

PROJECT

Sprint Review

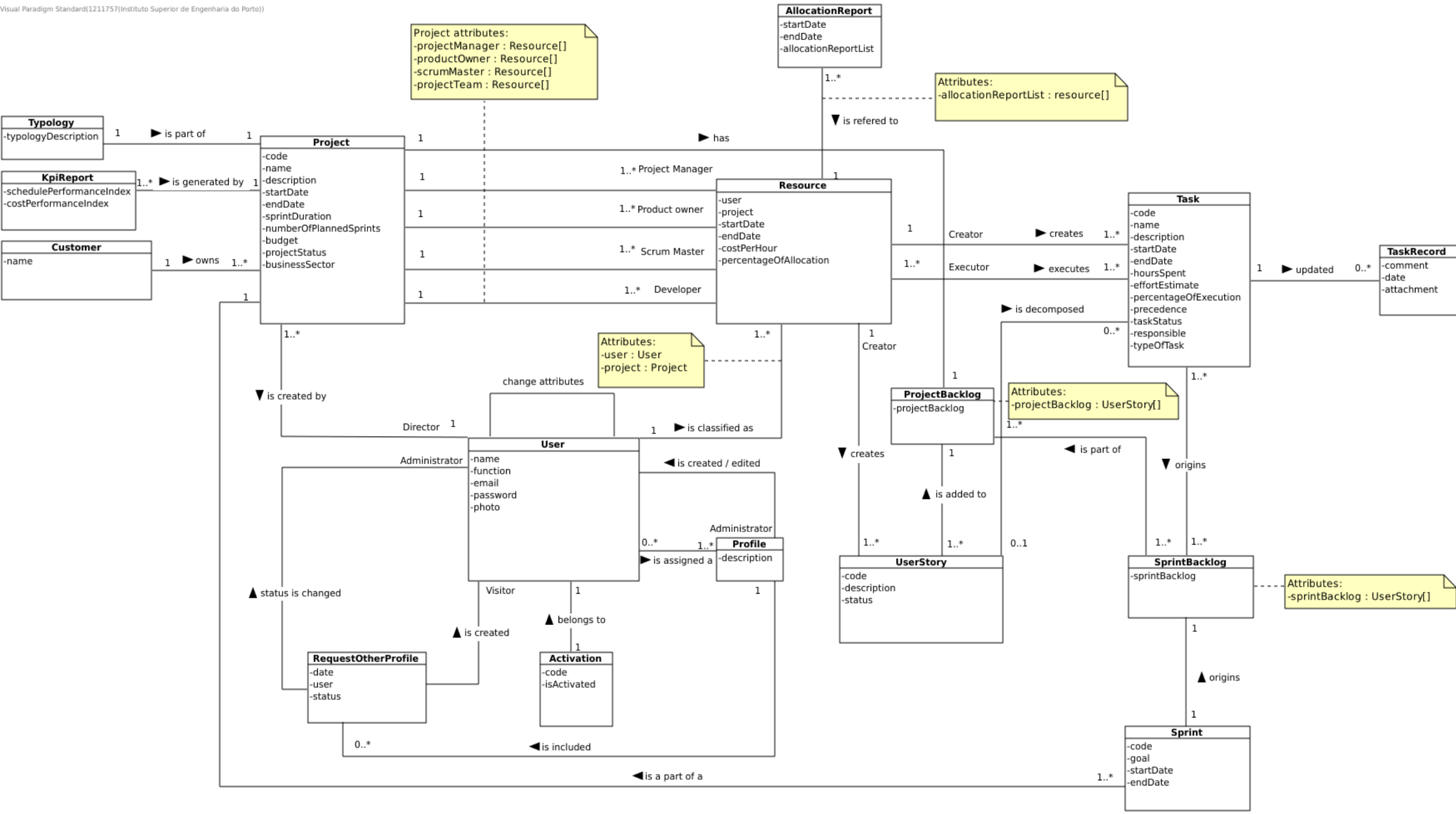
Turma B - Grupo 5

1170053 – Pedro Diniz
1211757 – Daniel Torres
1211759 – Diogo Veloso
1211765 – Gisela Araújo
1211779 – Márcio Carvalheiro
1211785 – Maurício Barros
1211788 – Patrick Rodrigues
1211797 – Tânia Mota
1211799 – Tiago Machado
1211801 – Valter Sousa

Product Backlog

- 1- Provide the actors ability to select data on Java application, when possible, using **Data Transfer Objects**
- 2- Restricts the instantiation of a DataManagement class to one single instance (**Singleton Pattern**)
- 3- Add user profile permissions validation (after implements **user authentication**)

Domain Model

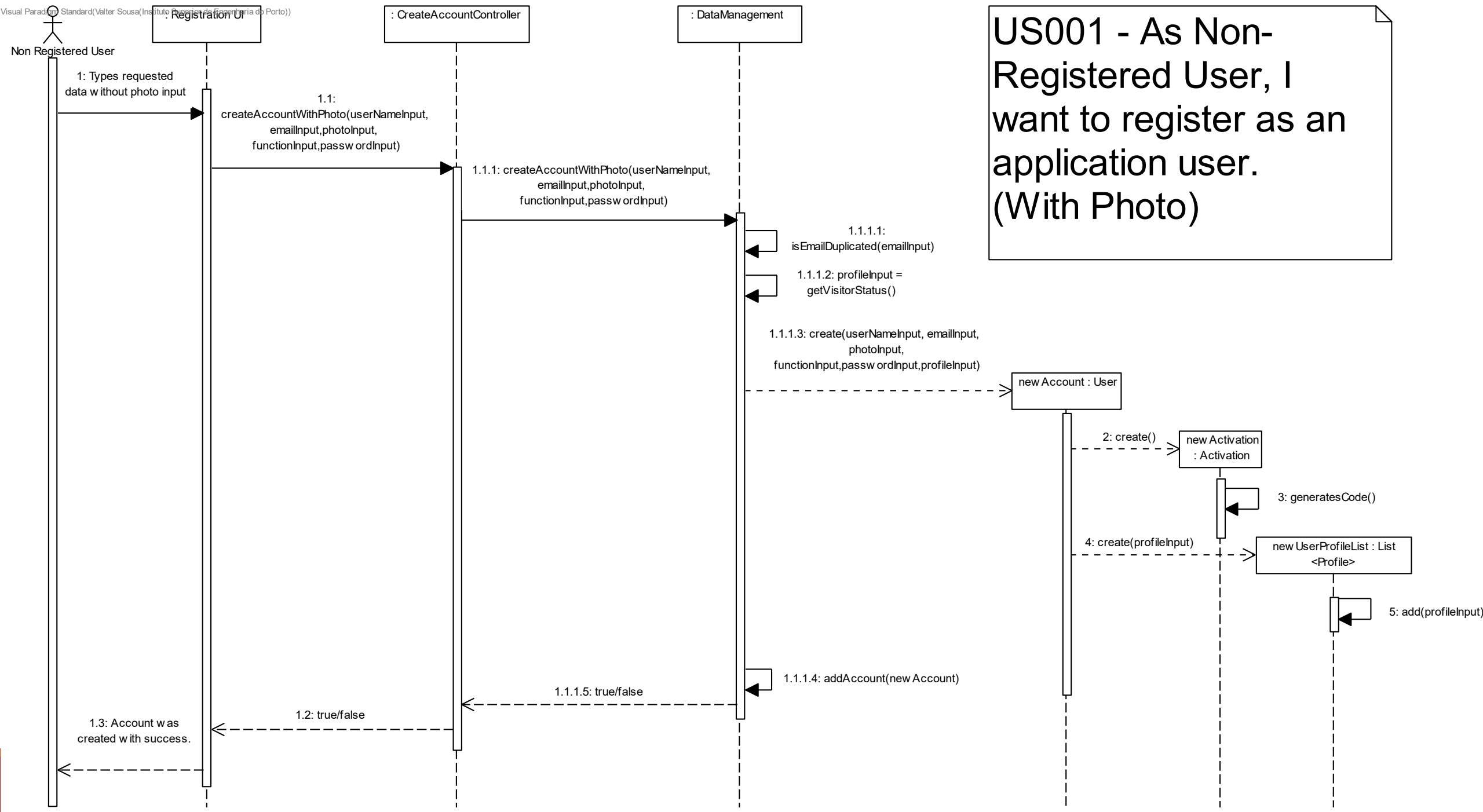


USo1

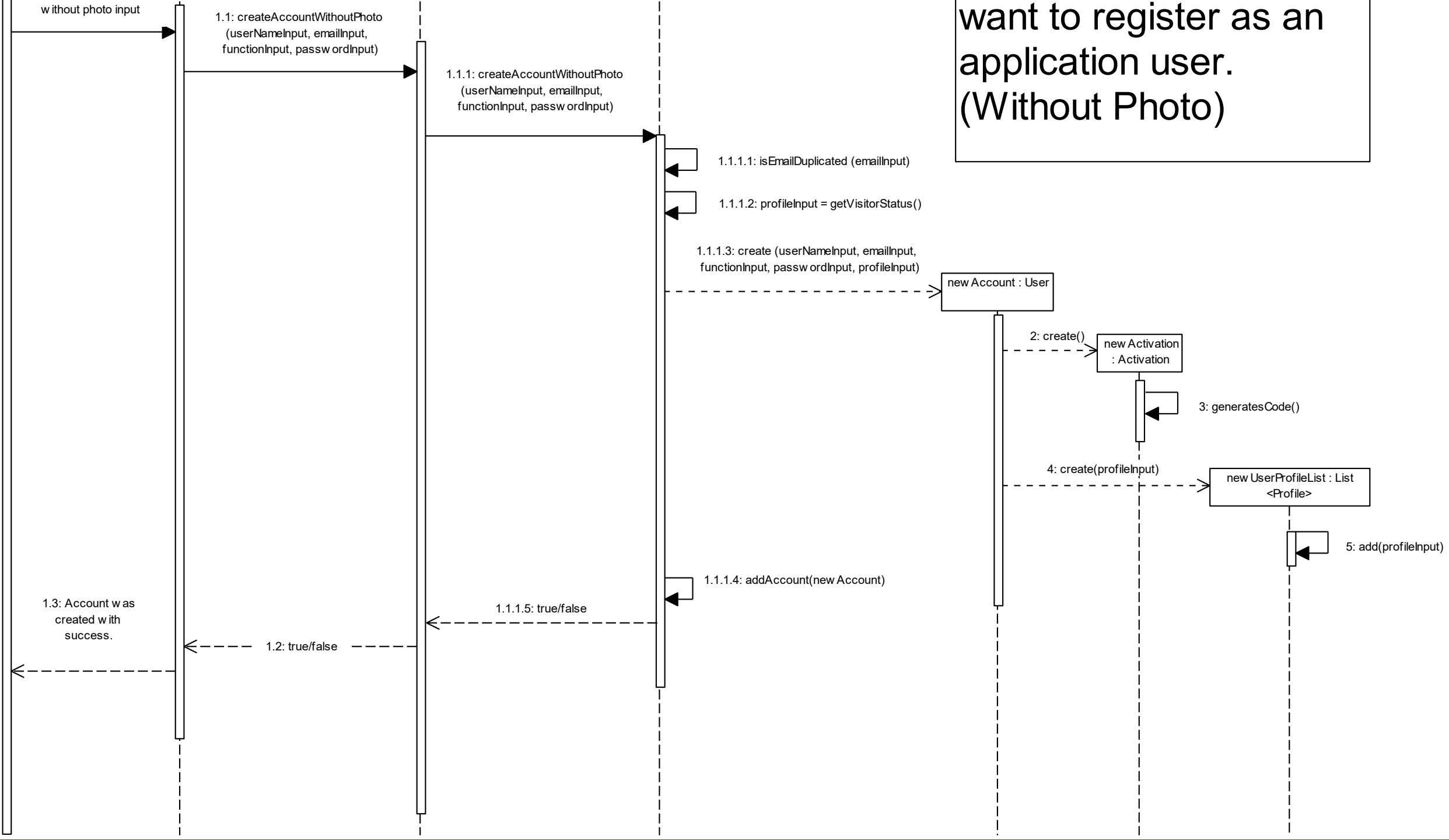
AS NON-REGISTERED USER, I WANT TO REGISTER AS AN APPLICATION USER.

