



PROJECT

2º Sprint Review

Turma B - Grupo 5

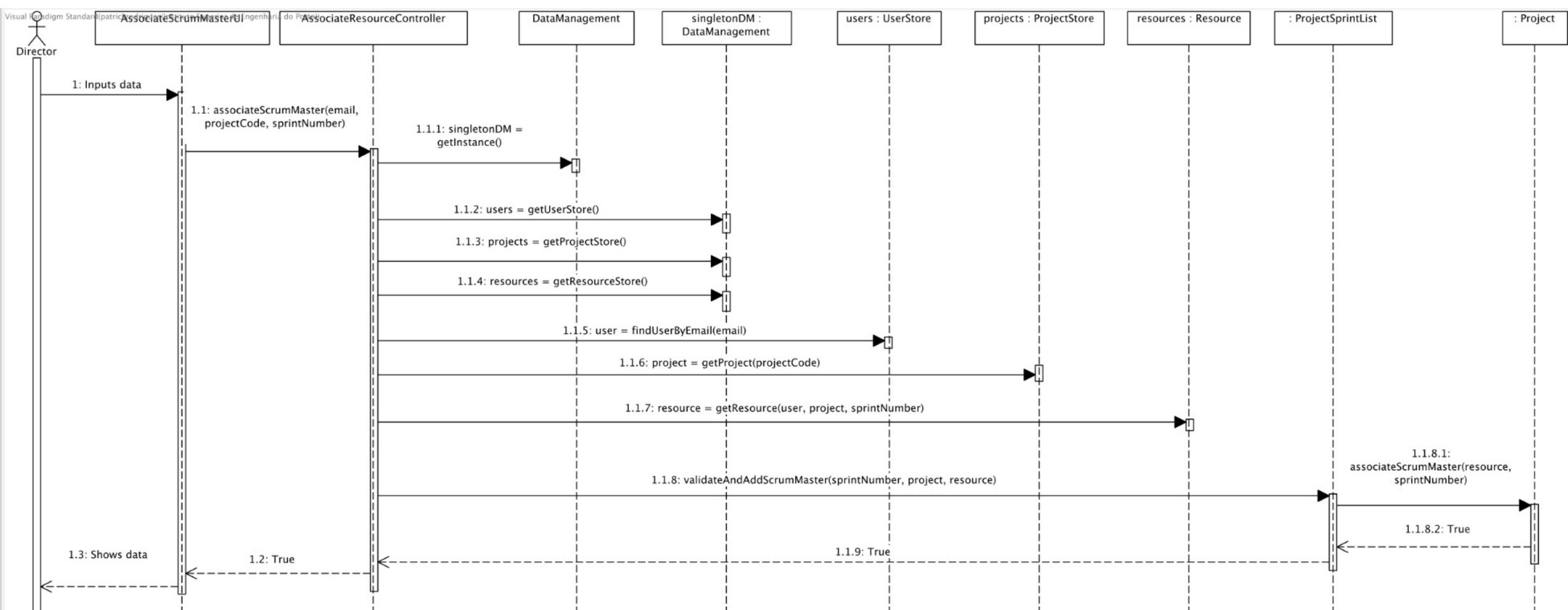
1170053 – Pedro Diniz
1211757 – Daniel Torres
1211759 – Diogo Veloso
1211765 – Gisela Araújo
1211779 – Márcio Carvalheiro
1211785 – Maurício Barros
1211788 – Patrick Rodrigues
1211797 – Tânia Mota
1211799 – Tiago Machado
1211801 – Valter Sousa

US14

AS DIRECTOR, I WANT TO DEFINE THE SM OF A PROJECT

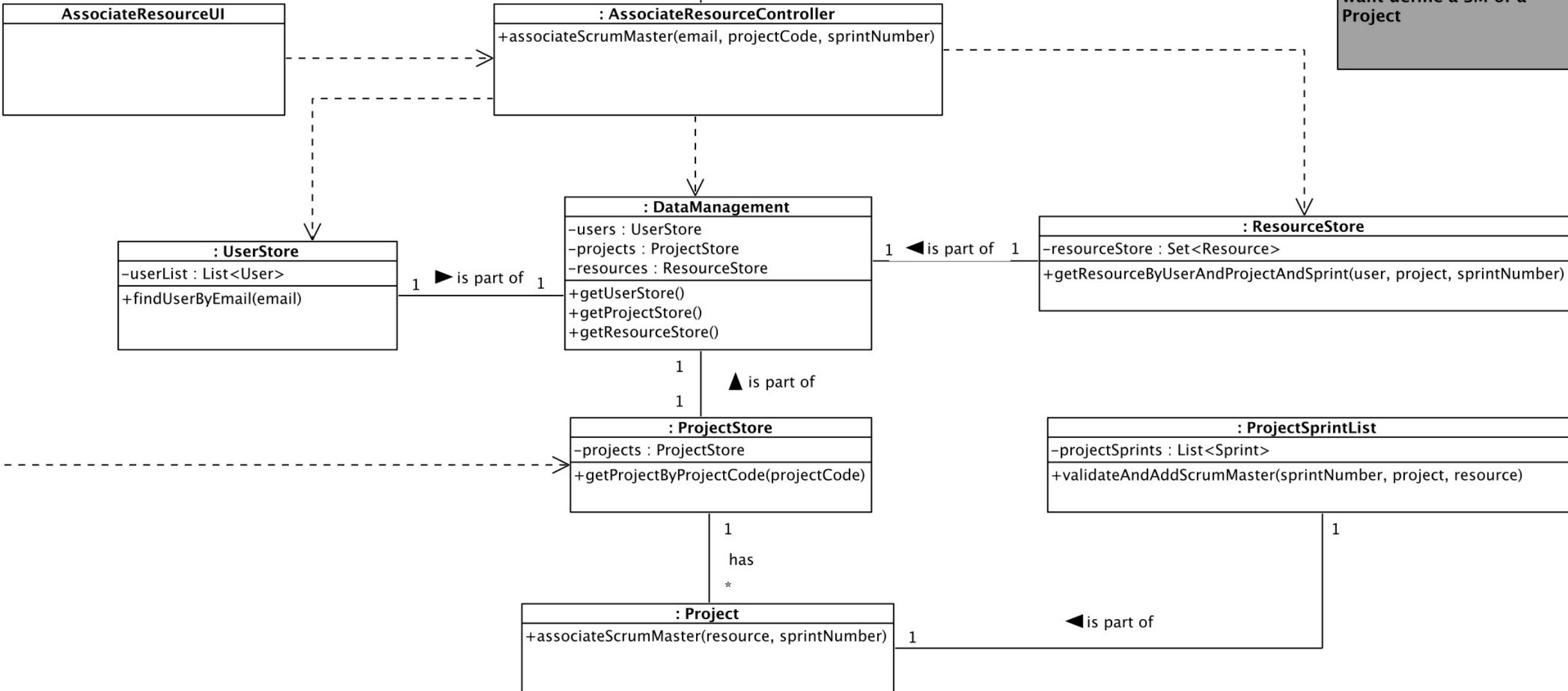
AUTHOR: PATRICK RODRIGUES 1211788

US 14 – Sequence Diagram



US 14 – Class Diagram

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



Unit Tests JUnit

Test 1: scrumMasterOfProjectSuccessfullyDefined() – *Scrum Master is successfull defined.*

Test 2: associateScrumMasterFailsEmail() – Defined Scrum Master of a project fails because input Email.

Test 3: associateScrumMasterFailsSprintNumberAreIncorrect() - Defined Scrum Master of a project fails because sprint number are incorrect.

Test 4: associateScrumMasterFailsBecauseANegativeSprintNumber() - Defined Scrum Master of a project fails because sprint number are negative.

