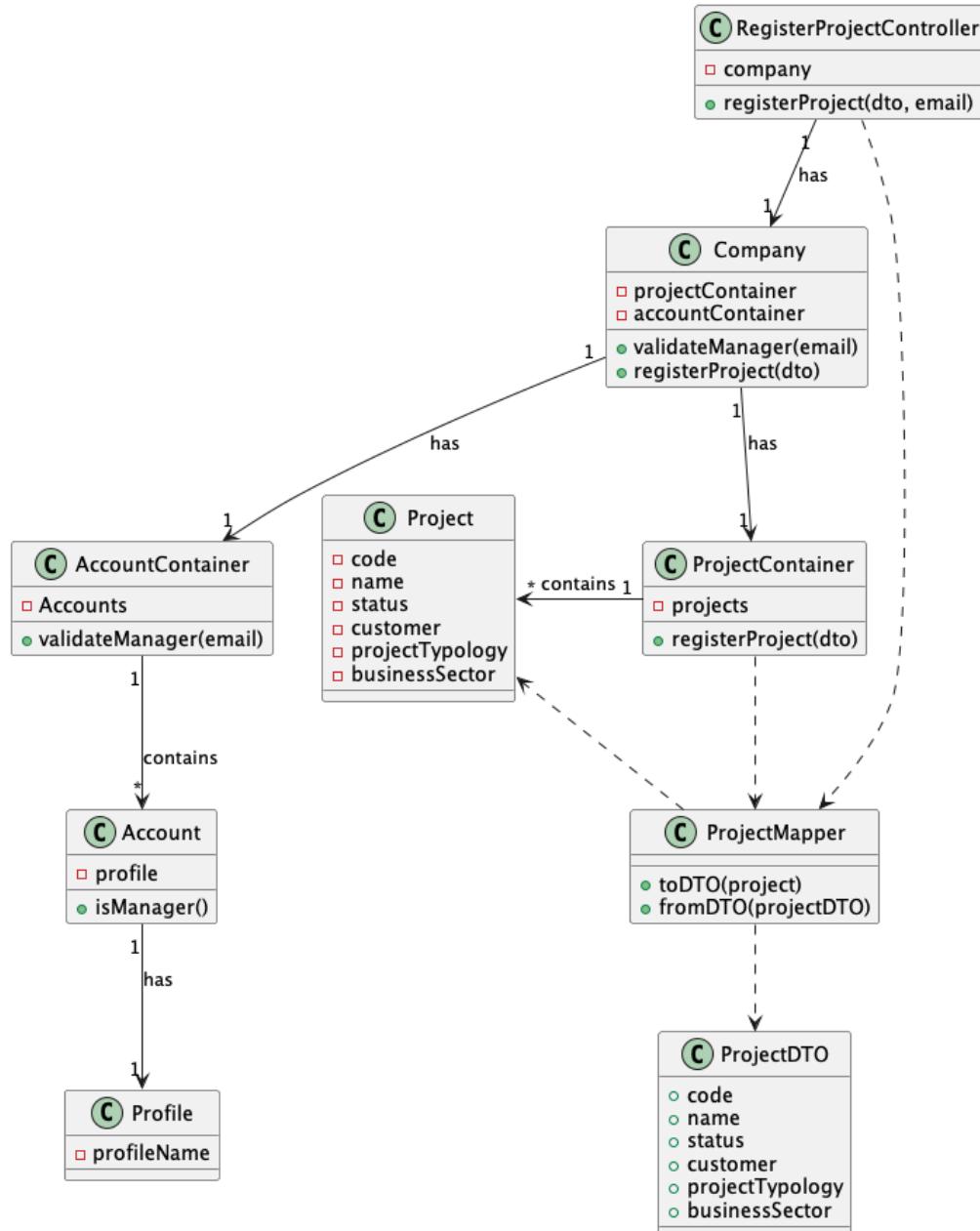
US010



US010

TO REGISTER NEW PROJECT

US010 – As Manager, I want to register/create a new project.