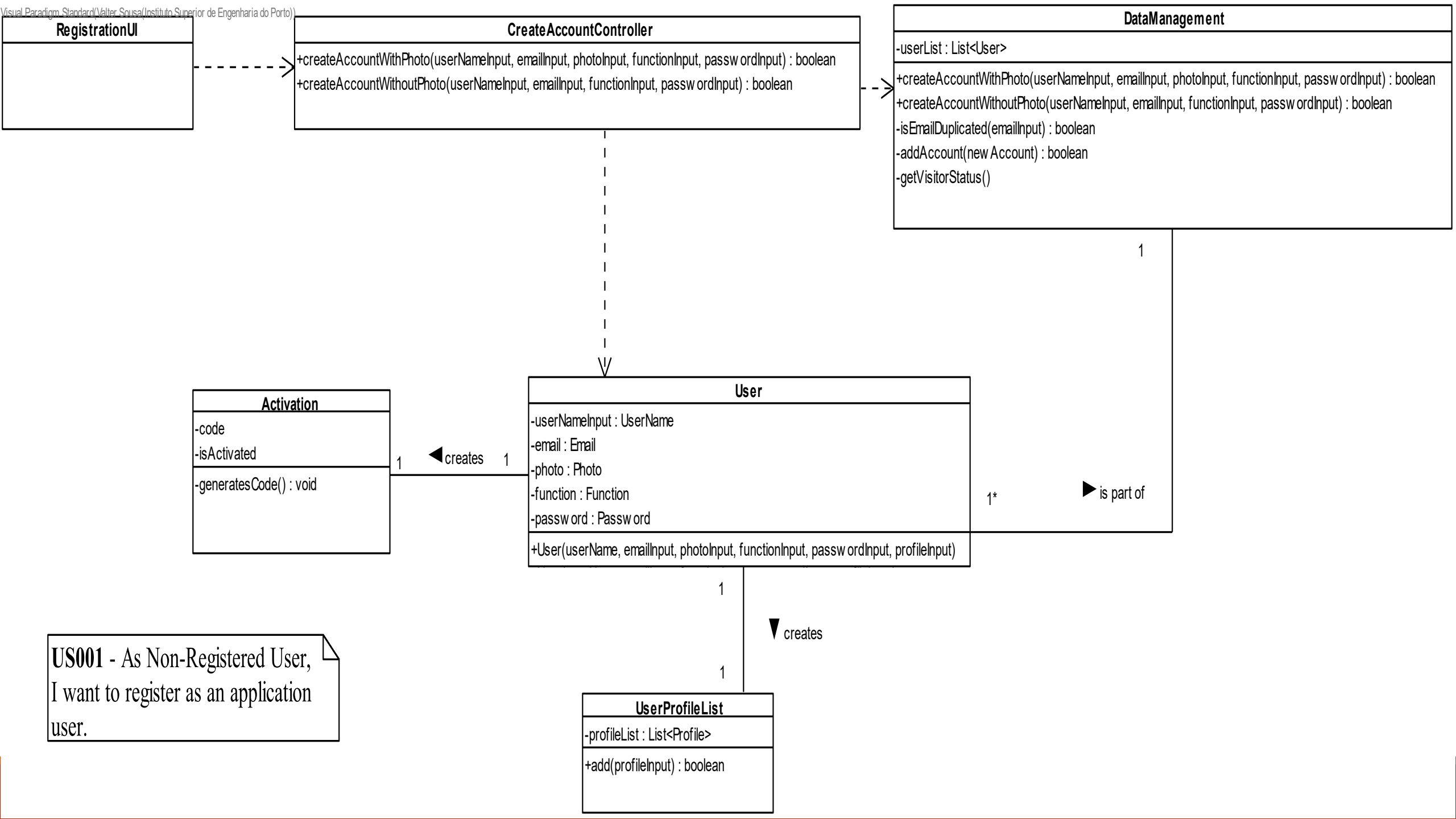
AUTHOR: VALTER SOUSA





want to register as an application user.
(Without Photo)





Unit Tests JUnit

DataManagementTest:

- createAccountWithPhotoUnsuccessfullyDuplicatedEmail()
- createAccountWithPhotoUnsuccessfullyInvalidName()
- accountWithPhotoAddedToUserListSuccessfully()
- createAccountWithPhotoSuccessfully()
- createAccountWithoutPhotoUnsuccessfullyDuplicatedEmail()
- createAccountWithoutPhotoUnsuccessfullyInvalidName()
- accountWithoutPhotoAddedToUserListSuccessfully()
- createAccountWithoutPhotoSuccessfully()

Unit Tests JUnit

As validações dos atributos foram feitas nas suas próprias classes:

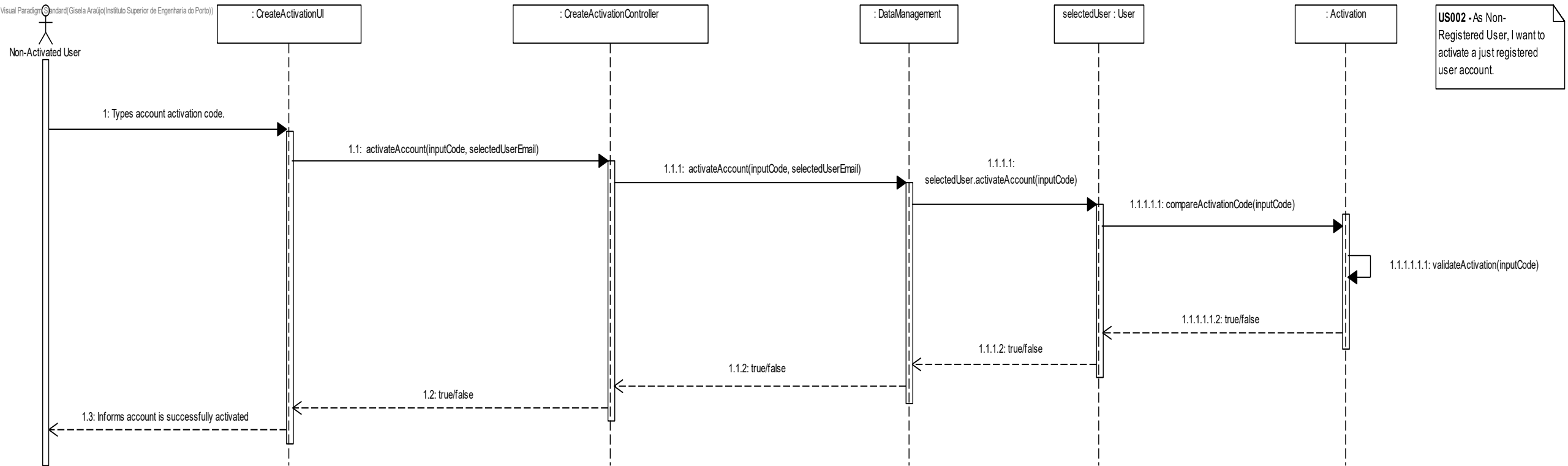
- UsernameTest
- EmailTest
- PhotoTest
- FunctionTest
- PasswordTest

USo2

AS NON-REGISTERED USER, I WANT TO ACTIVATE A JUST REGISTERED USER ACCOUNT.

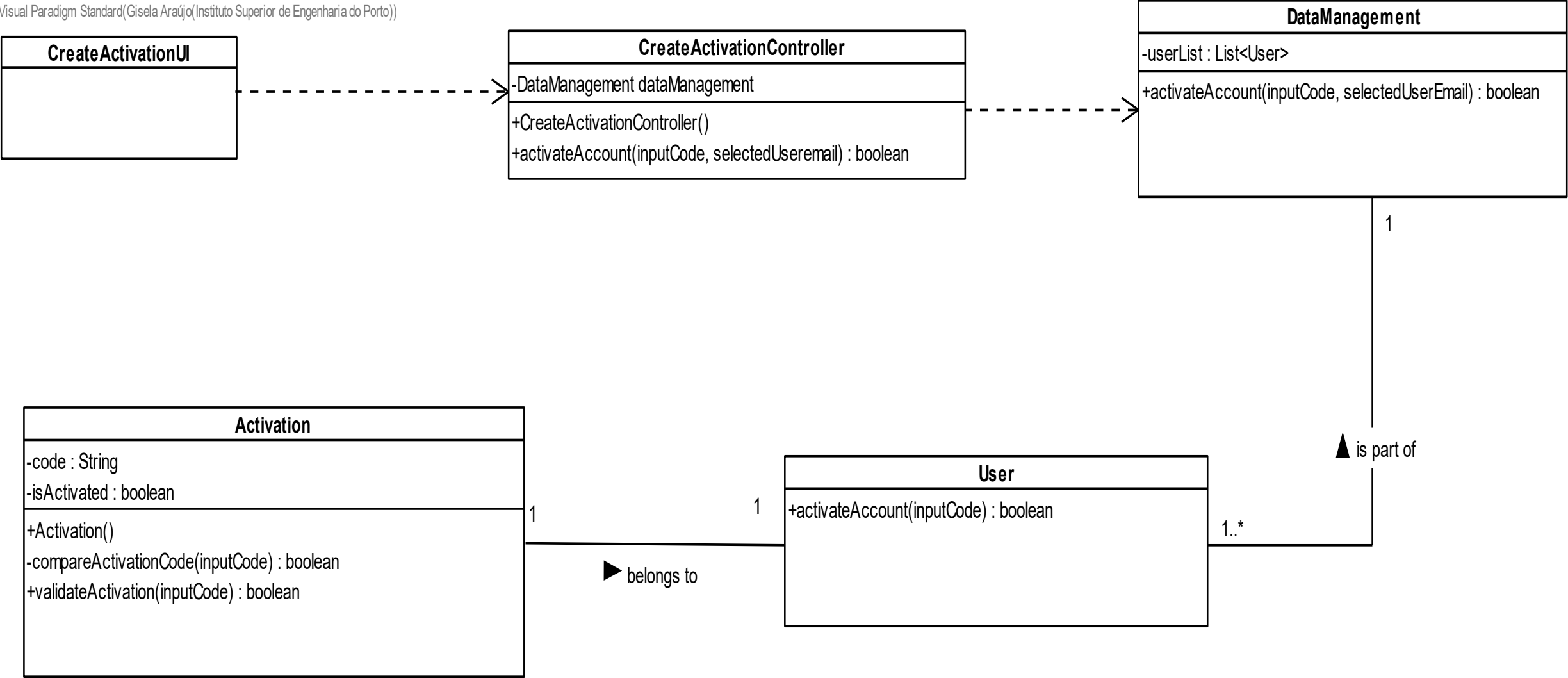
AUTHOR: GISELA ARAÚJO

US 02 - Sequence Diagram



US 02 - Class Diagram

Visual Paradigm Standard(Gisela Araújo(Instituto Superior de Engenharia do Porto))



Unit Tests JUnit

ActivationTest

- validInputCode()
- invalidInputCode()
- inputCodeEmpty()
- inputCodeNull()

CreateActivationControllerTest / DataManagementTest / UserTest

- activateAccount()
- activateAccountIsInvalid()
- activateAccountHasInputCodeEmpty()
- activateAccountHasInputCodeNull()