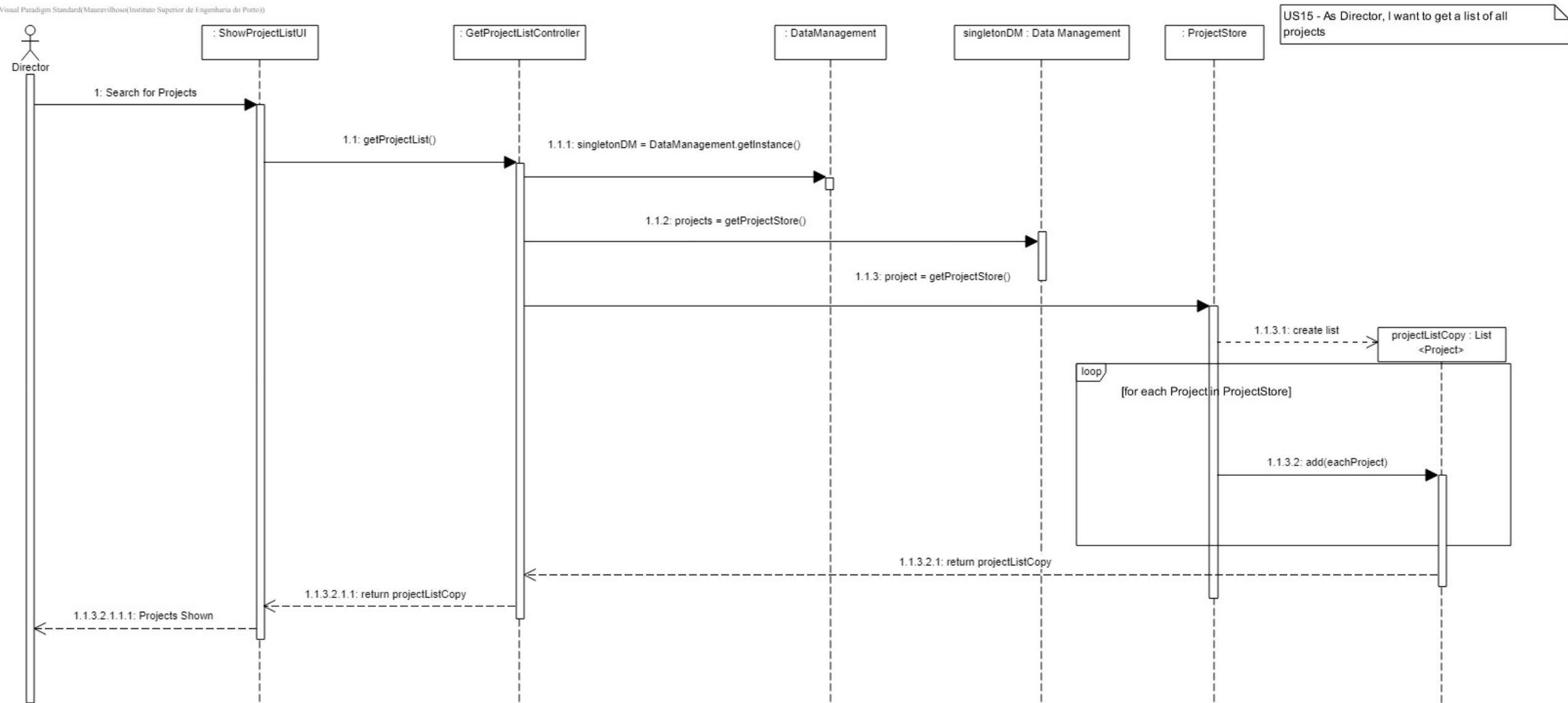
Test 5: associateScrumMasterFailsCode() - Defined Scrum Master of a project fails because incorrect ProjectCode Input.