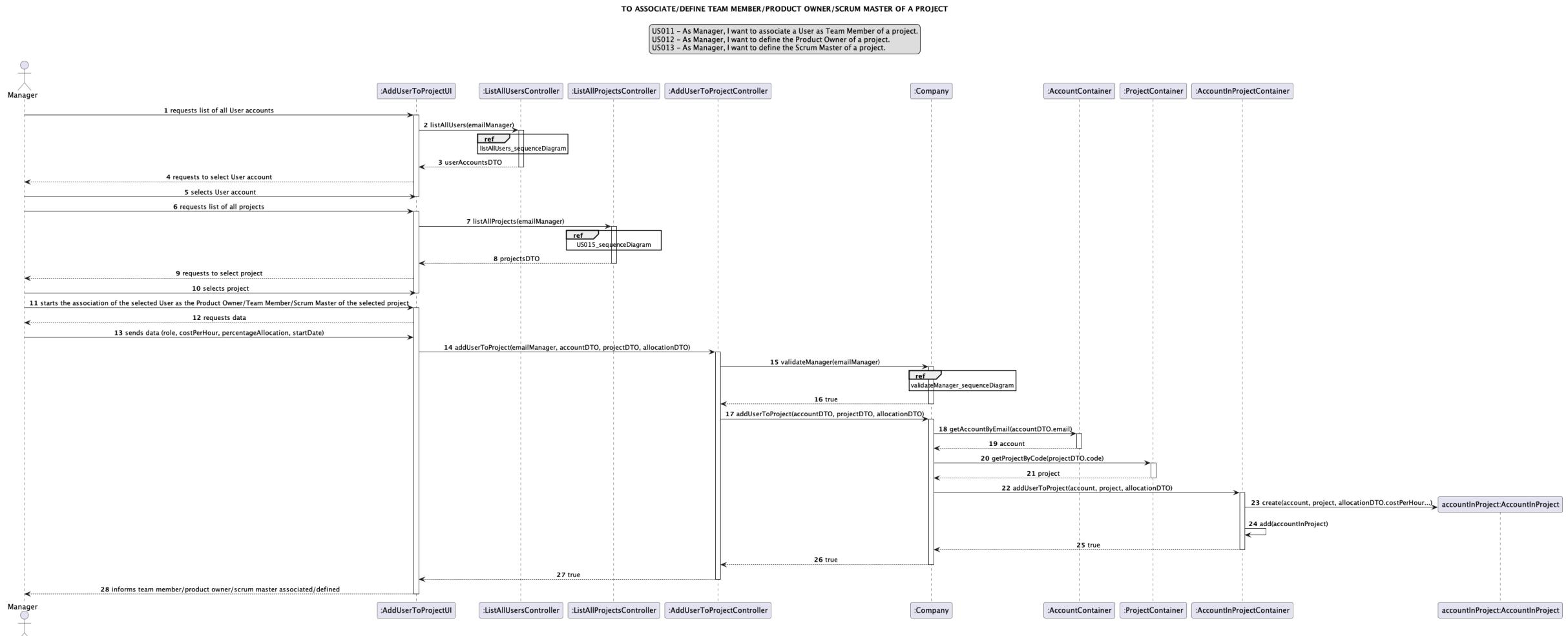
US010 Tests

- ✓ Verify that a new project is registered if the actor is the manager
- ✓ Verify that a project is not registered if it already exists
- ✓ Verify that a project is not registered if the actor is not the manager

USER STORIES 11-13

Class Diagram
Sequence Diagram

US011 – US013



TO ASSOCIATE/DEFINE TEAM MEMBER/PRODUCT OWNER/SCRUM MASTER OF A PROJECT

US011 – US013

US011 - As Manager, I want to associate a User as Team Member of a project.
 US012 - As Manager, I want to define the Product Owner of a project
 US013 - As Manager, I want to define the Scrum Master of a project.