Line coverage

100%

Mutation coverage

100%

Test strength

100%

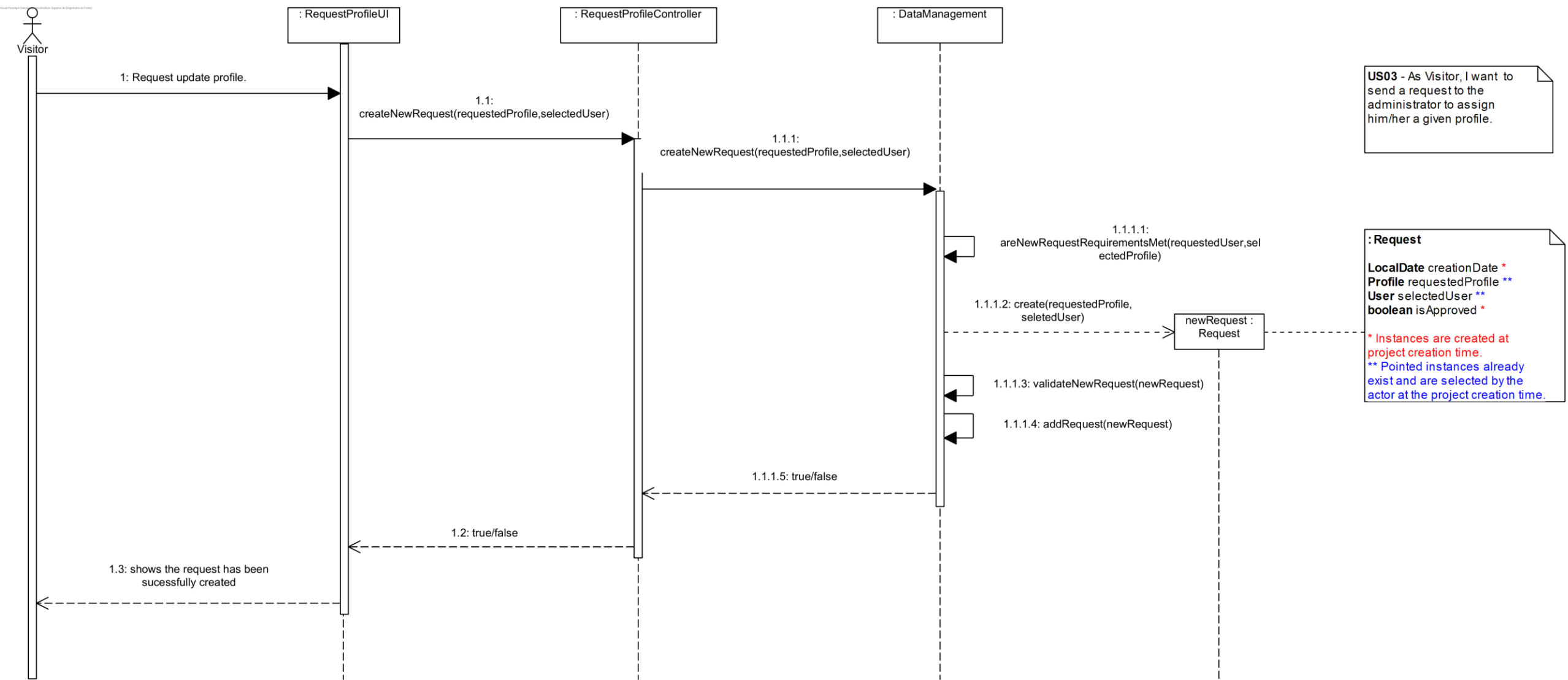
USo3

AS VISITOR, I WANT TO SEND A REQUEST TO THE ADMINISTRATOR TO ASSIGN HIM/HER A GIVEN PROFILE.

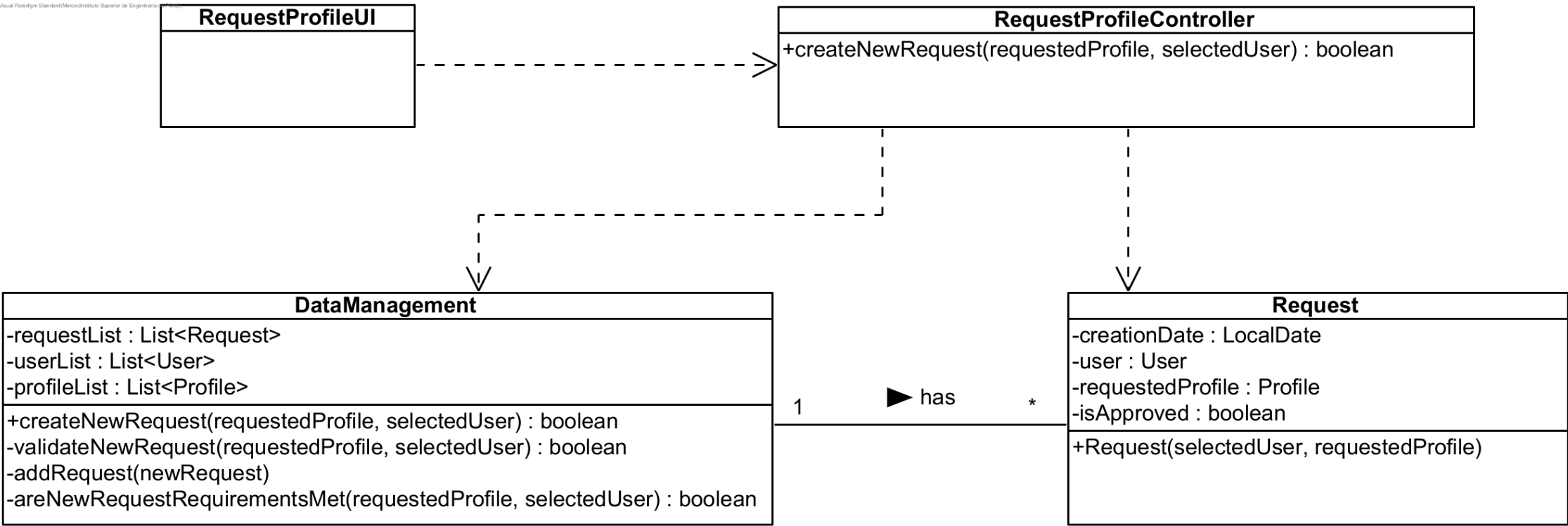
AUTHOR: MÁRCIO CARVALHEIRO



US 03 - Sequence Diagram



US 03 - Class Diagram



Unit Tests JUnit

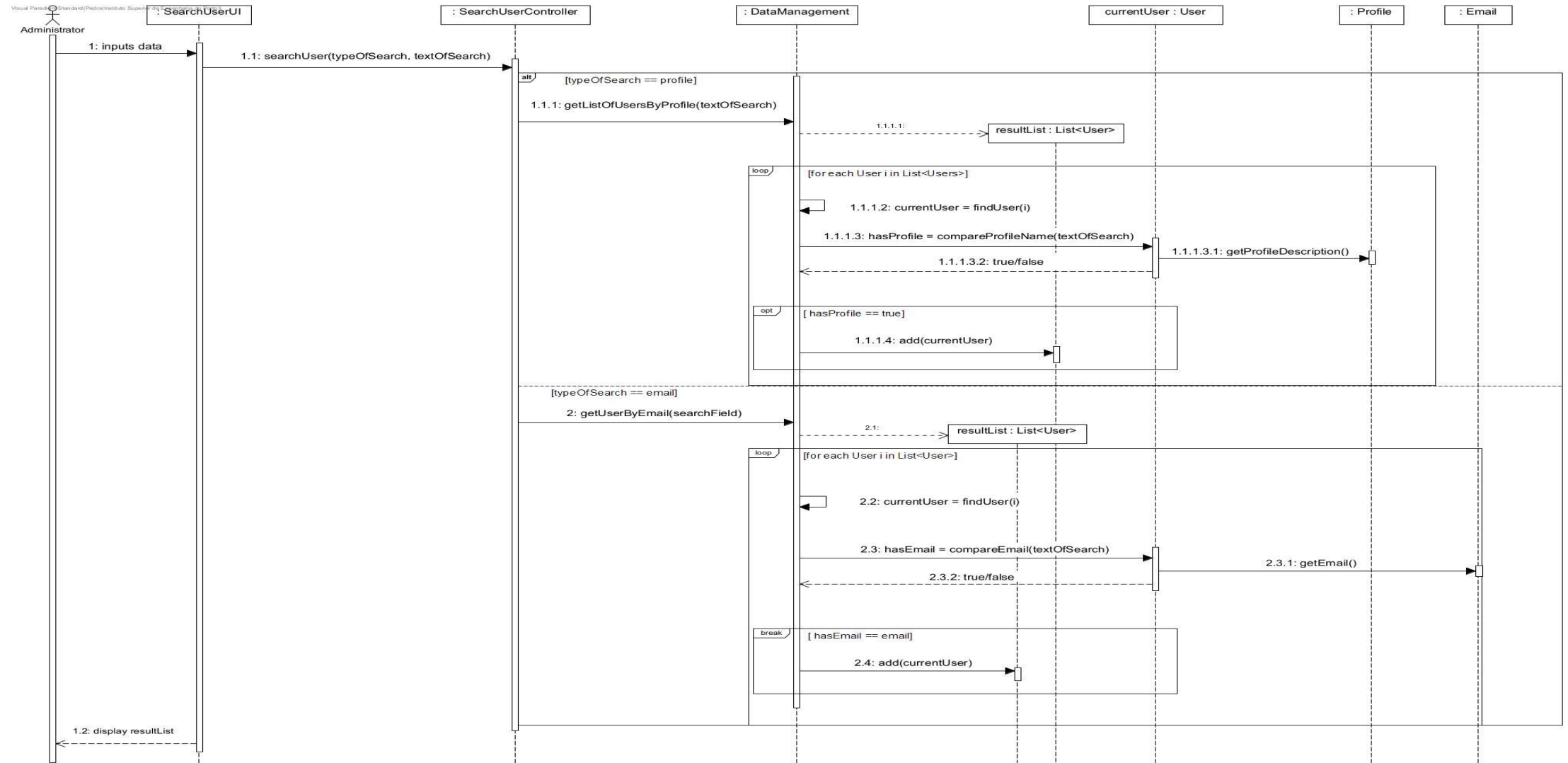
- **Test 1:** create a new Request that doesn't exist in the system, returning true.
- **Test 2:** try creating a duplicated Request, returning false.
- **Test 3:** try requesting a Profile that doesn't exist in the system, returning false.
- **Test 4 :** try creating Request with an User that doesn't exist in the system, returning false.
- **Test 5:** try creating Request with an User that already has the requested profile, returning false.
- **Test 6:** try creating Request with an User that doesn't have the Visitor Profile, returning false.

USo4

AS ADMINISTRATOR, I WANT TO SEARCH FOR USERS.

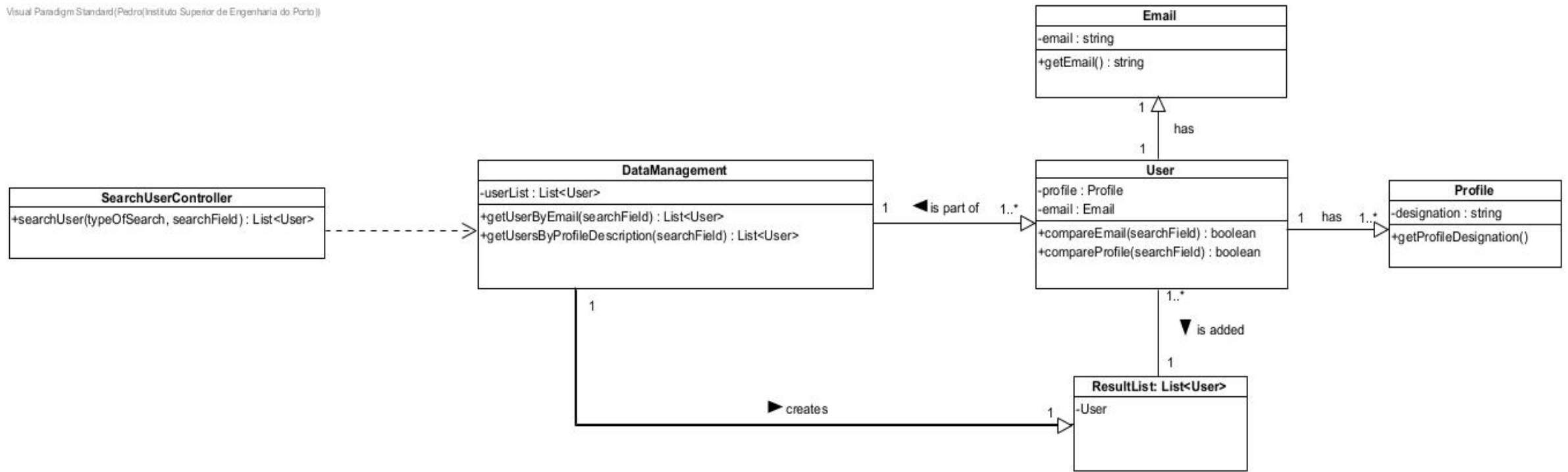
AUTHOR: PEDRO DINIZ

US 04 - Sequence Diagram



US o4 – Class Diagram

Visual Paradigm Standard (Pedro(Instituto Superior de Engenharia do Porto))