US15

AS DIRECTOR, I WANT TO GET A LIST OF ALL PROJECTS

AUTHOR: MAURÍCIO BARROS 1211785

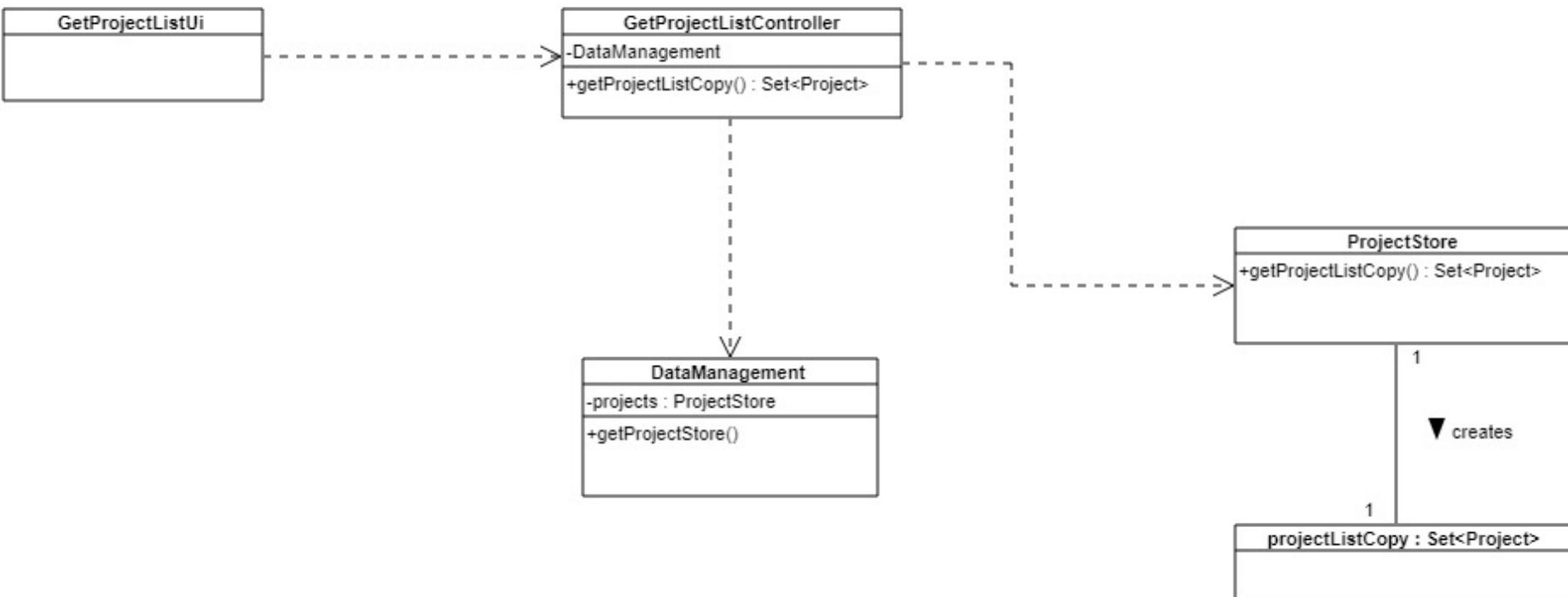
US 15 – Sequence Diagram



US15 – Class Diagram

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

US15 - As Director, I want to
get a list of all projects



Unit Tests JUnit

Test 1: Get the project list successfully

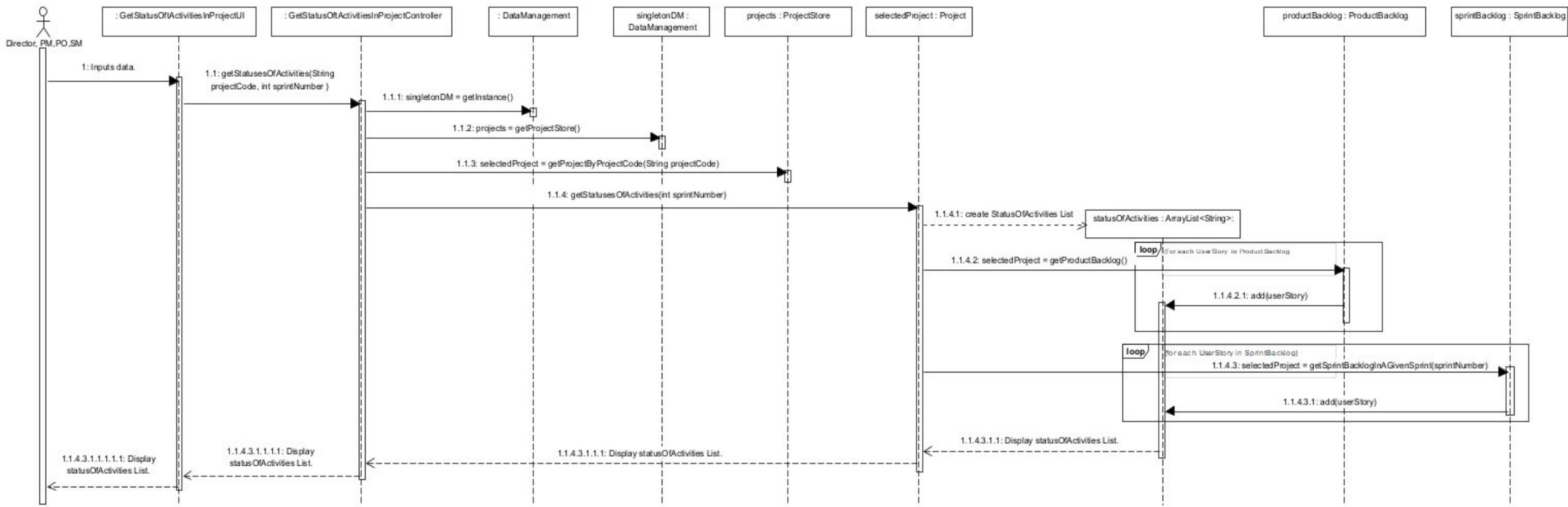
Test 2: Get an empty project list

Test 3: Get a project list with multiple projects

US16

AS DIRECTOR/PM/PO/SM, I WANT TO VIEW STATUS OF ACTIVITIES IN A PROJECT

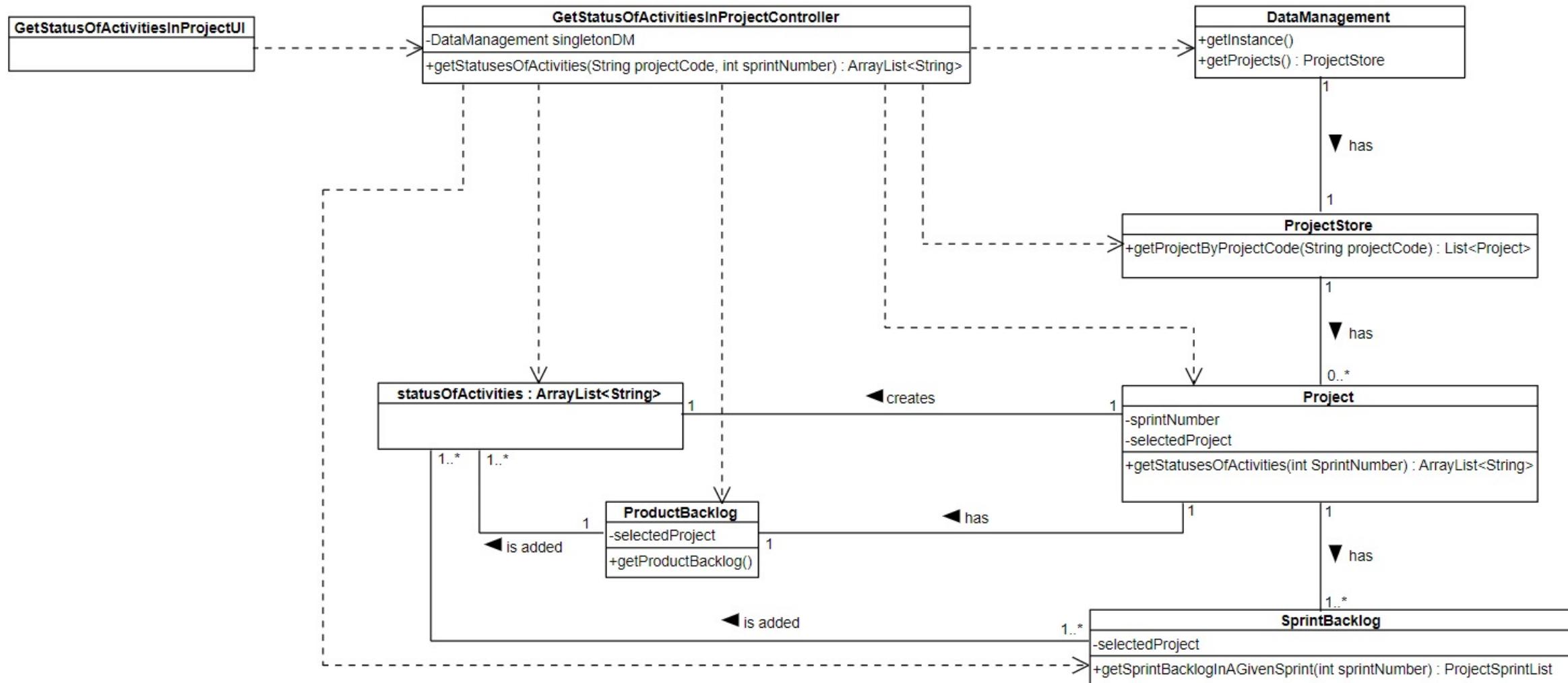
AUTHOR: GISELA ARAÚJO 1211765



US016 - As Director/PM/PO/SM,I want to view status of activities in a project.

For the activities of a project we considered only the UserStories because at this moment we still don't have any user stories for creating tasks.

**US016 - As Director/PM/PO/SM,
I want to view status of activities in a project.**



Unit Tests JUnit

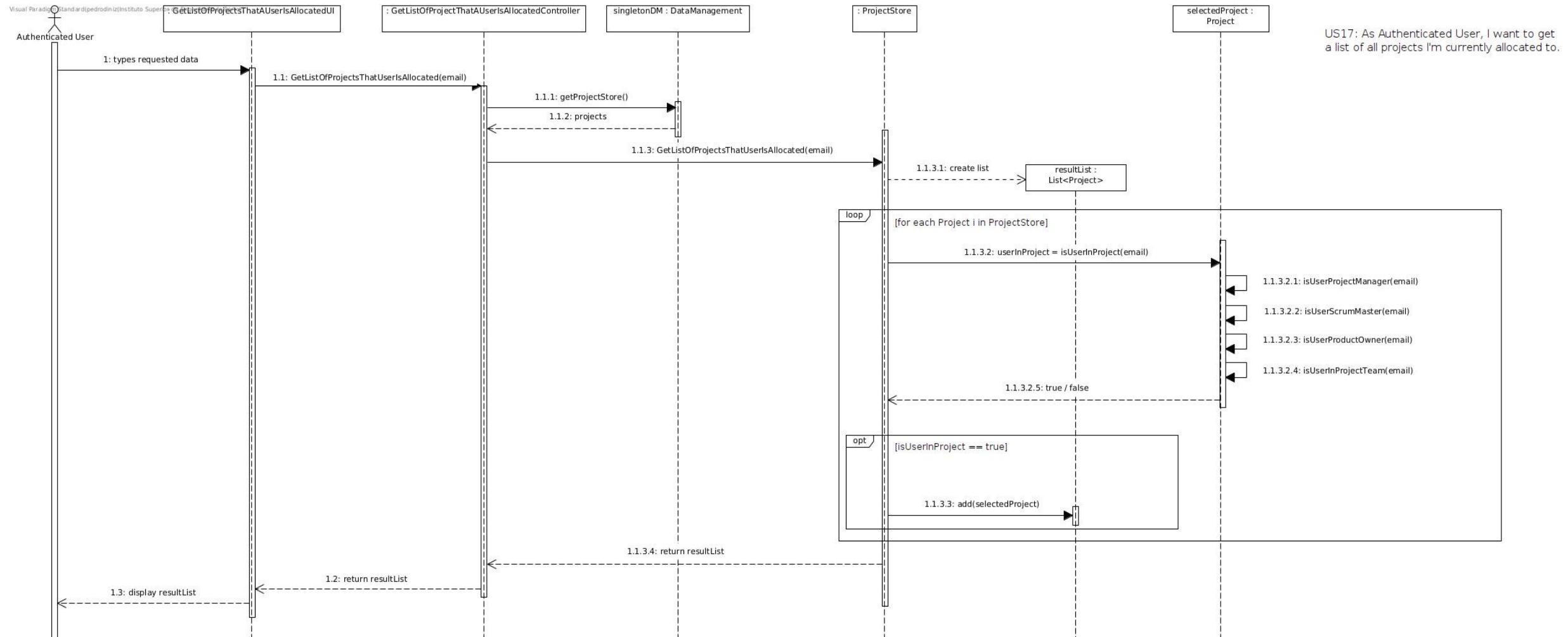
- **Test 1:** Get Status of Activities in Sprint Backlog of a Project.
- **Test 2:** Get Status of Activities in Product Backlog of a Project.
- **Test 3:** Get Sprint Backlog in a Given Sprint (indirect test).
- **Test 4:** Override `toString()` for User stories status and code description.
- **Test 5:** Get status of a User Story.

US17

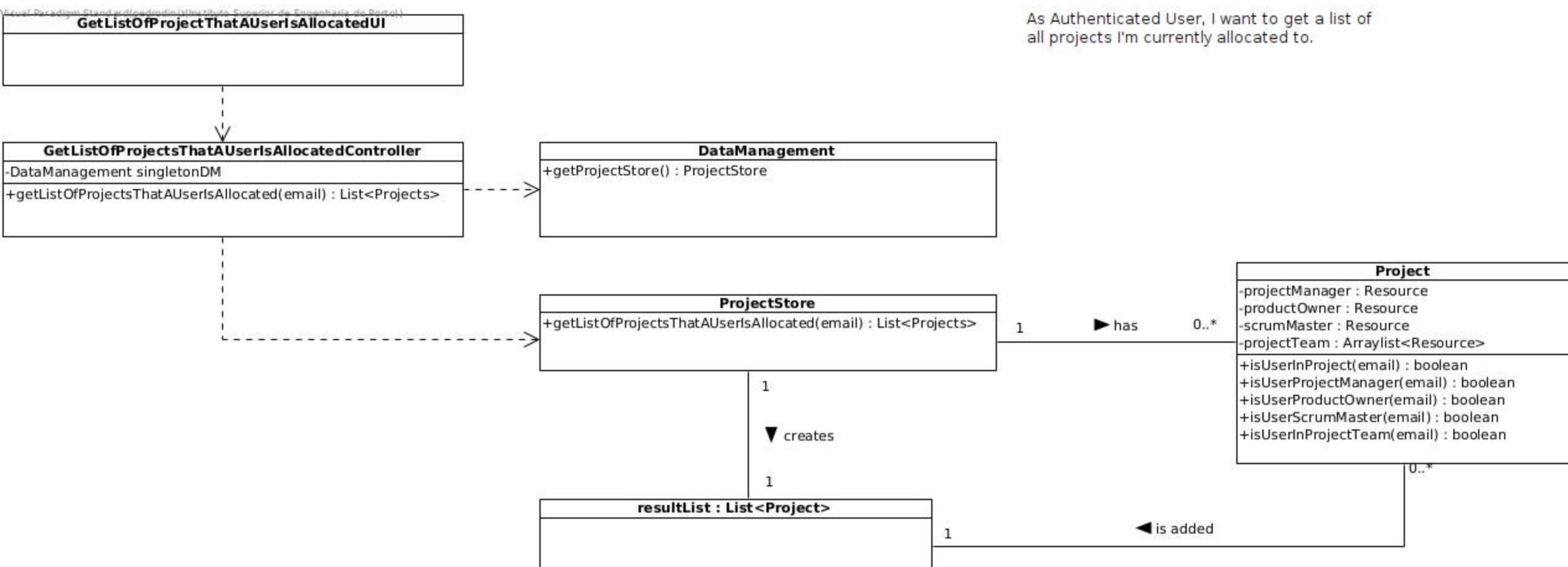
AS AUTHENTICATED USER, I WANT TO GET A LIST OF ALL PROJECTS I'M CURRENTLY ALLOCATED TO