US011 – US 013 Tests

- Verify that a Team Member/Product Owner/Scrum Master is allocated to a project if the actor is the manager
- Verify that a Team Member/Product Owner/Scrum Master is not allocated to a project if the actor is not the manager
- Verify that a Team Member/Product Owner/Scrum Master is not allocated to a non-existent project

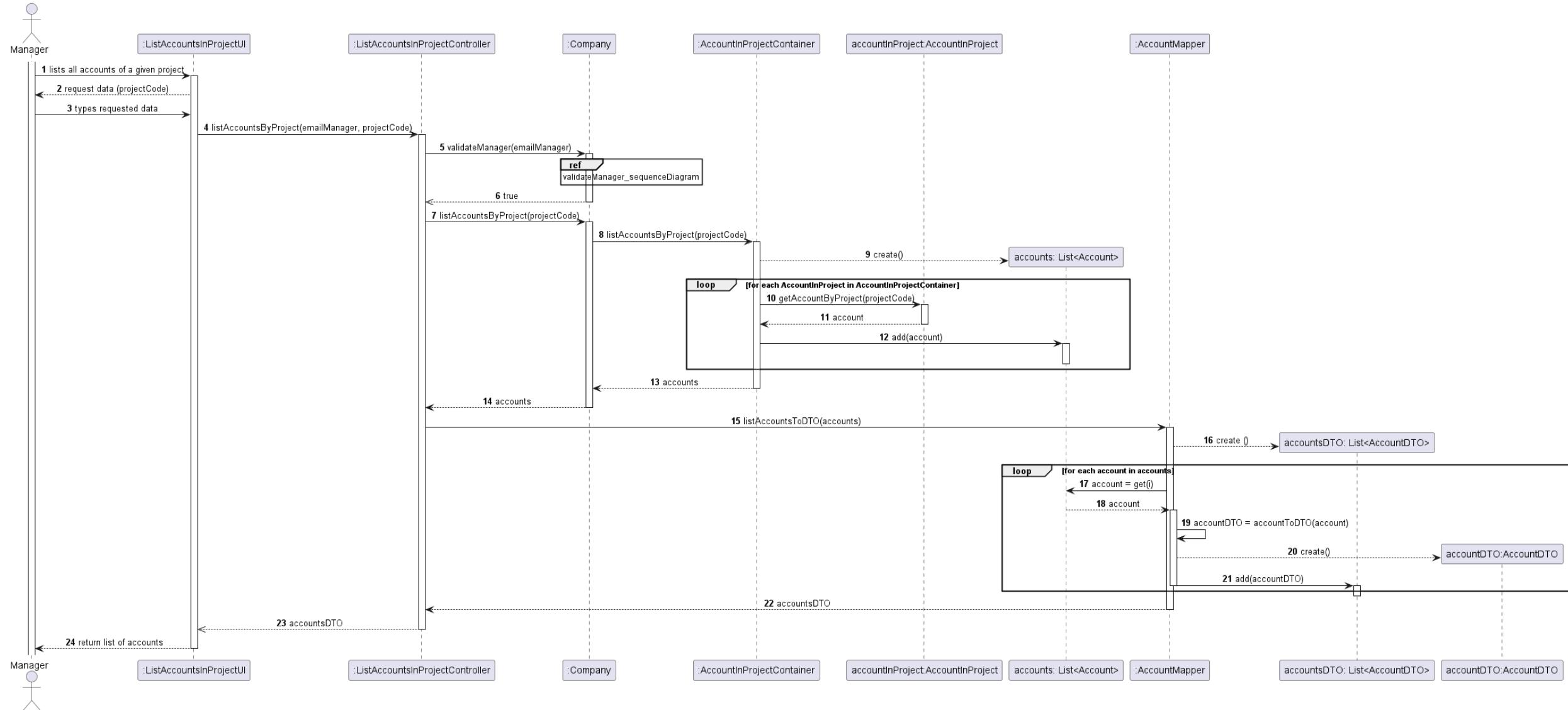
USER STORY 14

Class Diagram
Sequence Diagram

US014

TO LIST ALL ACCOUNTS IN A GIVEN PROJECT

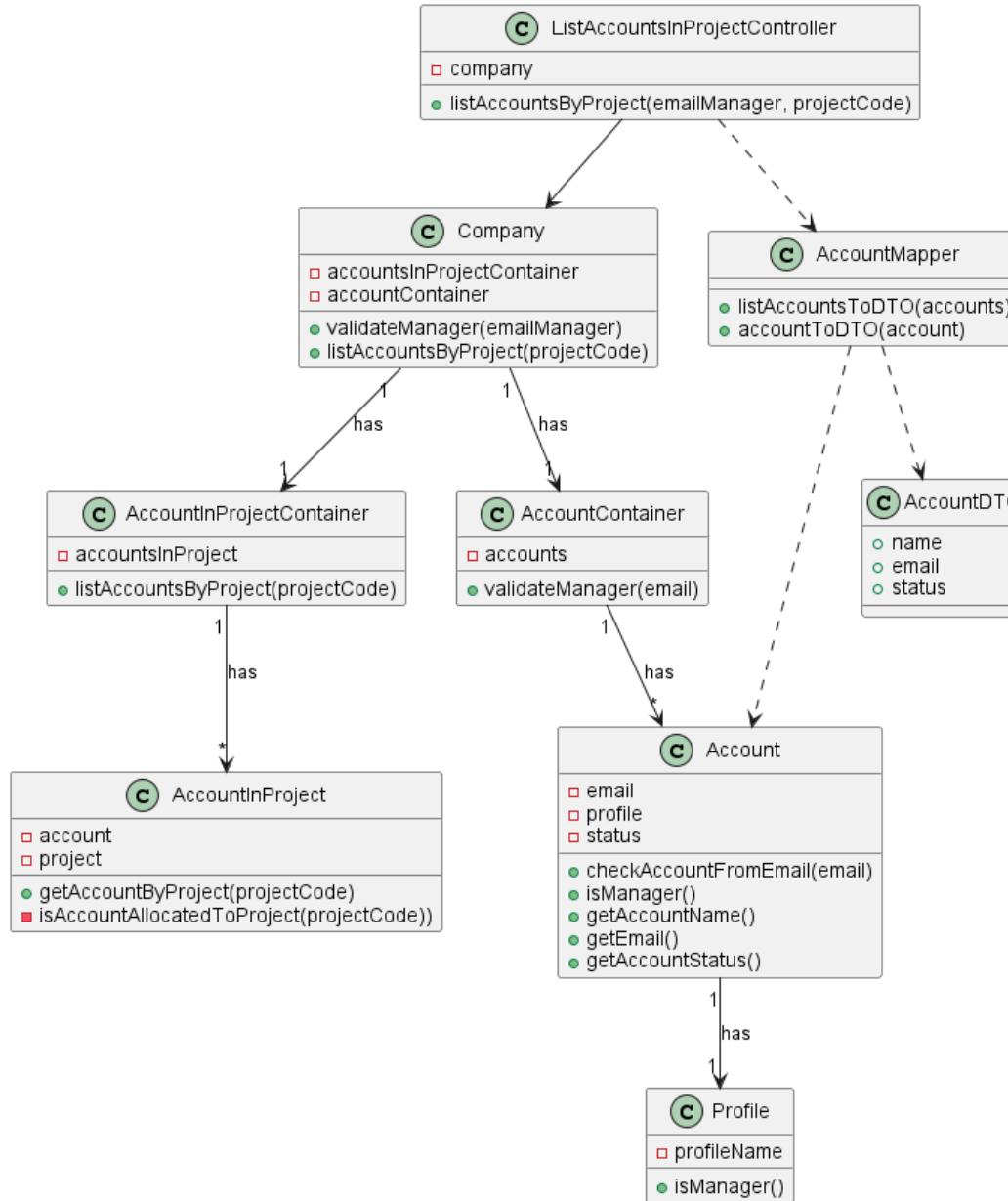
US014 - As Manager, I want to get a list of all human resources in a project.



US014

TO LIST ALL ACCOUNTS IN A GIVEN PROJECT

US014 - As Manager, I want to get a list of all human resources in a project.