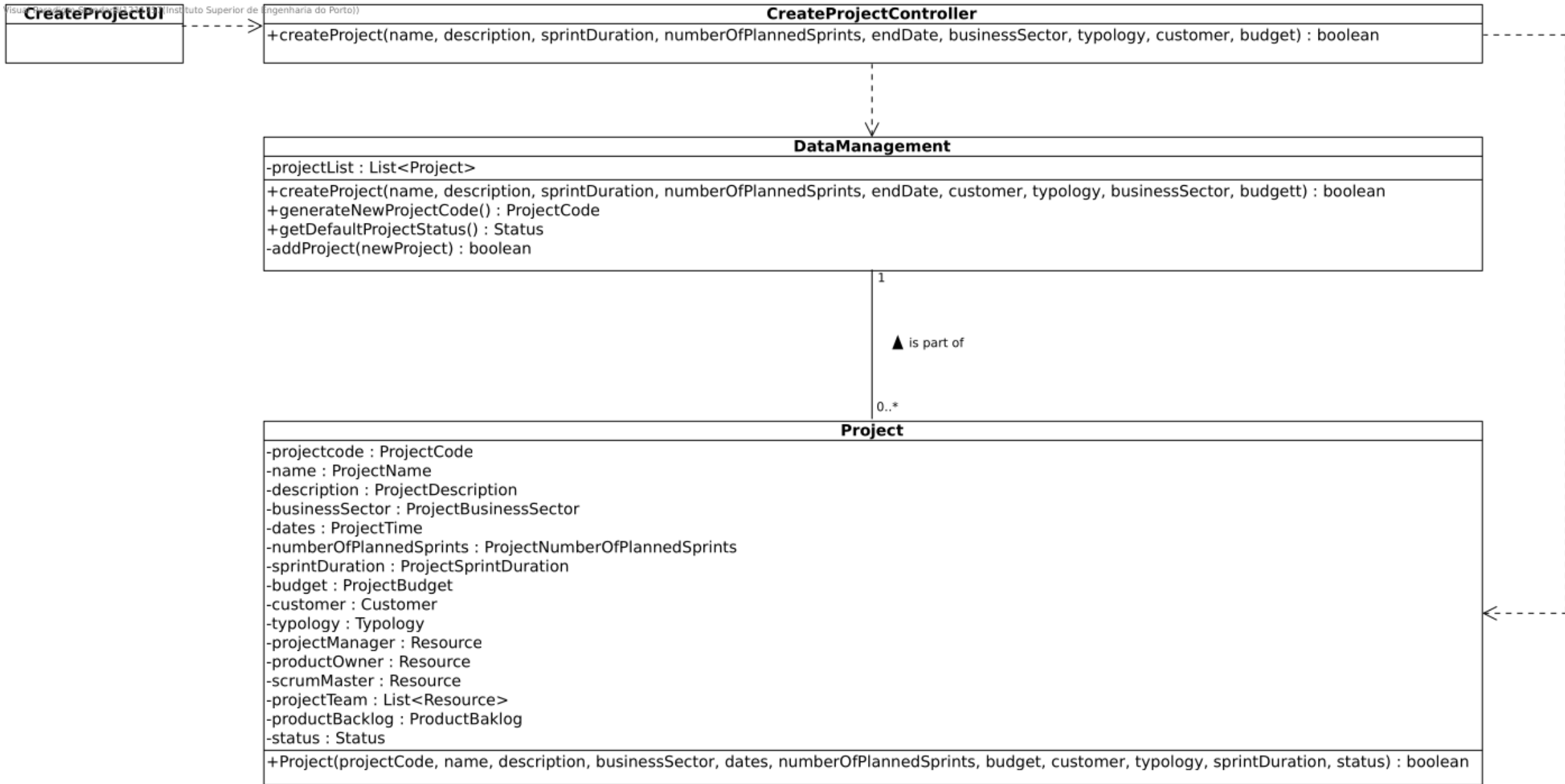
Unit Tests JUnit

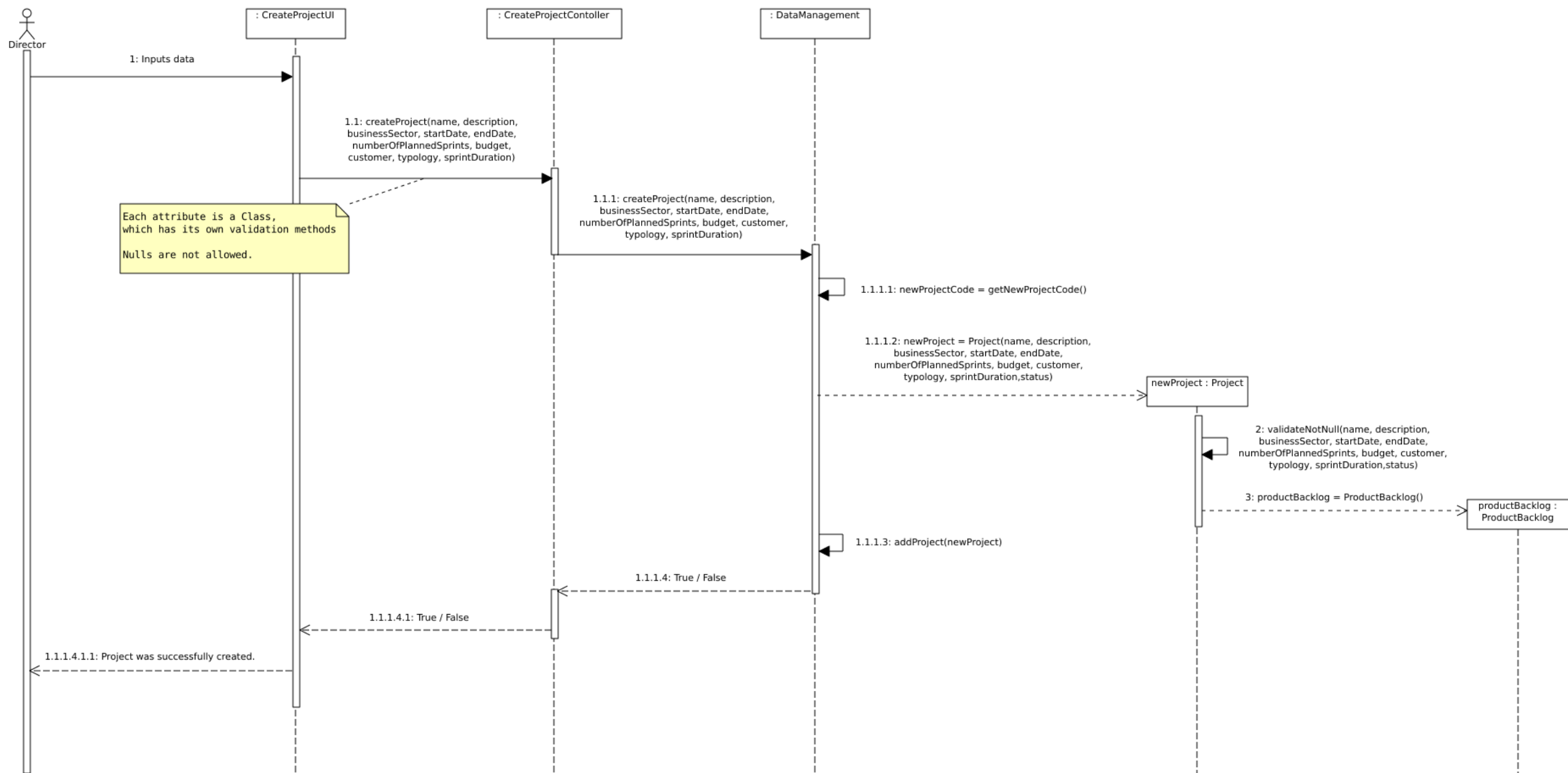
- **Test 1:** search an existing email, returning a list with that user.
- **Test 2:** search by a not existing email, returning an empty list.
- **Test 3:** search by an existing profile, returning a list with those users.
- **Test 4:** search by a not existing profile, returning an empty list.
- **Test 5:** inserting a random type of search and returning an empty list.

USo5

AS DIRECTOR, I WANT TO REGISTER/CREATE A NEW PROJECT.

AUTHOR: DANIEL DOS SANTOS TORRES





Unit Tests JUnit

ProjectTest

ProjectBudgetTest

ProjectBusinessSectorTest

ProjectCodeTest

ProjectDescriptionTest

ProjectNumberOfPlannedSprintsTest

ProjectTimeTest

StatusTest

TypologyTest

DataManagementTest

- generatedProjectCodeExpectedForFirstProjectThisYearIsRight()
- generatedProjectCodeExpectedForSecondProjectThisYearIsRight()
- projectCreationFailsBecauseNullInputs()
- projectCreationIsSuccessful()
- secondProjectIsSuccessfullyCreated()

CreateProjectControllerTest

- projectCreationIsSuccessful()
- projectCreationFailsBecauseNullEntryInstance()

Line coverage
100%

Mutation coverage
100%

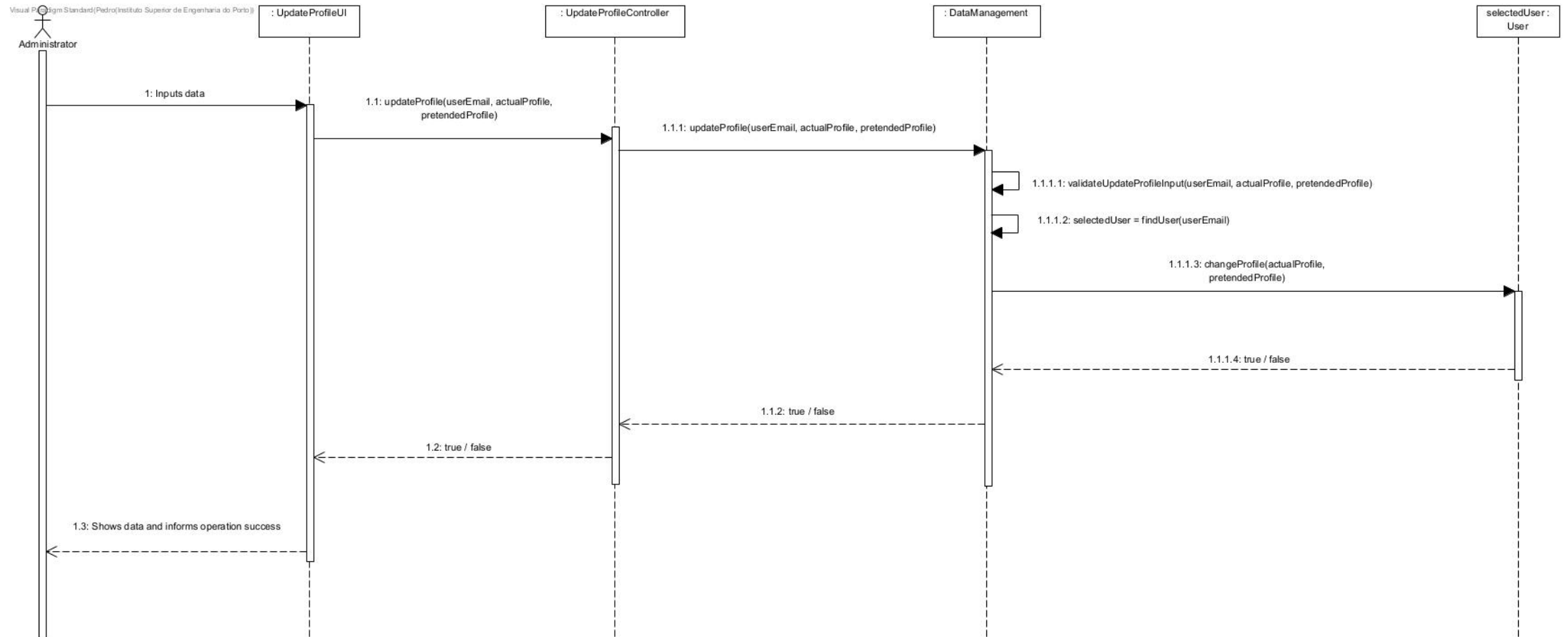
Test strength
100%

USo6

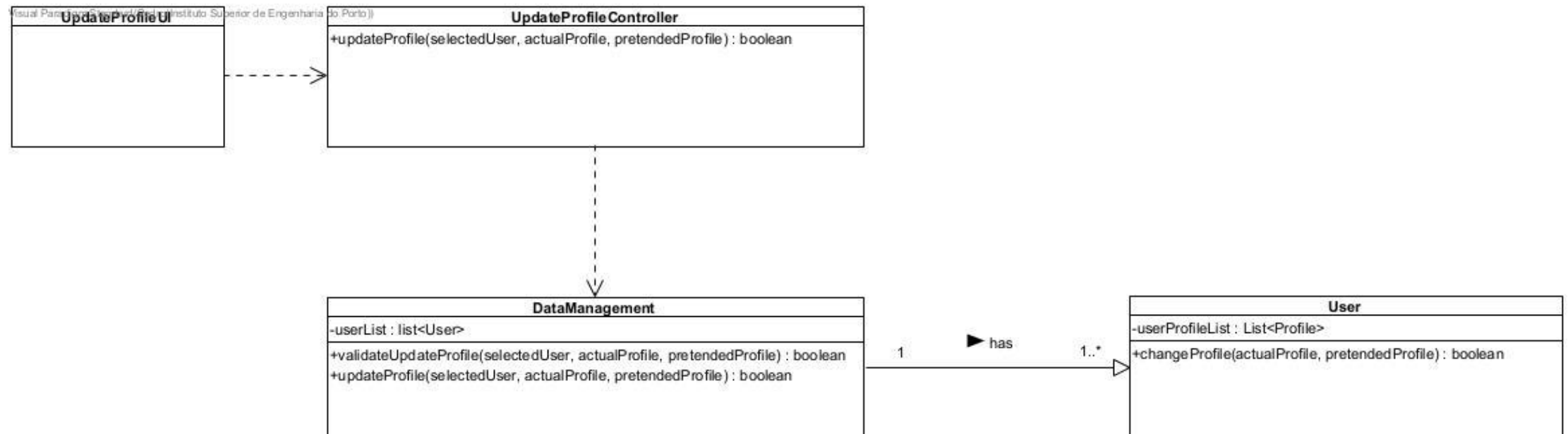
AS ADMINISTRATOR, I WANT TO UPDATE PROFILES ASSIGNED TO A USER ACCOUNT.