AUTHOR: PEDRO DINIZ 1170053

US 17 - Sequence Diagram



US 17 - Class Diagram



Unit Tests JUnit

Test 1: Get list of projects when user is allocated in a single project;

Test 2: Get list of projects when user is allocated in several projects with different roles;

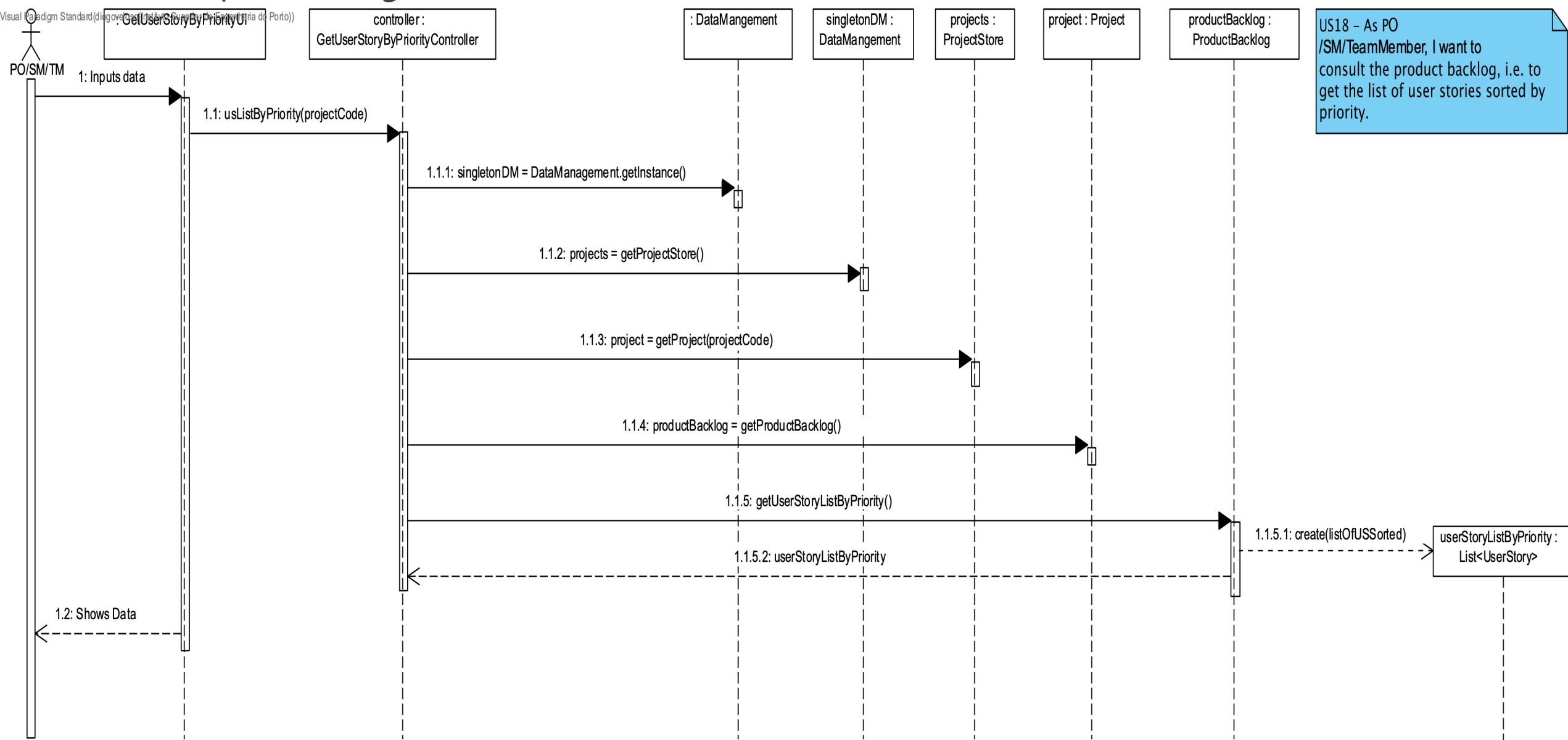
Test 3: Get list of projects when user is not allocated in any project, returns an empty list;

US18

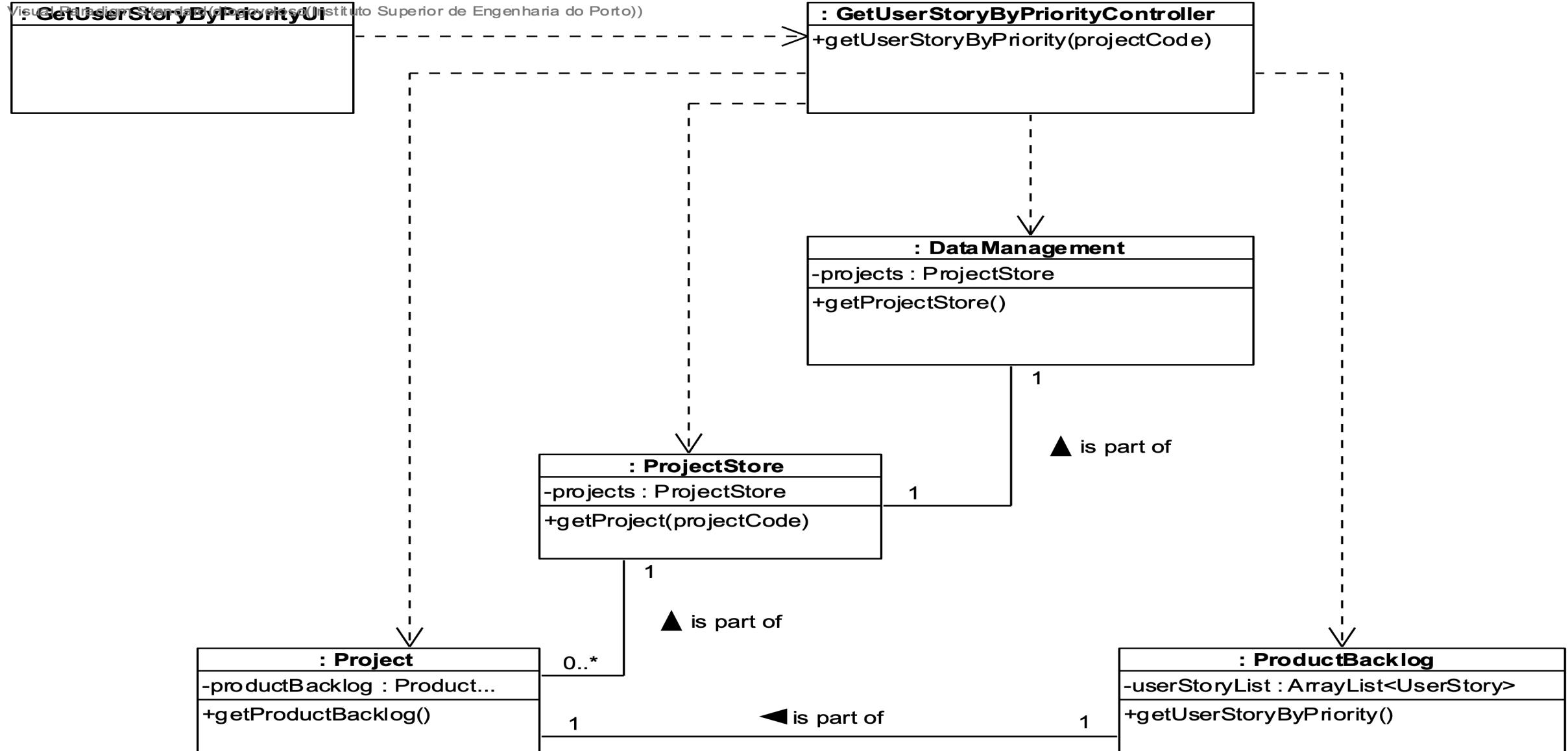
AS PO/SM/TEAM MEMBER, I WANT TO CONSULT THE PRODUCT BACKLOG,
I.E. TO GET THE LIST OF USER STORIES SORTED BY PRIORITY

AUTHOR: DIOGO VELOSO 1211759

US 18 - Sequence Diagram



US 18 - Class Diagram



Unit Tests JUnit

ProductBacklogTest

Test 1: getUserStoryByPrioritySuccessfully()

Test 2: getUserStoryByPriorityAfterChangePriority()