US014 Tests

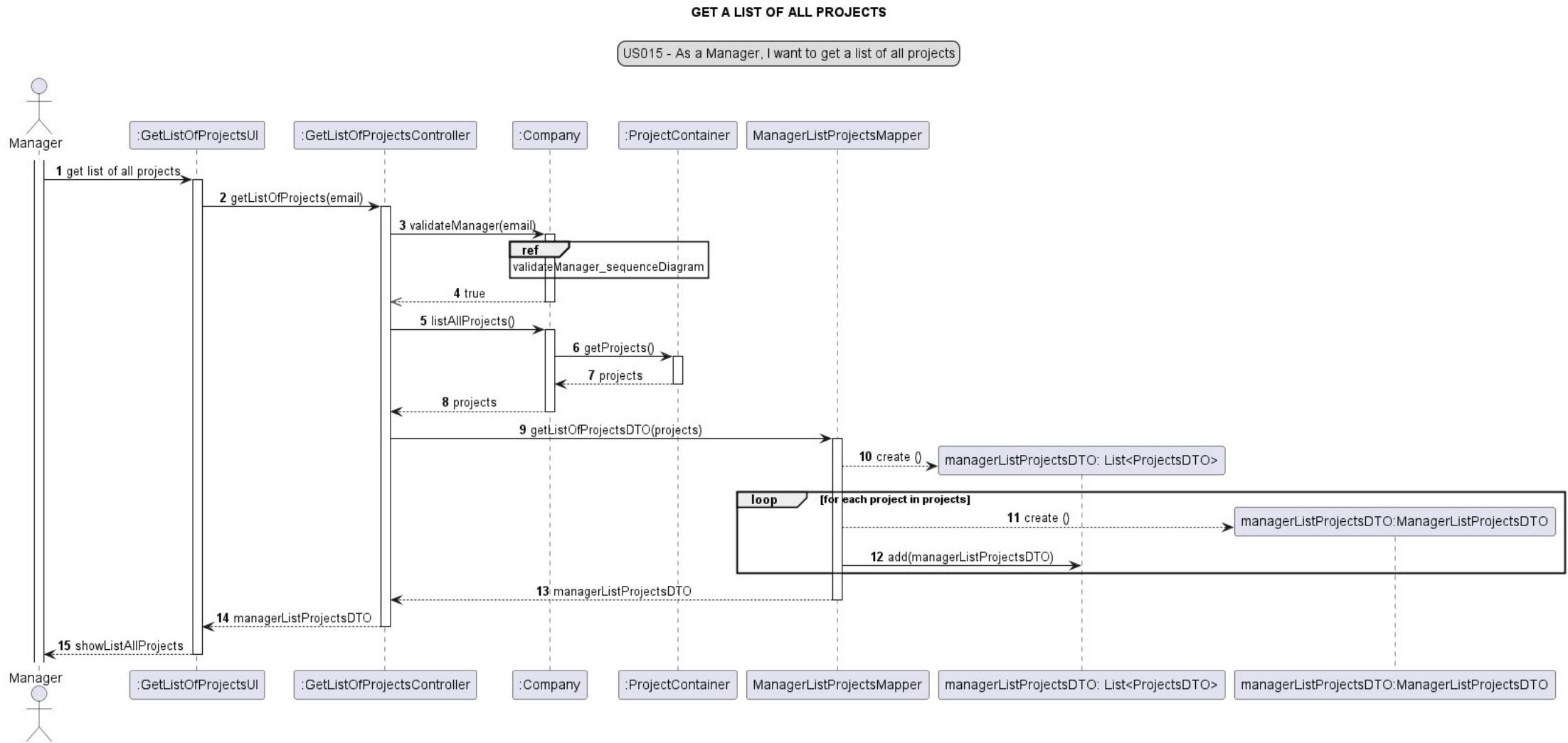
- Verify that the list of all accounts allocated to a project is retrieved if the actor is the manager