AUTHOR: PEDRO DINIZ

US o6 – Sequence Diagram



US o6 – Class Diagram



Unit Tests JUnit

Test 1: sucesfully updating a user's profile for a new one.

Test 2: fail to update a user's profile when user's e-mail does not exist.

Test 3: fail to update a user's profile when the user does not have the selected profile.

Test 4: fail to update a user's profile when the pretended profile does not exist.

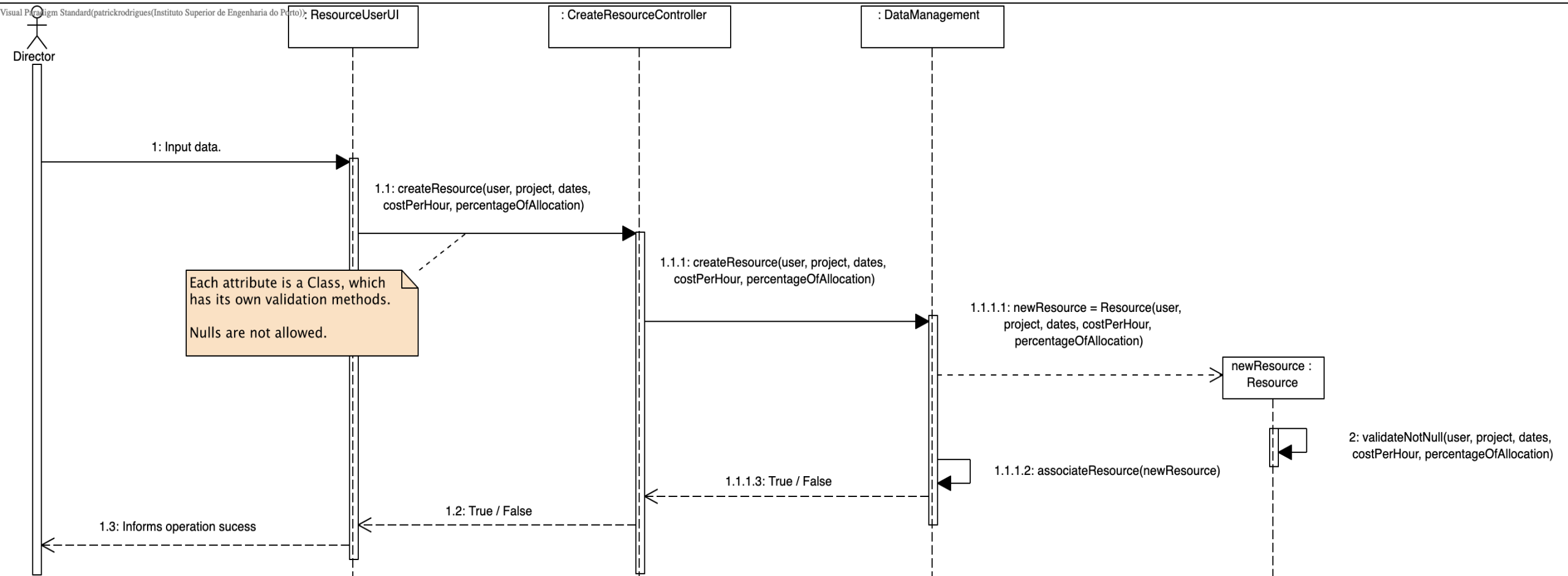
USo7

AS DIRECTOR, I WANT TO ASSOCIATE A HUMAN RESOURCE (USER) TO A PROJECT.

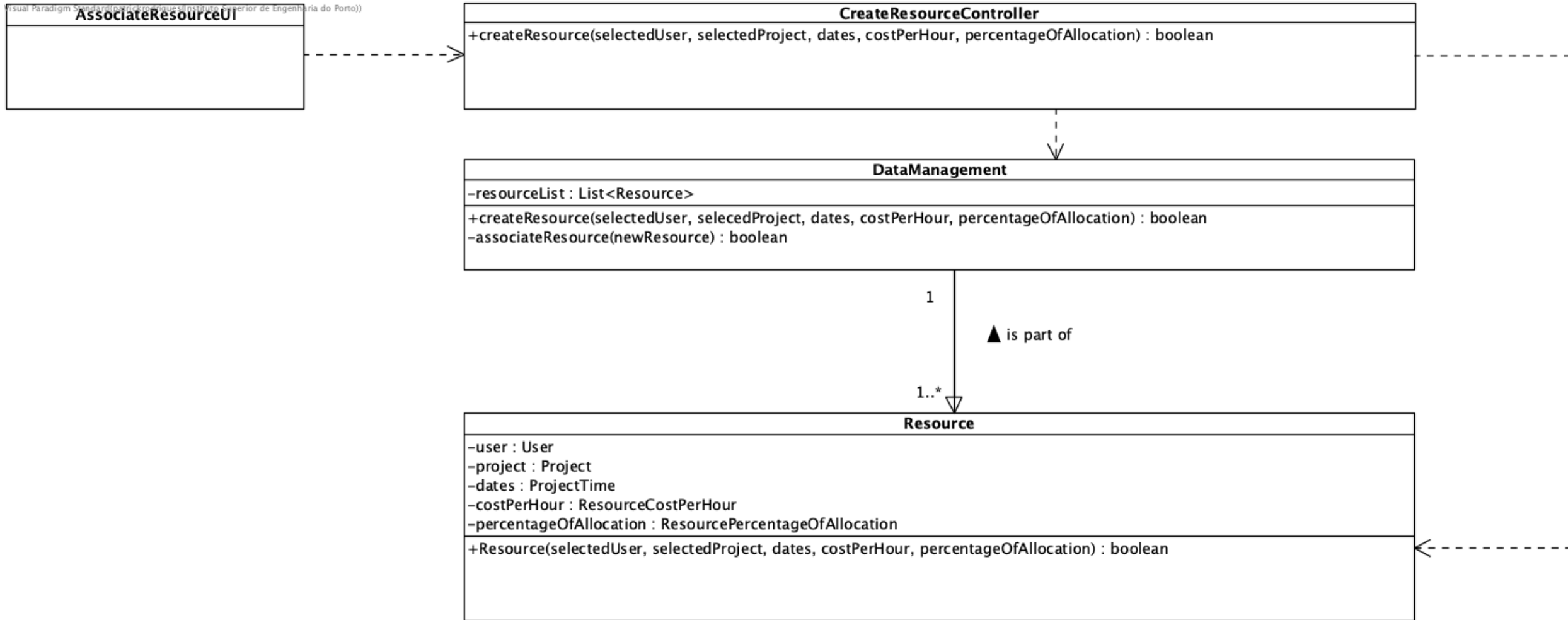
AUTHOR: PATRICK RODRIGUES



US 07 – Sequence Diagram



US 07 – Class Diagram



Unit Tests JUnit

ResourceCostPerHourTest

ResourcePercentageOfAllocationTest

ProjectTest

UserTest

ProjectTimeTest

DataManagementTest

- resourceIsSuccessfullyCreated()
- resourceFailsBecauseNullInput()

CreateResourceControllerTest

- createResource()

USo8

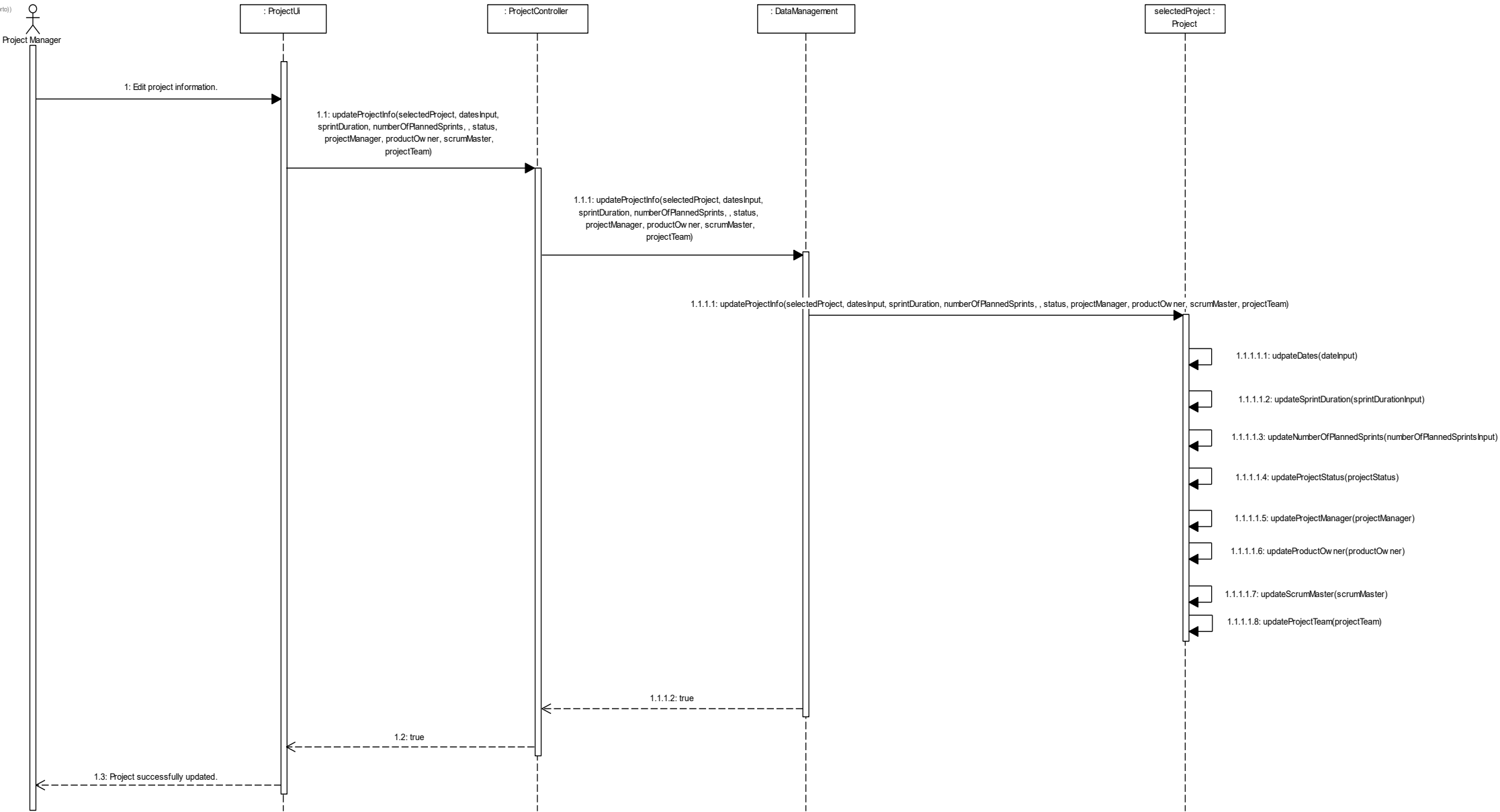
AS PROJECT MANAGER, I WANT TO EDIT SOME PROJECT INFORMATION.