GetUserStoryByPriorityControllerTest

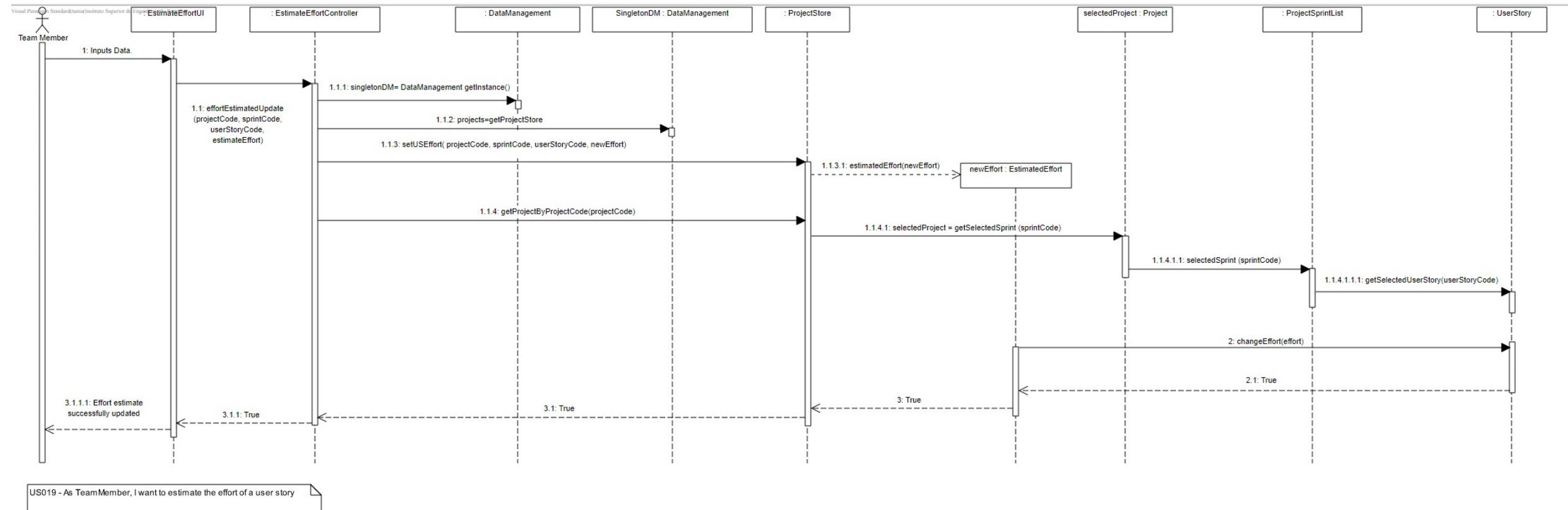
Test 1: getUserStoryByPriorityWithNullParam()

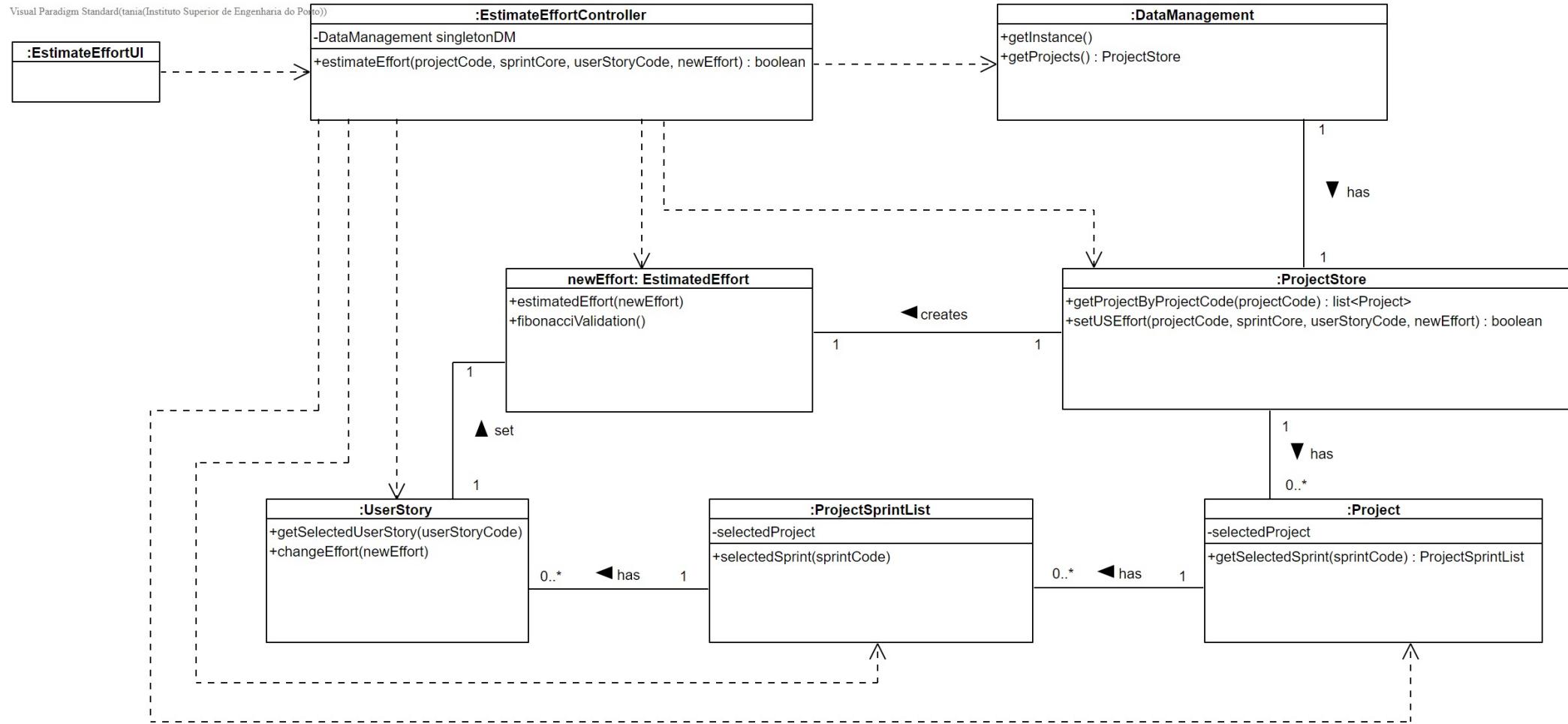
Test 2: getUserStoryByPriorityWithoutProject()

US19

AS TEAM MEMBER, I WANT TO ESTIMATE THE EFFORT OF A USER STORY

AUTHOR: TÂNIA MOTA





Unit Tests JUnit

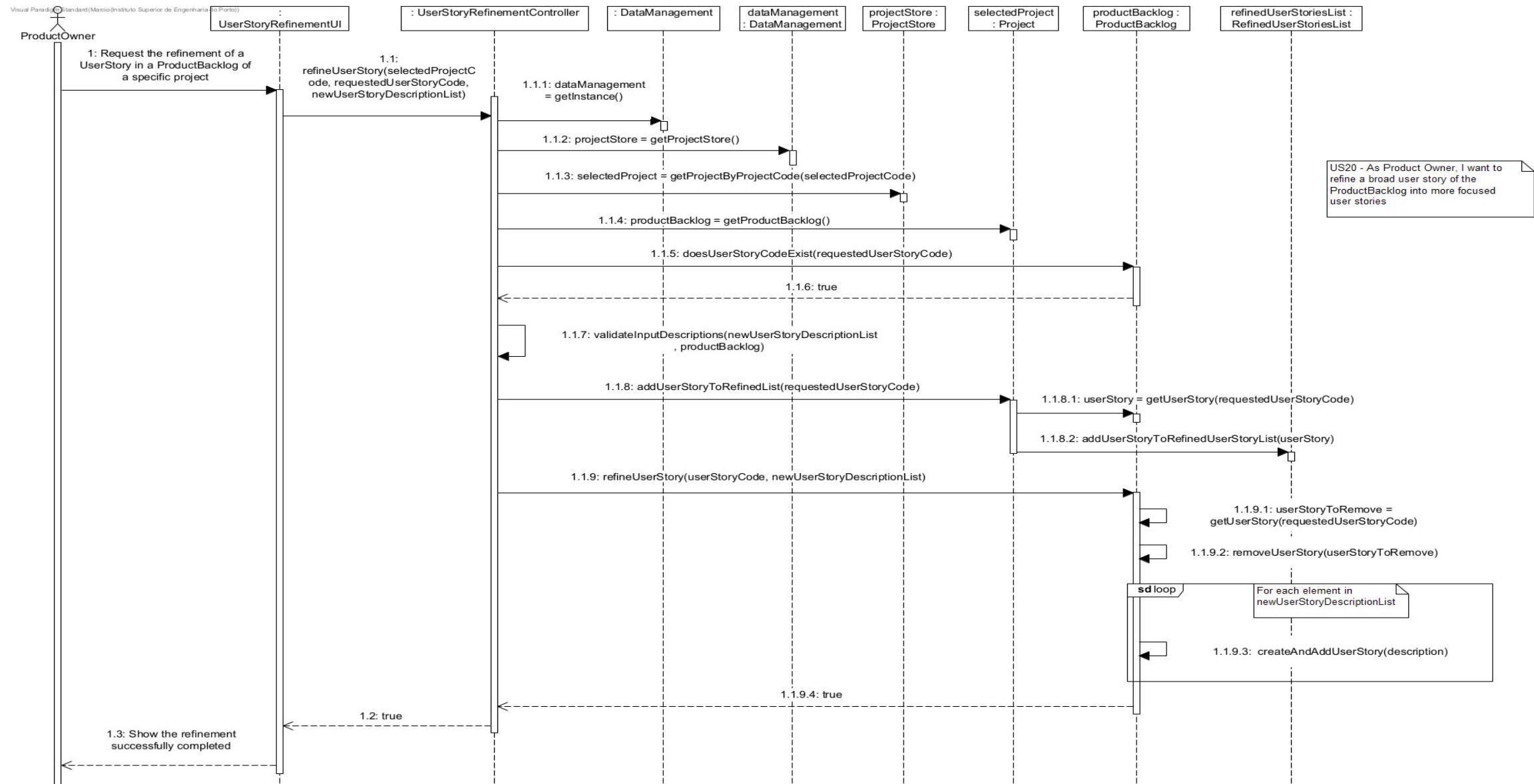
- Test 1 : Updating the effort estimated of a US successfully
- Test 2 : Updating the effort estimated of a US failure
- Test 3 : Estimating the effort of a US successfully
- Test 4 : Estimating the effort of a US fails if:
 - The project doesn't exist;
 - The sprint doesn't exist;
 - The US doesn't exist;
- Test 5 : Changing the effort of a US successfully
- Test 6 : Validation of the Fibonacci sequence