- Verify that an empty list is retrieved if the actor is not the manager

USER STORY 15

Class Diagram
Sequence Diagram

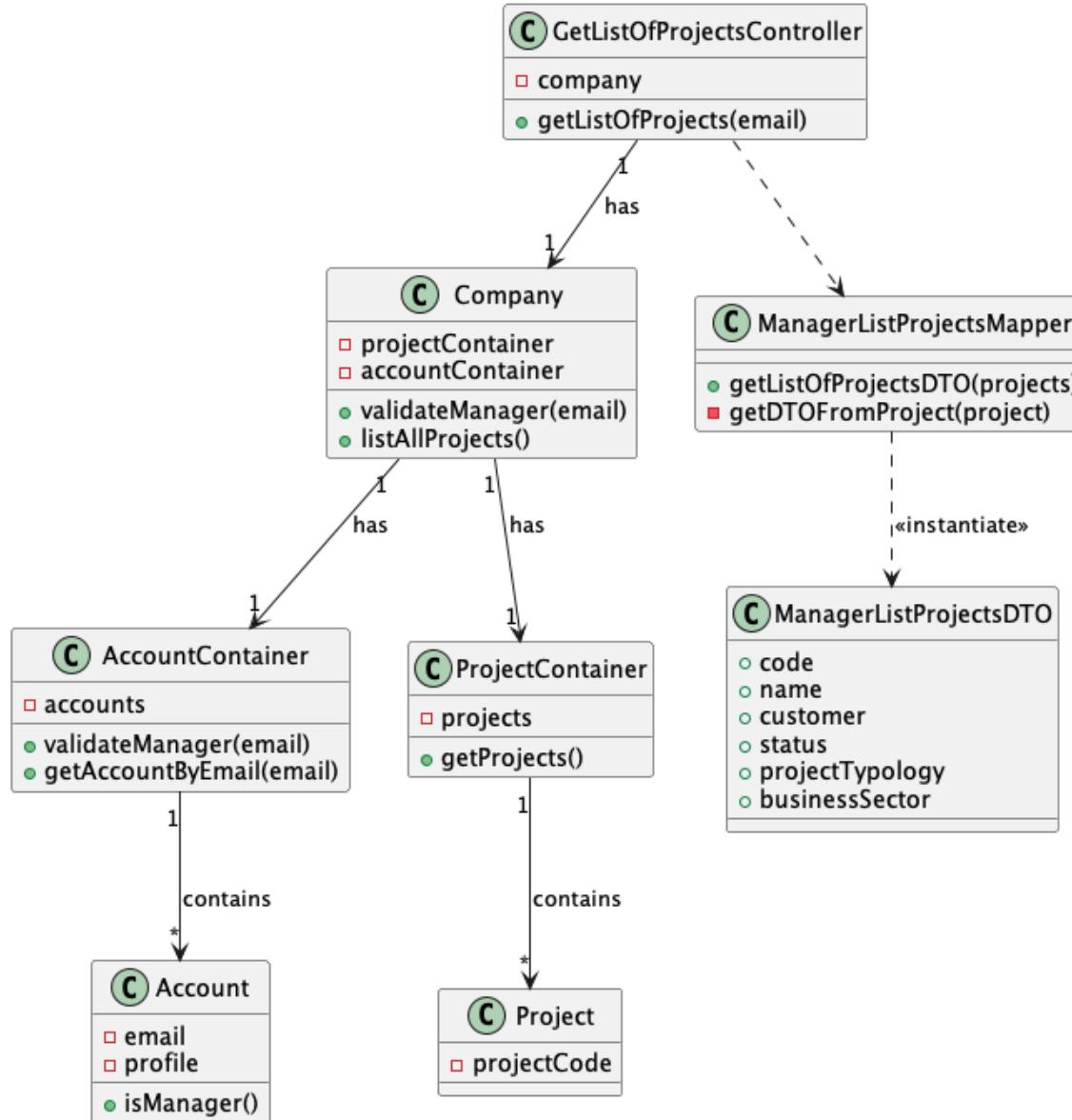
US015



US015

GET A LIST OF ALL PROJECTS

US015 – As a Manager, I want to get a list of all projects



US015 Tests

- Verify that the list of all projects is retrieved if the actor is the manager

- Verify that an empty list is retrieved if the actor is not the manager

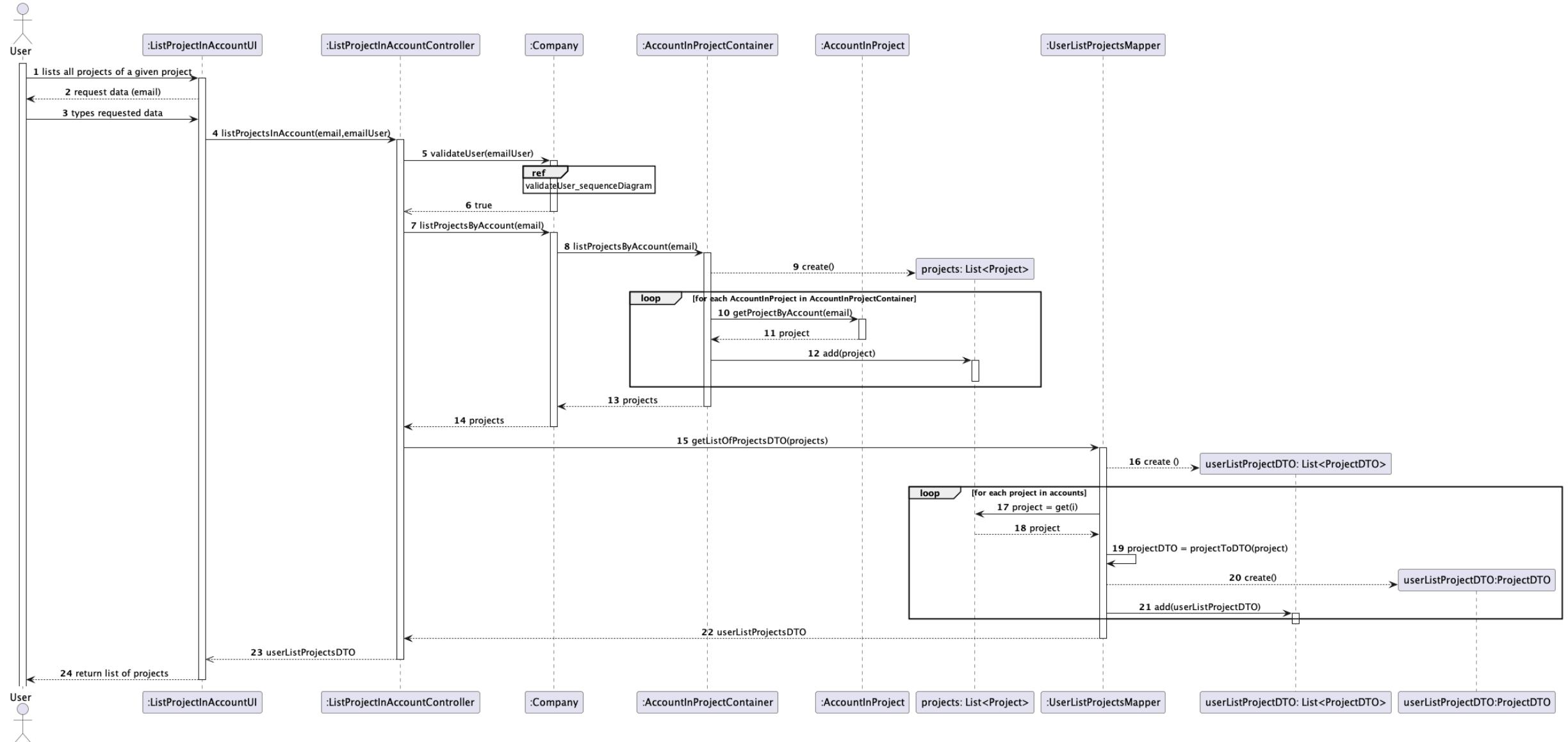
USER STORY 16

Class Diagram
Sequence Diagram

US016