AUTHOR: MAURÍCIO PINTO BARROS

Us008 – Sequence Diagram

Visual Paradigm Standard(MauravIlhoso(Instituto Superior de Engenharia do Porto))

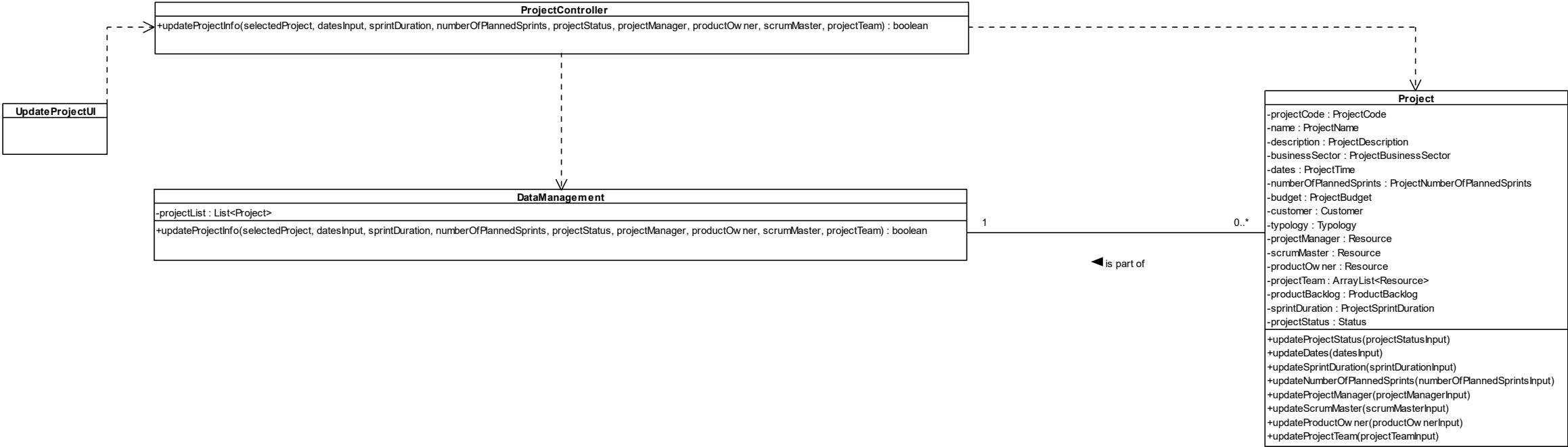
US008 - As Project Manager, I want to edit some project information.



US008- Class Diagram

Class Diagram US008

As Project Manager, I want to edit some project information.



Unit Tests JUnit

DataManagementTest

- updateProjectInfoTest
- UpdateProjectInfoFailsBecauseNull

ProjectTimeTest

ProjectSprintDurationTest

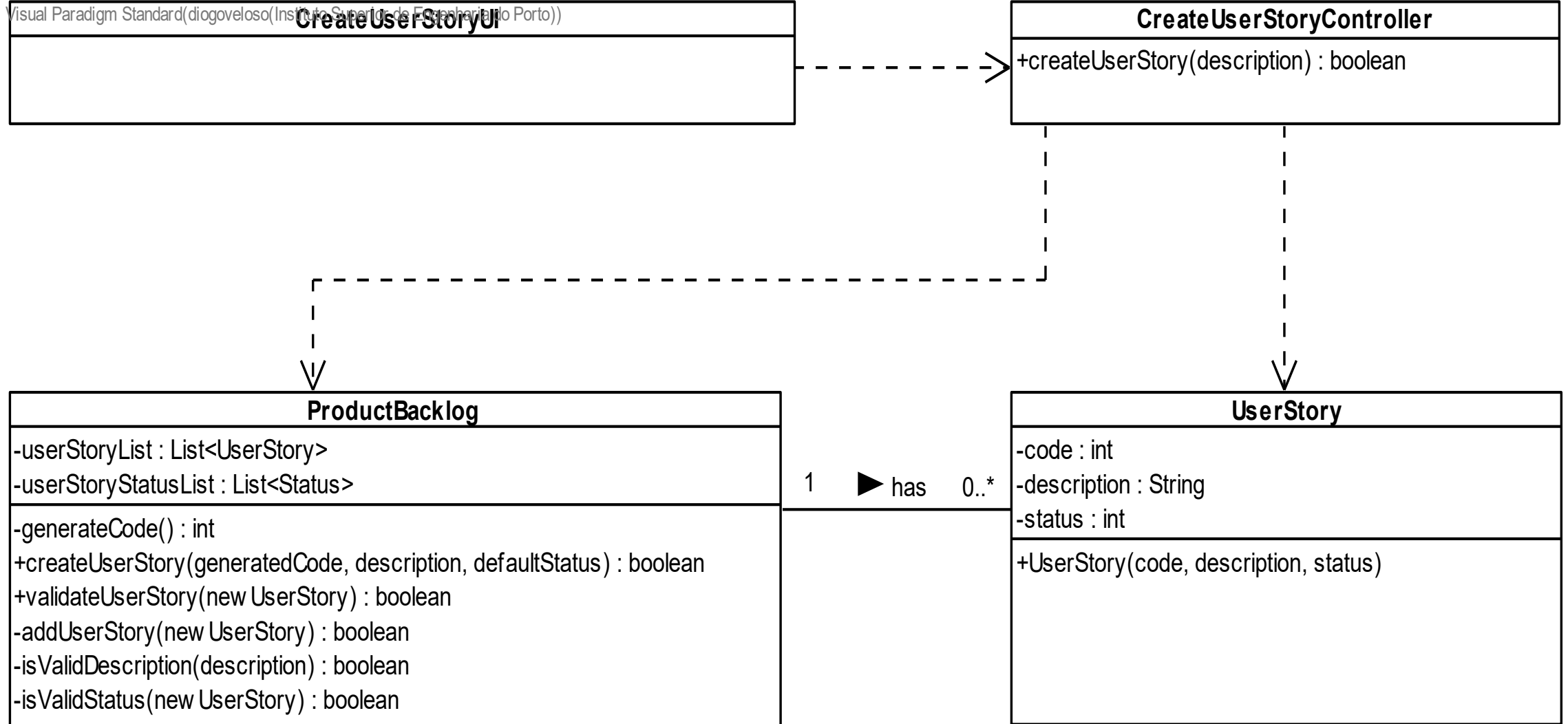
ProjectNumberOfPlannedSprintsTest

USog

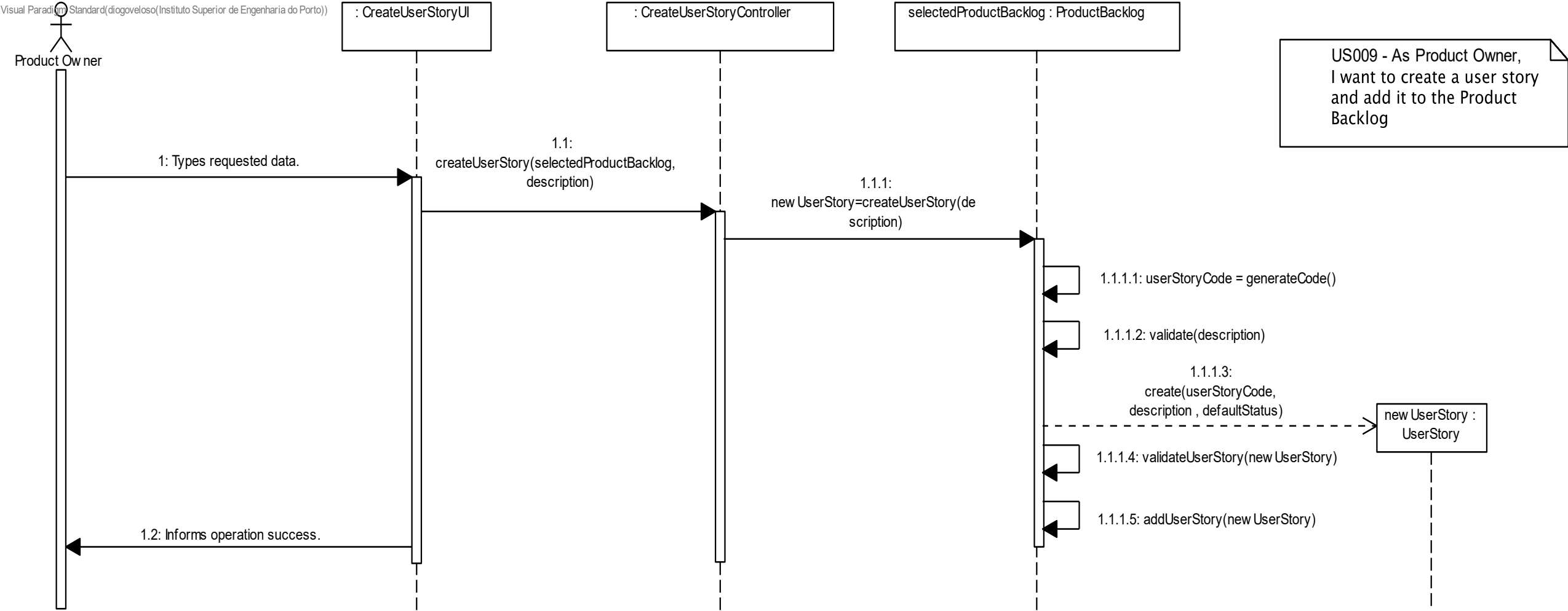
AS PRODUCT OWNER, I WANT TO CREATE A USER STORY AND ADD IT TO THE PRODUCT BACKLOG.

AUTHOR: DIOGO VELOSO

US 09 – Class Diagram



US 07 – Sequence Diagram



Unit Tests JUnit

UserStoryTest

- Test1 : testUserStoryConstructorTrue()

ProdcyBacklogTest

- Test1 : createDifferentProductBacklog()
- Test2 : createDifferentUserStoryInSameProductBacklogTrue()
- Test3 : invalidDescriptionLargerThanOneHundredAndFifty()
- Test4: invalidDescriptionSmallerThanOne()
- Test5 : validDescription

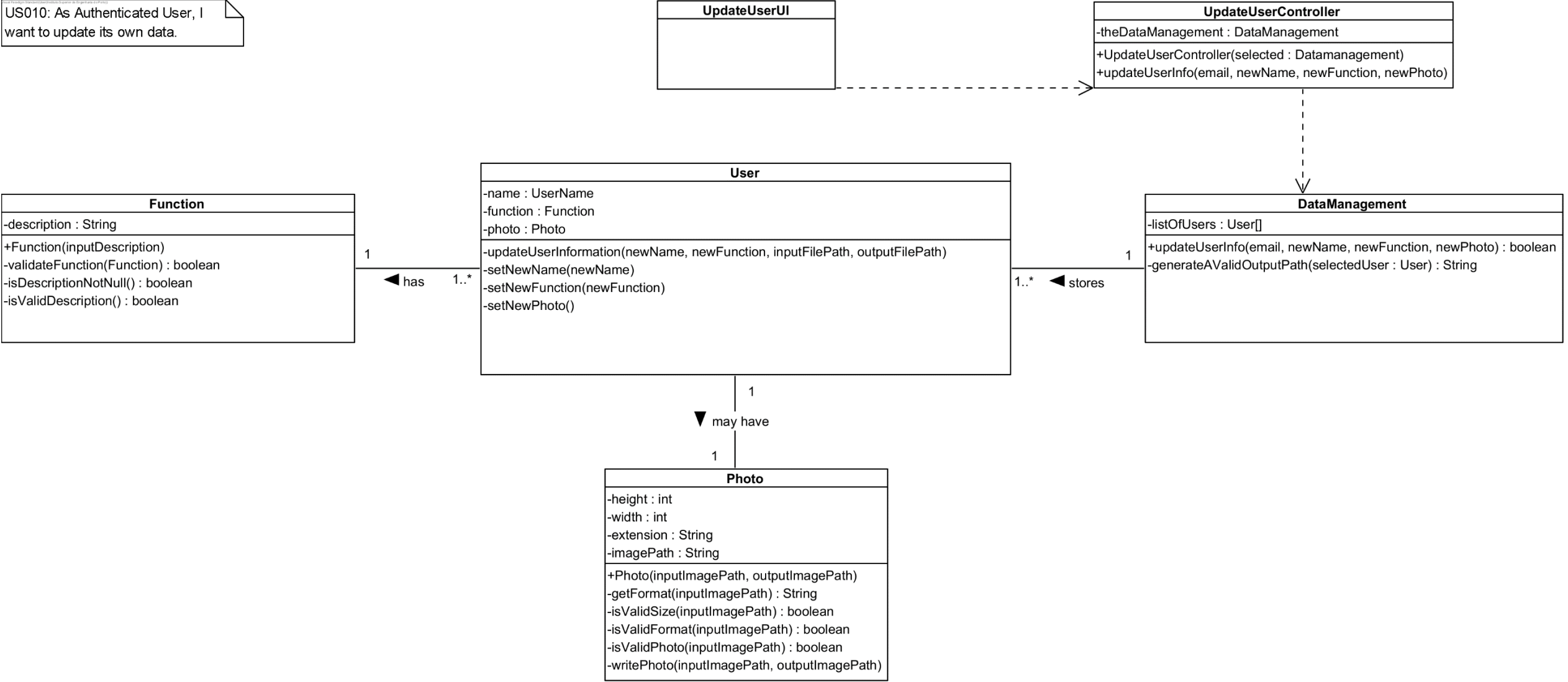
US10

AS AUTHENTICATED USER, I WANT TO UPDATE ITS OWN DATA (E.G., PHOTO, FUNCTION).