US20

AS PRODUCT OWNER, I WANT TO REFINE A BROAD USER STORY OF THE
PRODUCTBACKLOG INTO MORE FOCUSED USER STORIES

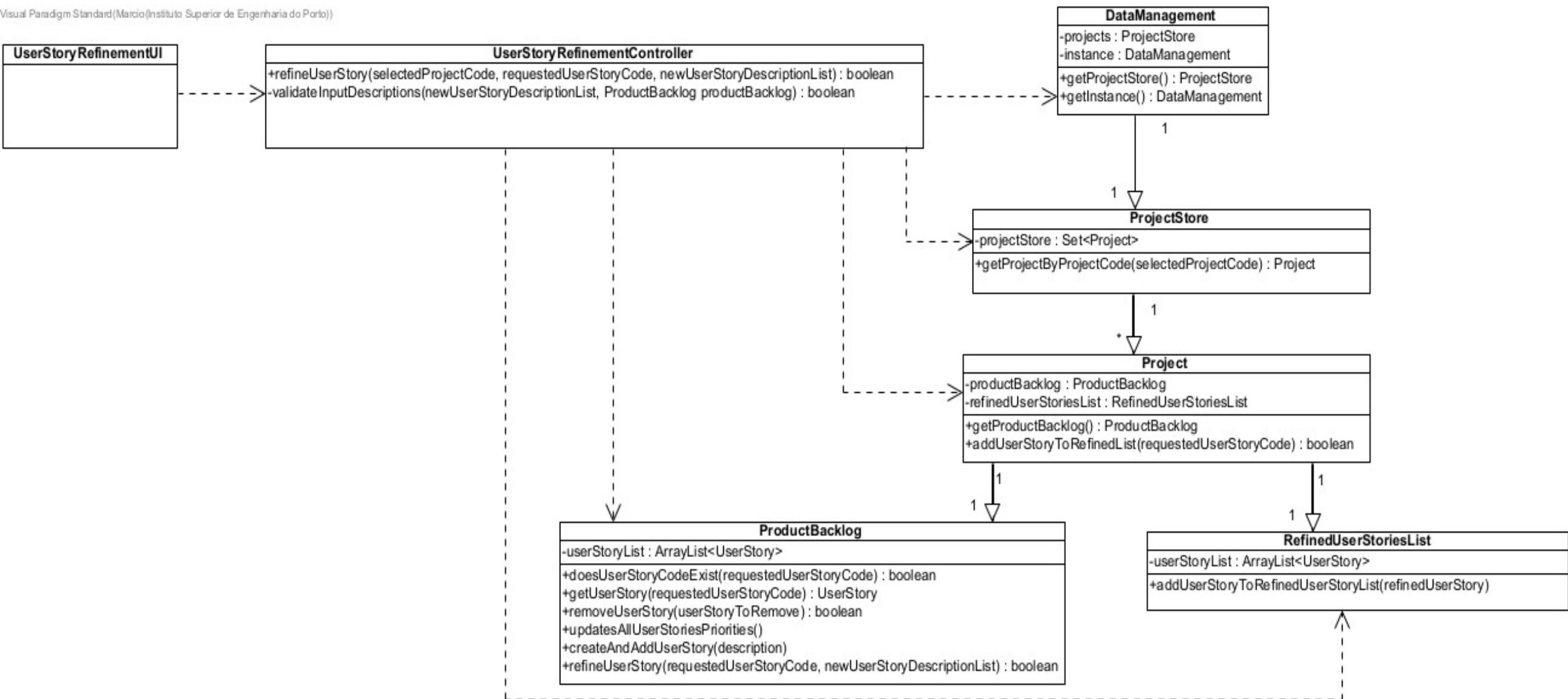
AUTHOR: MÁRCIO CARVALHEIRO 1211779

US 20 - Sequence Diagram



US 20 – Class Diagram

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



Unit Tests JUnit

Test 1: Successful refinement of a User Story into more focused ones, returning true;

Test 2: Unsuccessful refinement due to null inputs, returning an exception;

Test 3: Unsuccessful refinement due to Project not being in store, returning false;

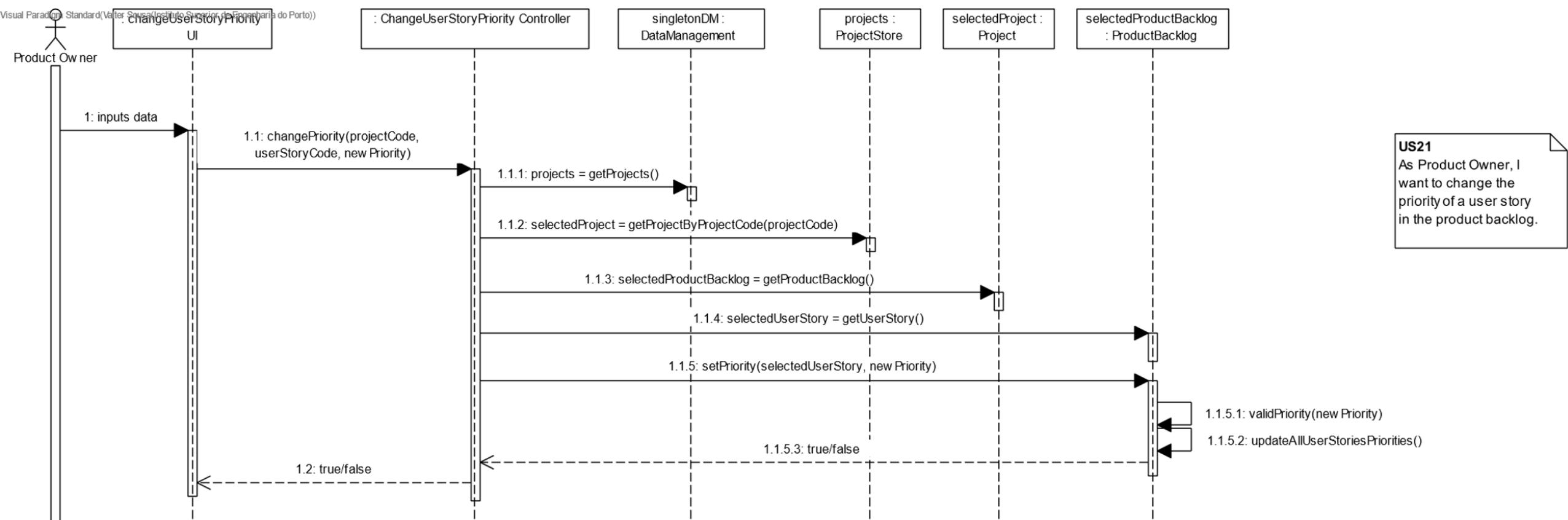
Test 4: Unsuccessful refinement due to User Story not being in Product Backlog, returning false;

Test 5: Unsuccessful refinement due to invalid new User Story descriptions, returning false;