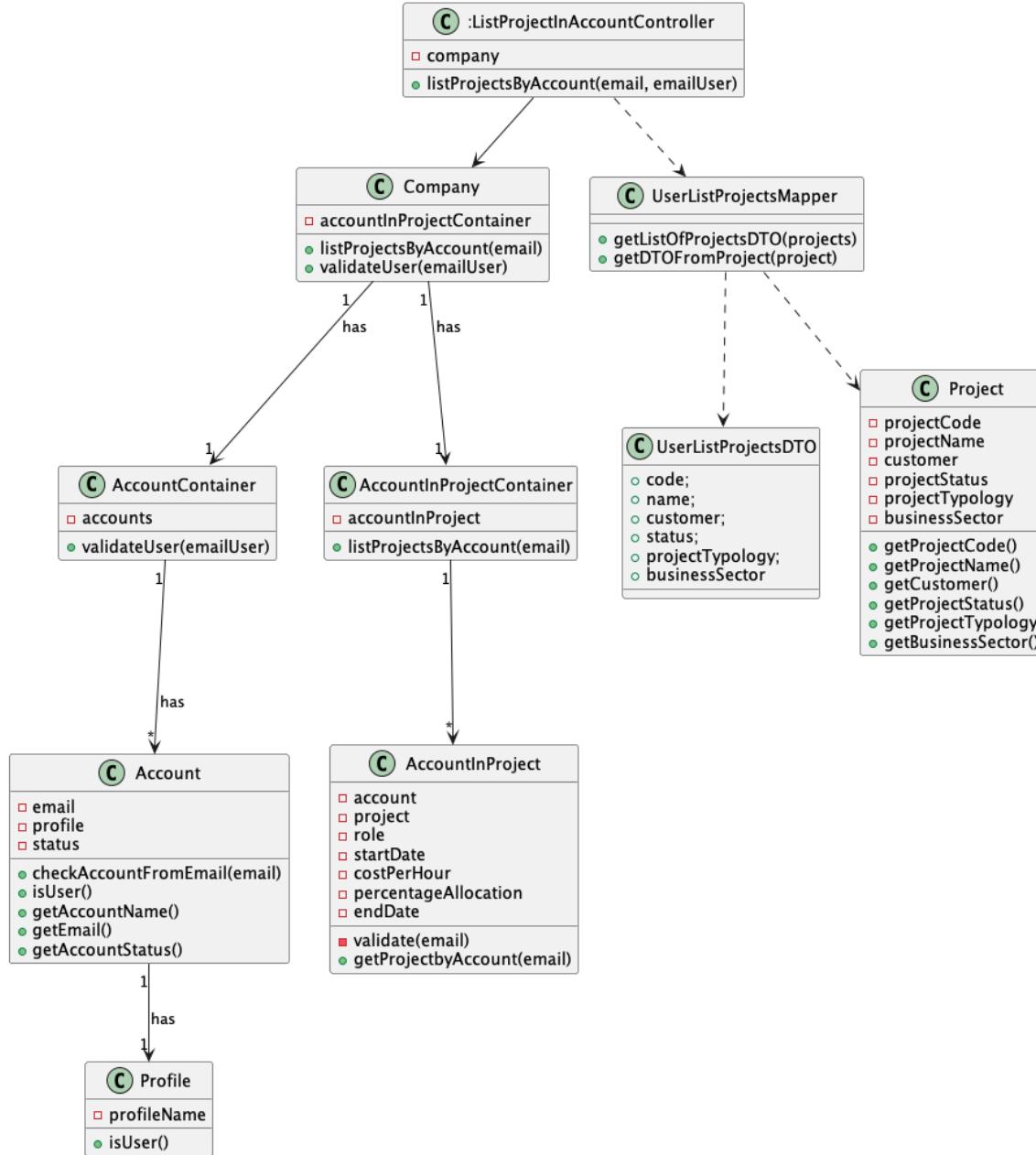
LIST ALL PROJECTS THE USER IS ALLOCATED AS AUTHENTICATED

US016 – As Authenticated User, I want to get a list of all projects I'm currently allocated to.



US016**LIST ALL PROJECTS THE USER IS ALLOCATED AS AUTHENTICATED**

US016 – As Authenticated User, I want to get a list of all projects I'm currently allocated to.



US016 Tests

- ✓ Verify that the list of all projects to which a User is allocated is successfully retrieved
- ✓ Verify that an empty list is retrieved if the User is not allocated to any project

DEMO

Tests demonstration

OVERVIEW



- Good metrics according to SonarQube
- Great cooperation and delegation of tasks



- Improve time management
- Optimize communication between the team
- Adopt standardization for name, structure of code and tests

thank you

Ana Sofia Oliveira - 1221862

Bárbara Oliveira - 1221820

Caroline Silva - 1221823

Cristiana Moreira - 1221826

João Pedro de Magalhães - 1221840

João Pedro Serra - 1221842

Jussara Oliveira - 1221845

Margarida Ferreira - 1221847

Mariana dos Santos – 1221848

Rui Pedro Pinho - 1221860