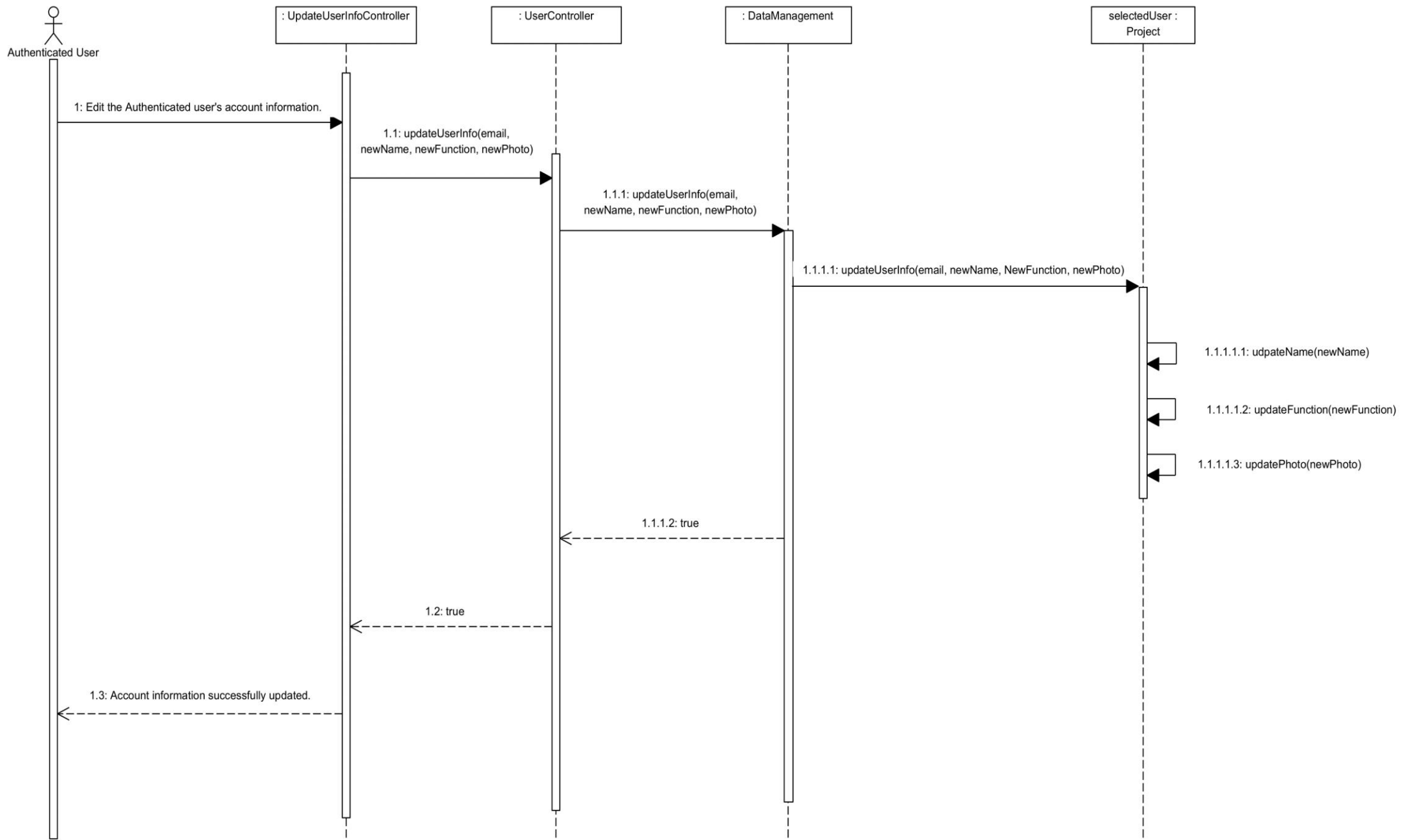
AUTHOR: TIAGO MACHADO



US010: As Authenticated User, I want to update its own data.



US010 - As Authenticated User, I want to update its own data (e.g., photo, function)



Código/Testes Realizados

Photo class:

Tested validation for:

- Photo height (between 0 and 300 pixels);
- Photo width (between 0 and 300 pixels);
- Photo extension (either .png or .jpg);
- Photo path (validates that the photo exists locally);
- All parameters cannot be null;

Function class:

Tested validation for:

- Function description must be a not null String;
- Function description must be between 1 and 15 characters;

Código/Testes Realizados

User class:

Tested the updateUserInfo method with valid parameters and invalid parameters, all working as expected.

DataManagement class:

Tested:

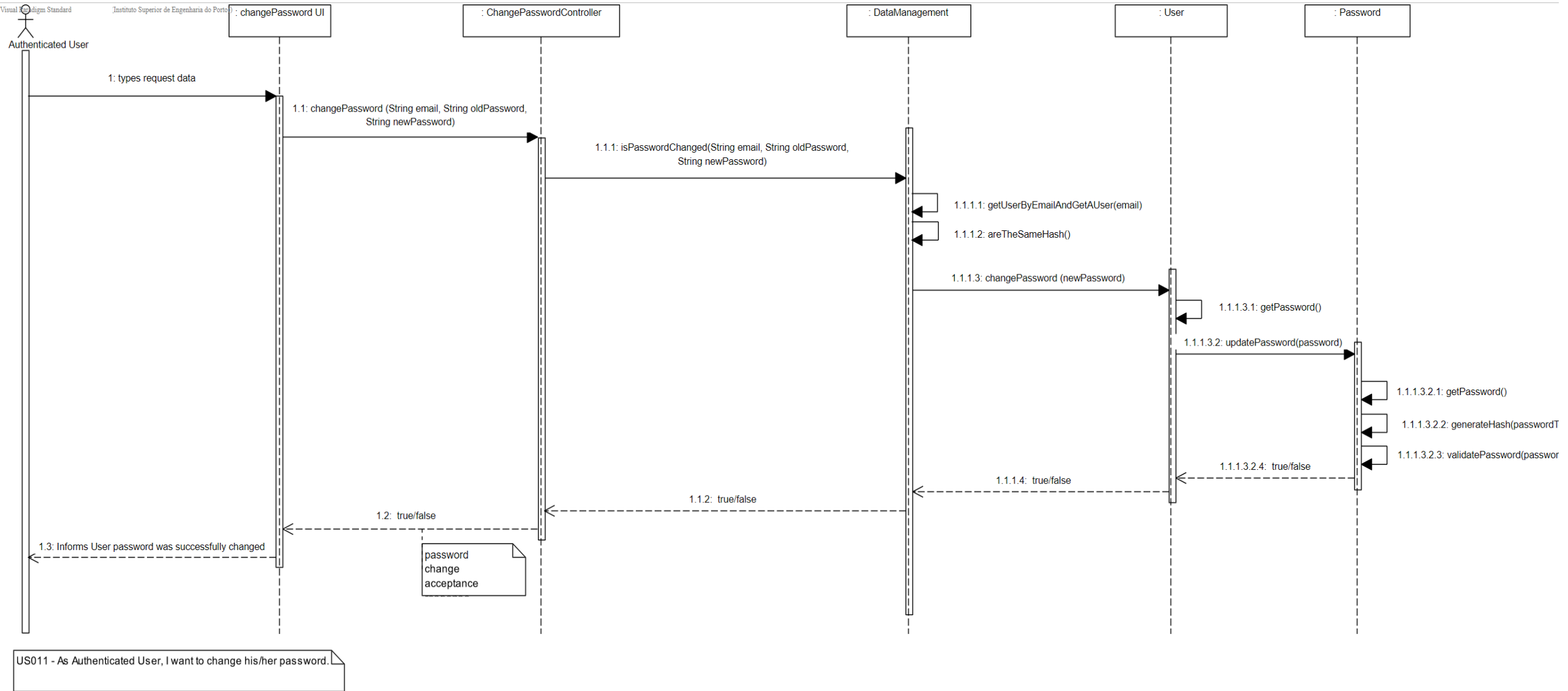
- the creation of a valid and unique path for each user's Photo;
- the existence of the email provided;

US11

AS AUTHENTICATED USER, I WANT TO CHANGE HIS/HER PASSWORD.

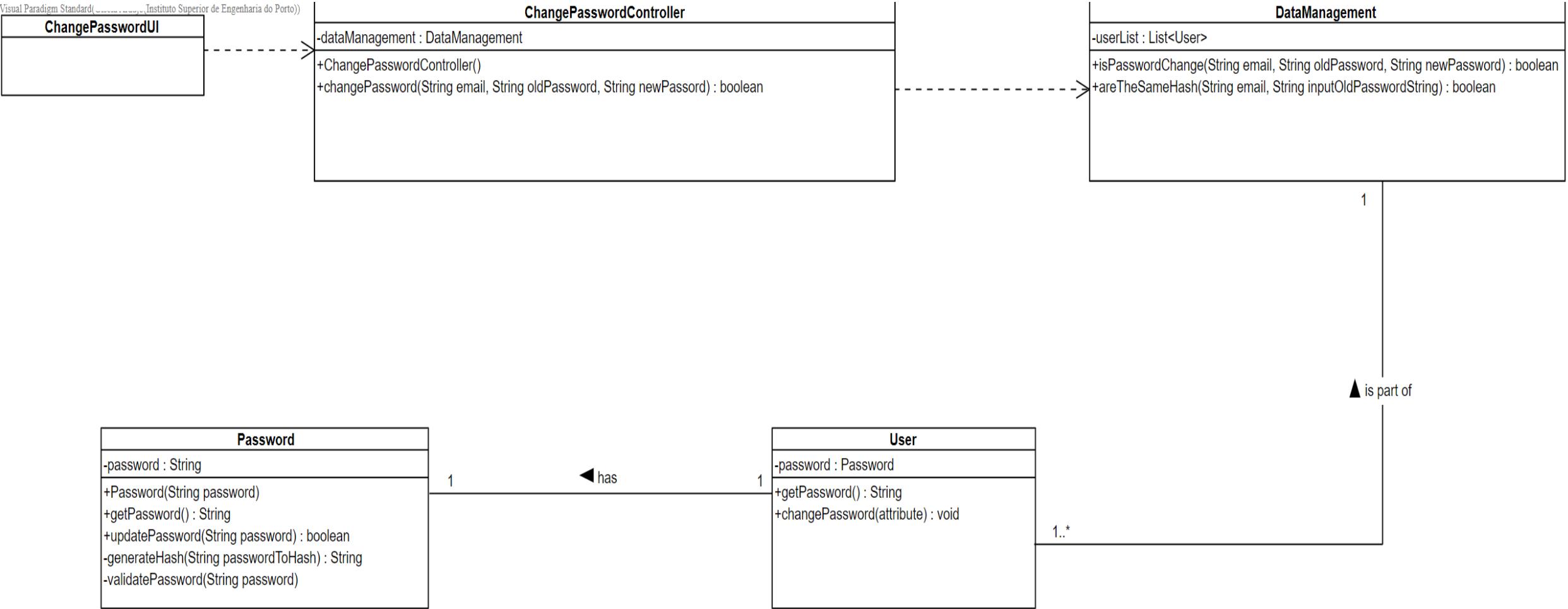
AUTHOR: TÂNIA MOTA

US 011 – Sequence Diagram



US 011 – Class Diagram

Visual Paradigm Standard (....., Instituto Superior de Engenharia do Porto)



Unit Tests JUnit

UserTest

- testGetPassword()

PasswordTest

- testPasswordTooShort()
- testPasswordTooLong()
- testEmptyPassword()
- testNullPassword()
- testValidPassword()
- testGetPassword()
- testInvalidPasswordException()

DataManagementTest

- testChangePassword()
- testEmptyPasswordNotChanged()
- testNullPasswordNotChanged()