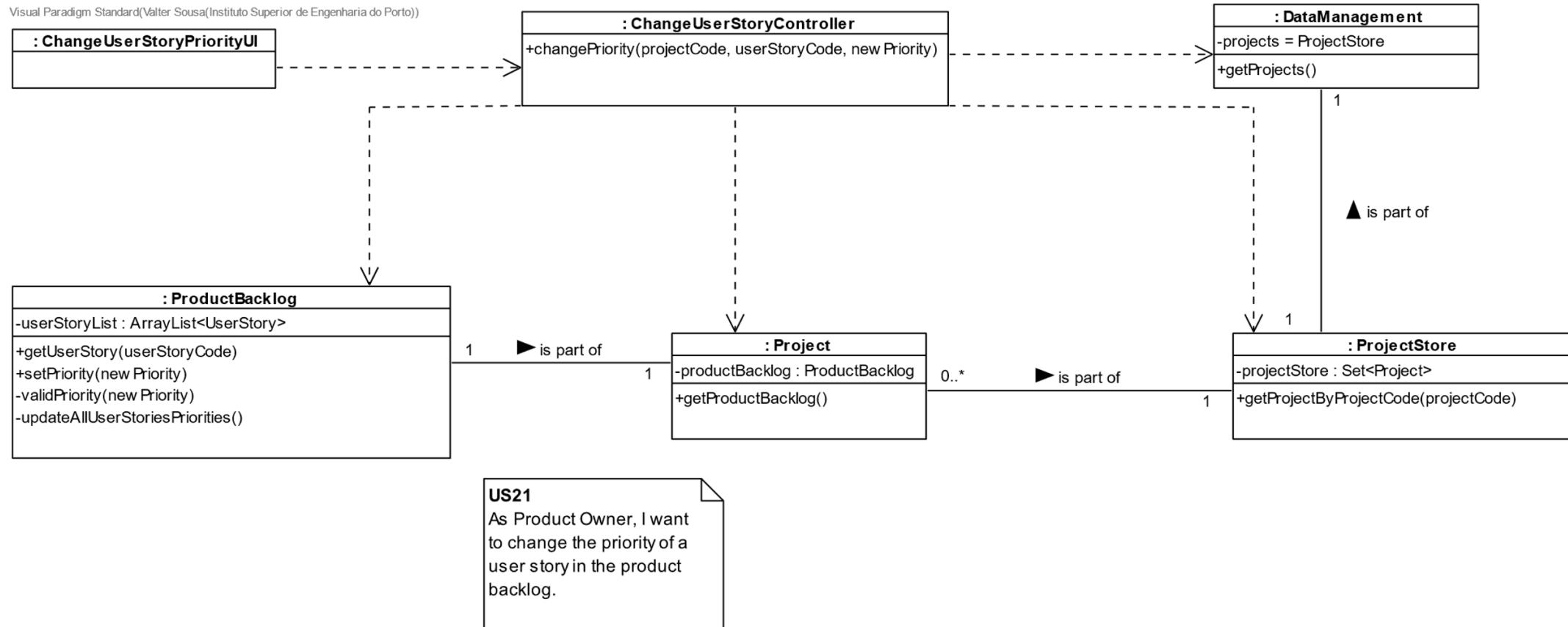
US21

AS PRODUCT OWNER, I WANT TO CHANGE THE PRIORITY OF A USER STORY IN THE PRODUCT BACKLOG

AUTHOR: VALTER SOUSA 1211801



Visual Paradigm Standard(Valter Sousa(Instituto Superior de Engenharia do Porto))



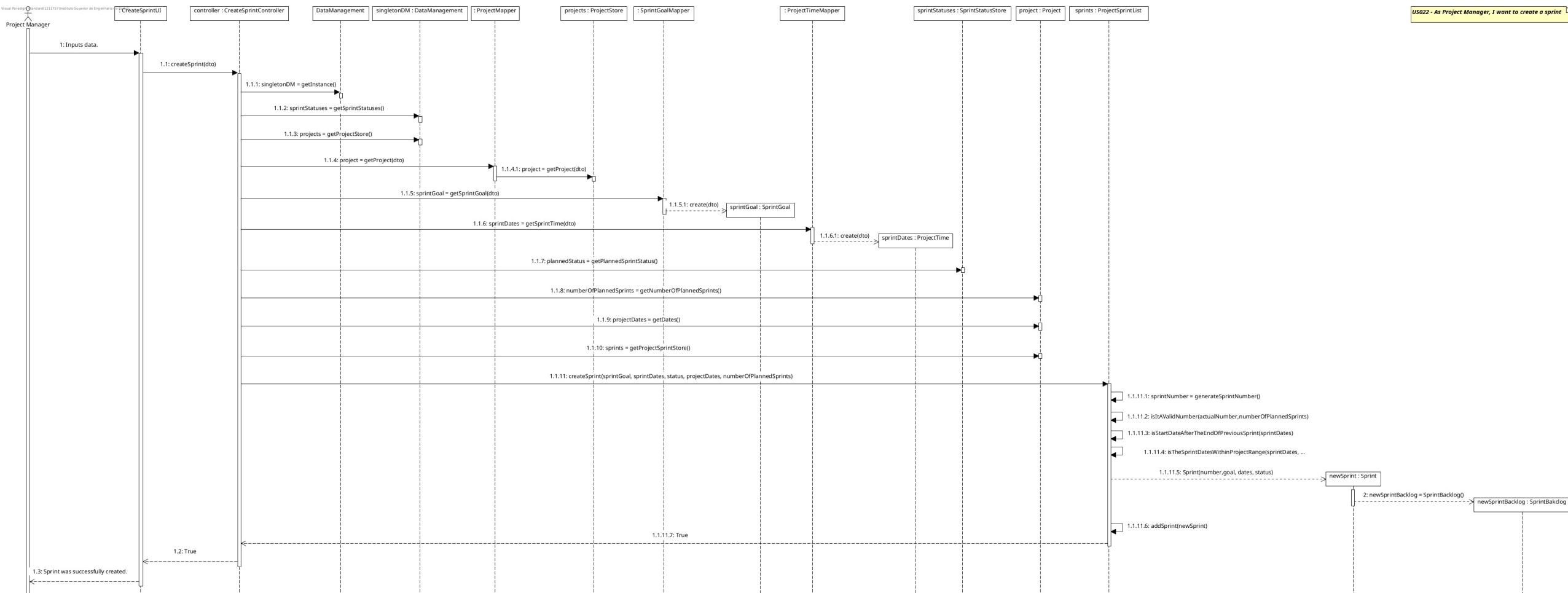
Unit Tests JUnit

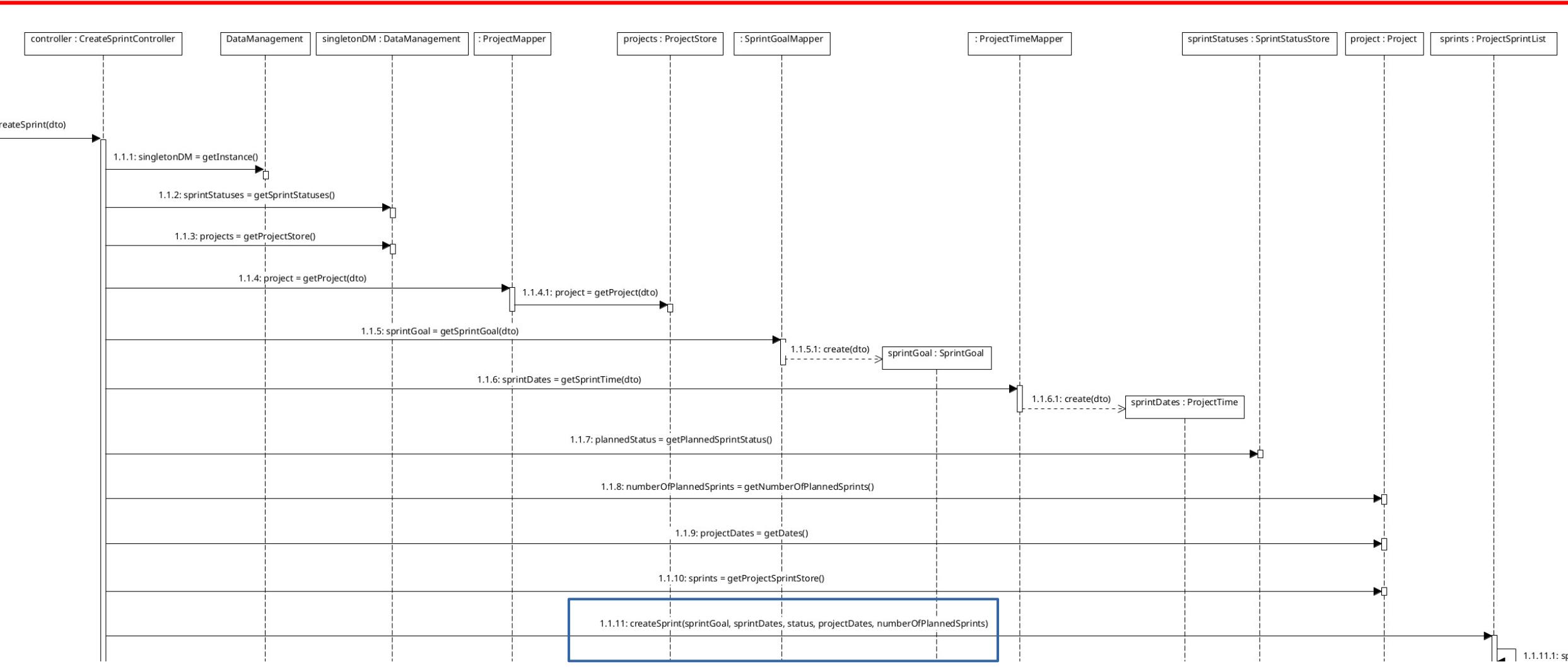
- Test 1: Validation of the new priority;
- Test 2: Setting the priority of a User Story successfully;
- Test 3: Setting the priority of a User Story fails if:
 - Project does not exist;
 - User Story does not exist;
 - Null Parameters;
- Test 4: When a priority is set, updates the priority of the other User Stories;