ChangePasswordController

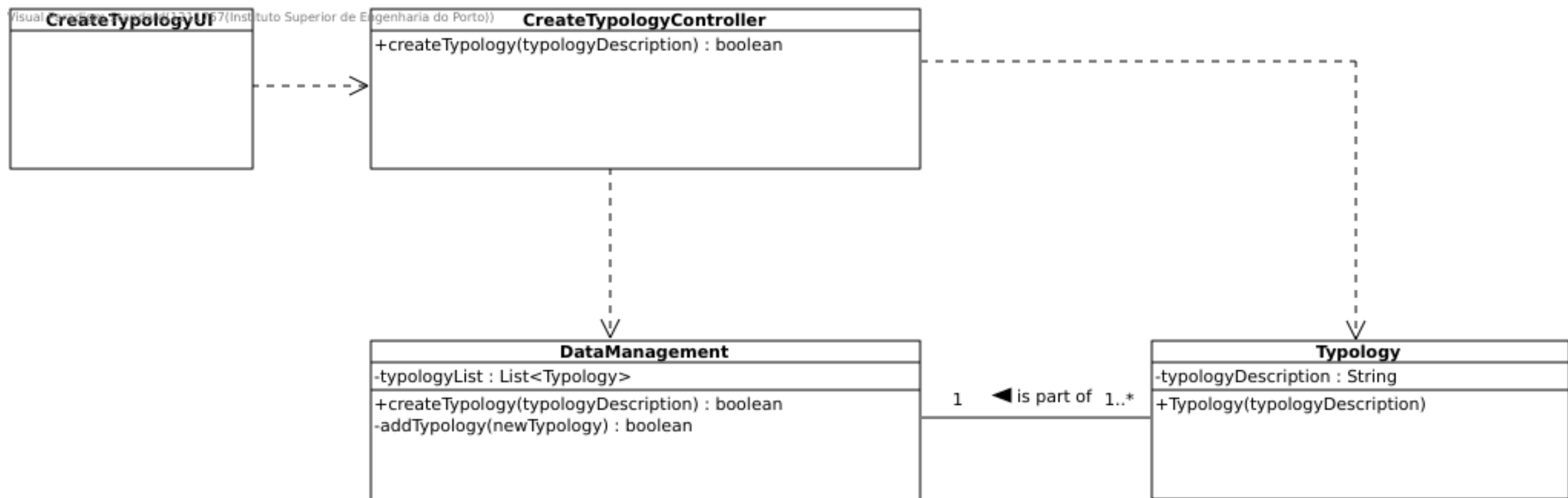
- testChangePassword()

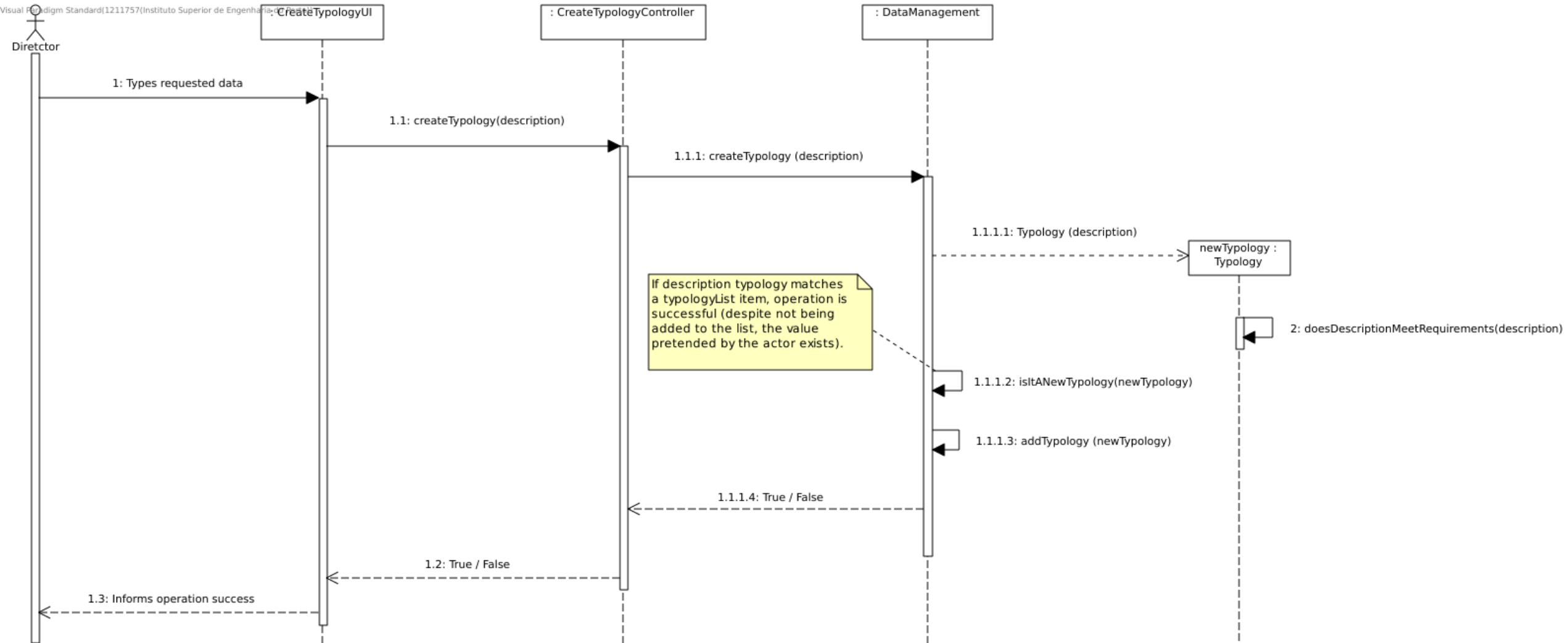
US12

AS DIRECTOR, I WANT TO CREATE A NEW PROJECT TYPOLOGY.

AUTHOR: DANIEL DOS SANTOS TORRES







Unit Te

TypologyTests

- `typologyInputContainsInvalidCharacters()`
- `typologyInputIsNotValidAboveUpperLimit()`

Line coverage

100%

Mutation coverage

100%

Test strength

100%

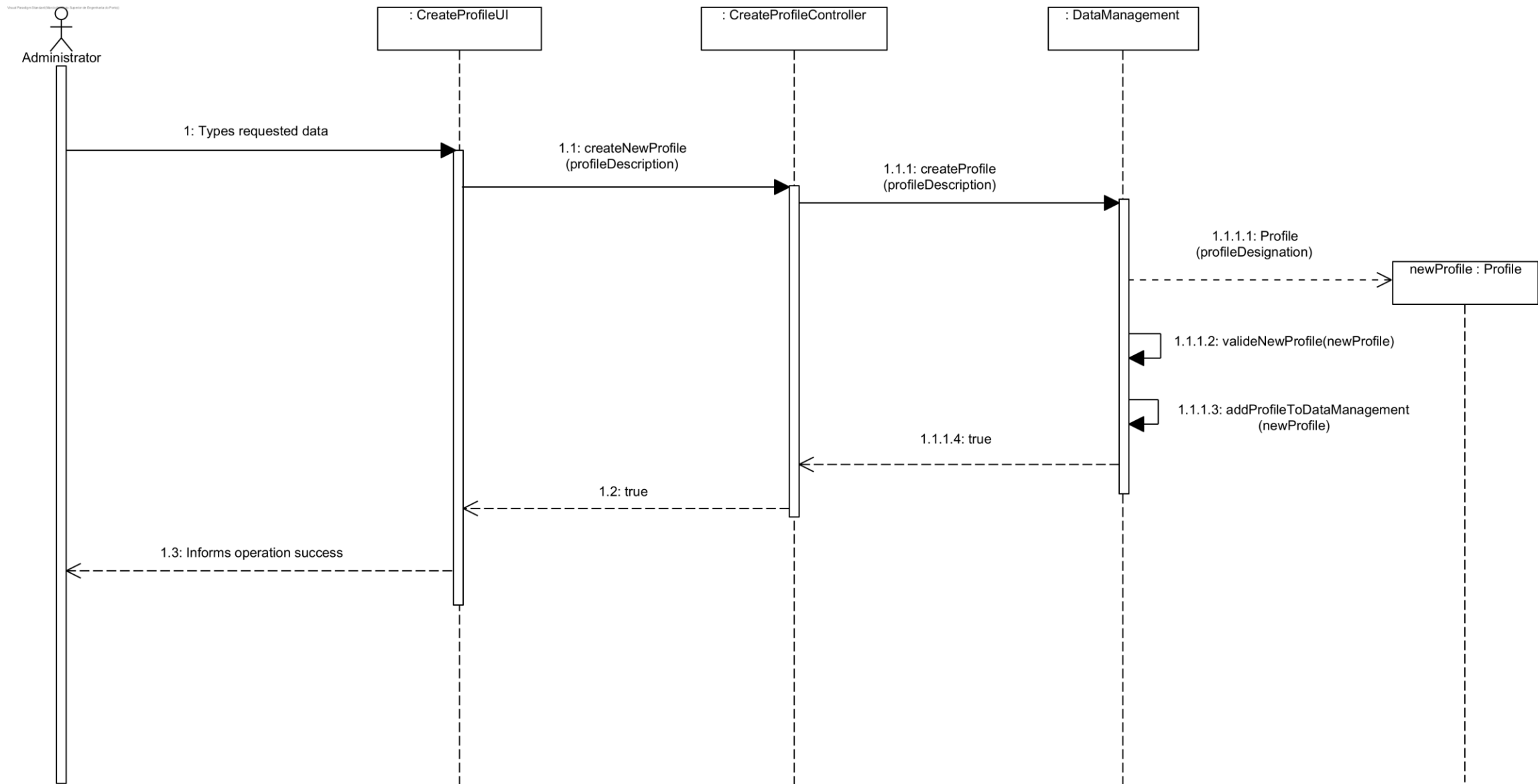
US13

AS ADMINISTRATOR, I WANT TO CREATE USER PROFILES.

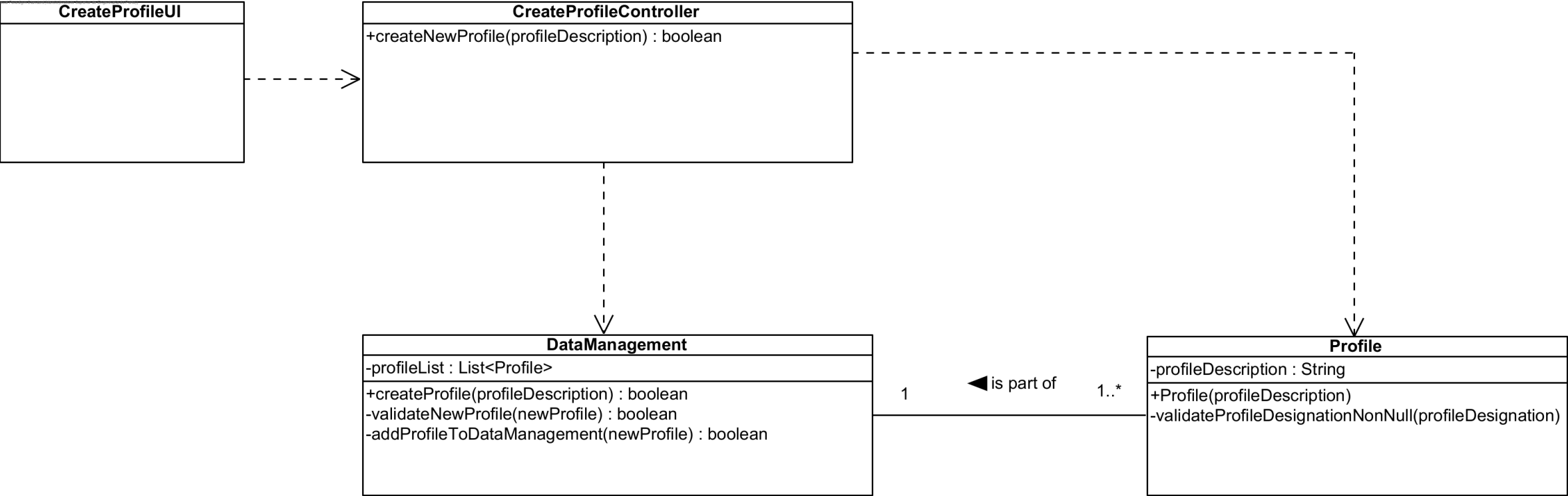
AUTHOR: MÁRCIO CARVALHEIRO



US 13 - Sequence Diagram



US 13 - Class Diagram



Unit Tests JUnit

- **Test 1:** create a new Profile that doesn't exist in the system, returning true.
- **Test 2:** try creating a duplicated Profile in the system, returning false.

Retrospective

- Easy communication between team members;
- Focus on goals and results;
- Everyone contributes their fair share;
- Offer each other support;
- Organized;
- And we have fun while working;
- **Difficulties:** covid-19 and working online, problems with git while working simultaneously online.