US22

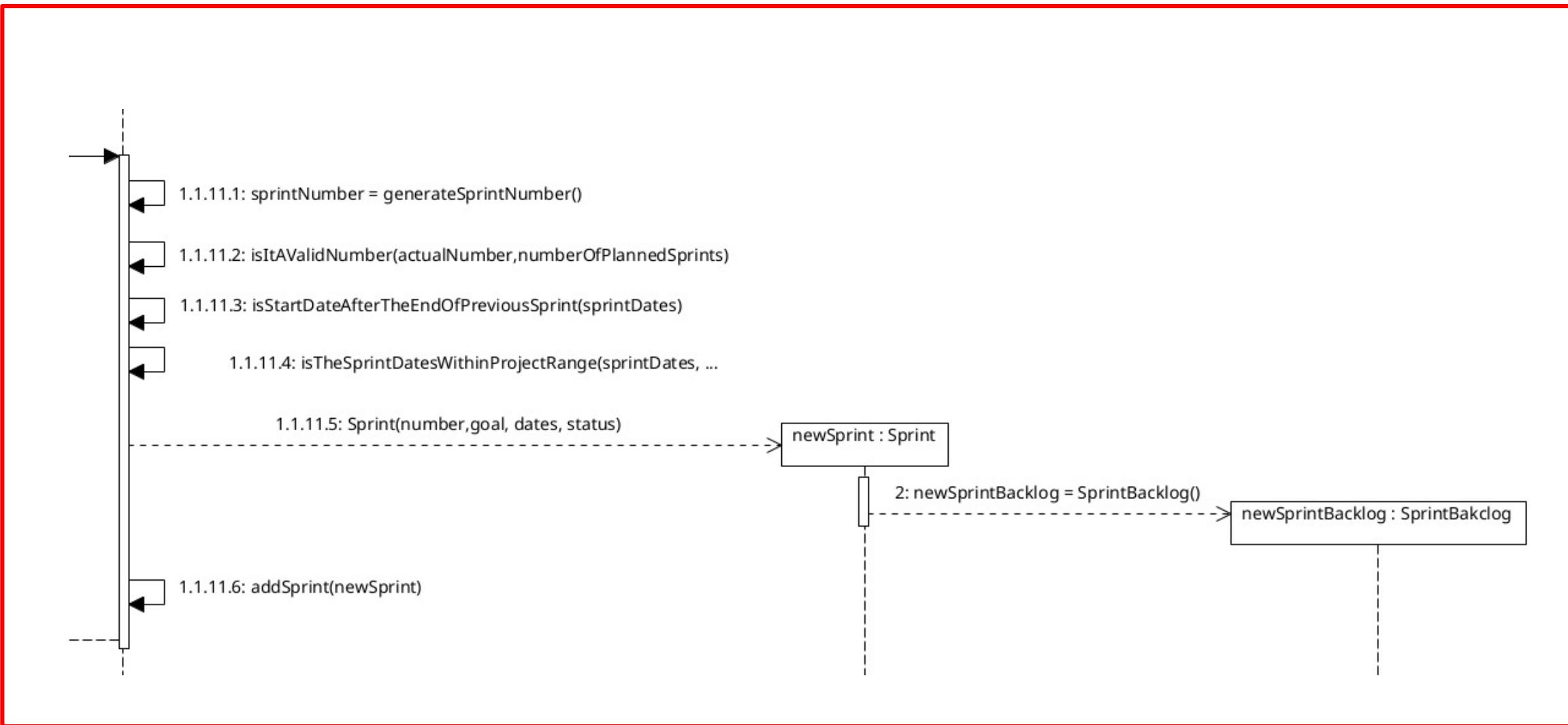
AS PROJECT MANAGER, I WANT TO CREATE A SPRINT

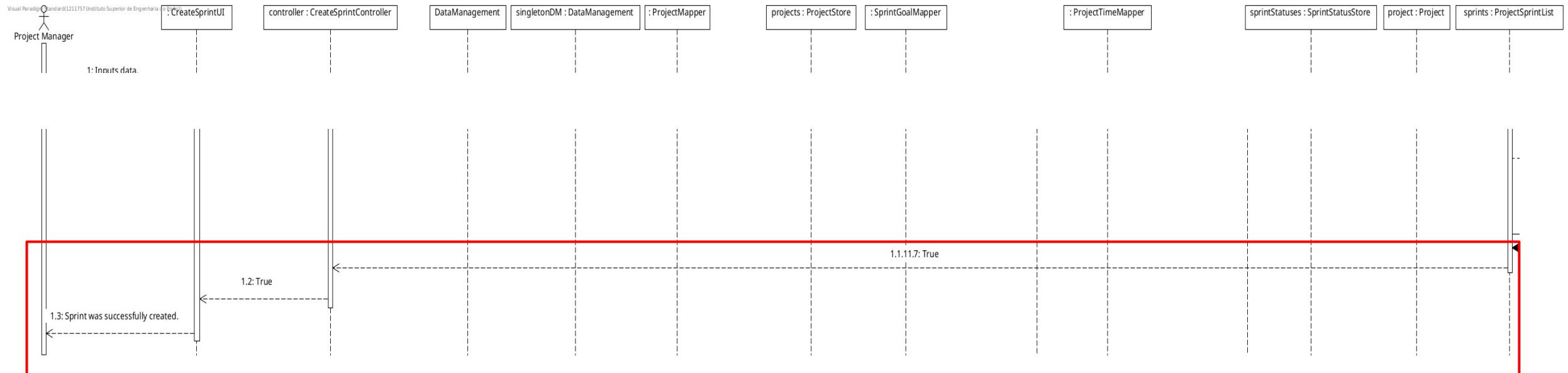
AUTHOR: DANIEL TORRES 1211757

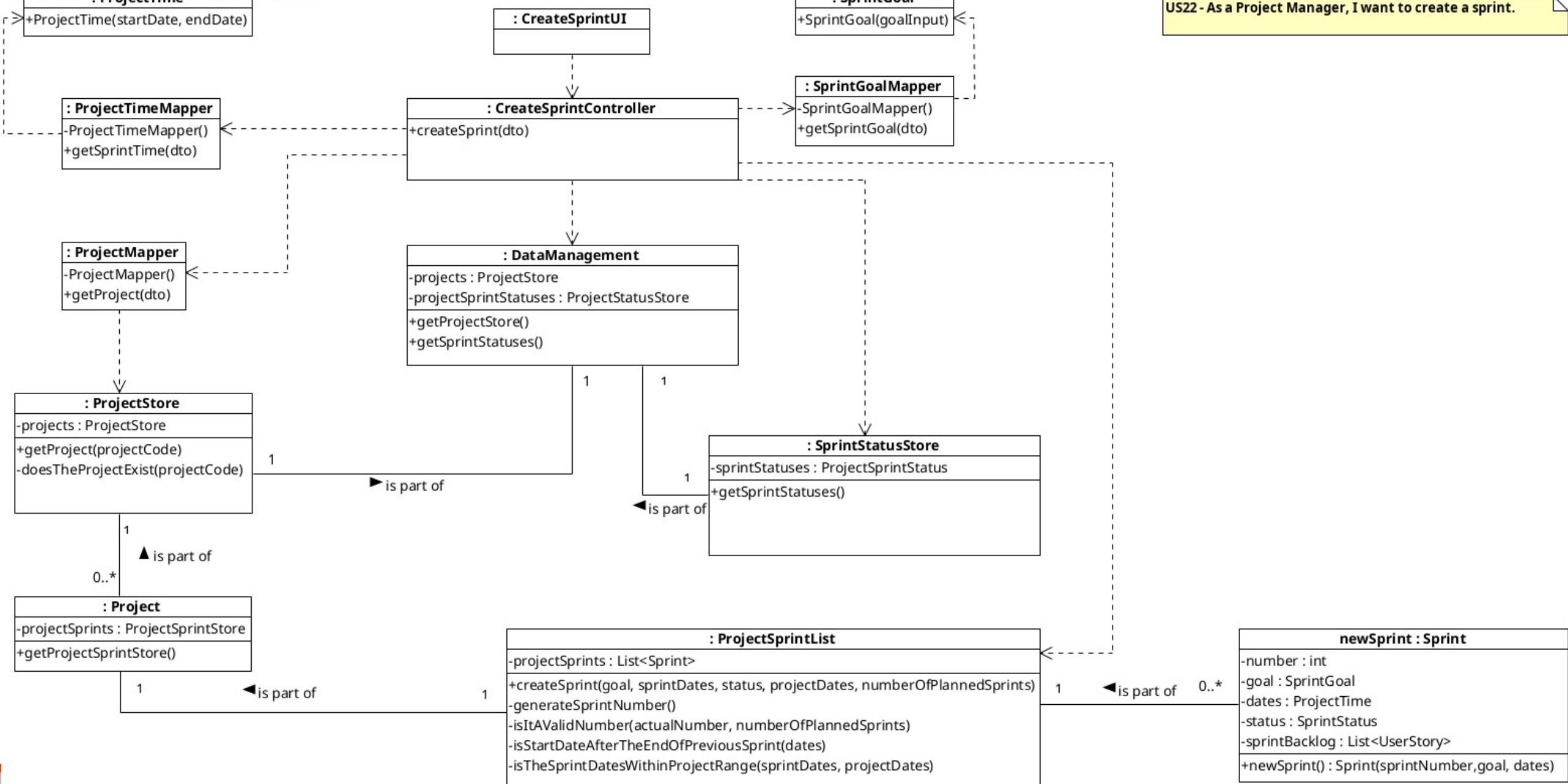




sprints : ProjectSprintList







Unit Tests JUnit

Creation Of First Sprint Is Successful

Creation Of First Sprint Fails Because Of Invalid Data

Creation Of First Sprint Fails Because Of Invalid Description

Creation Of First Sprint Fails Because Sprint Dates Are Not In Project Time Interval

Creation Of First Sprint Fails Because Code Does Not Exists In Project Store

Creation Of Second Sprint Is Successful

Creation Of Second Sprint Fails Because Sprint Dates Are Not In Project Time Interval

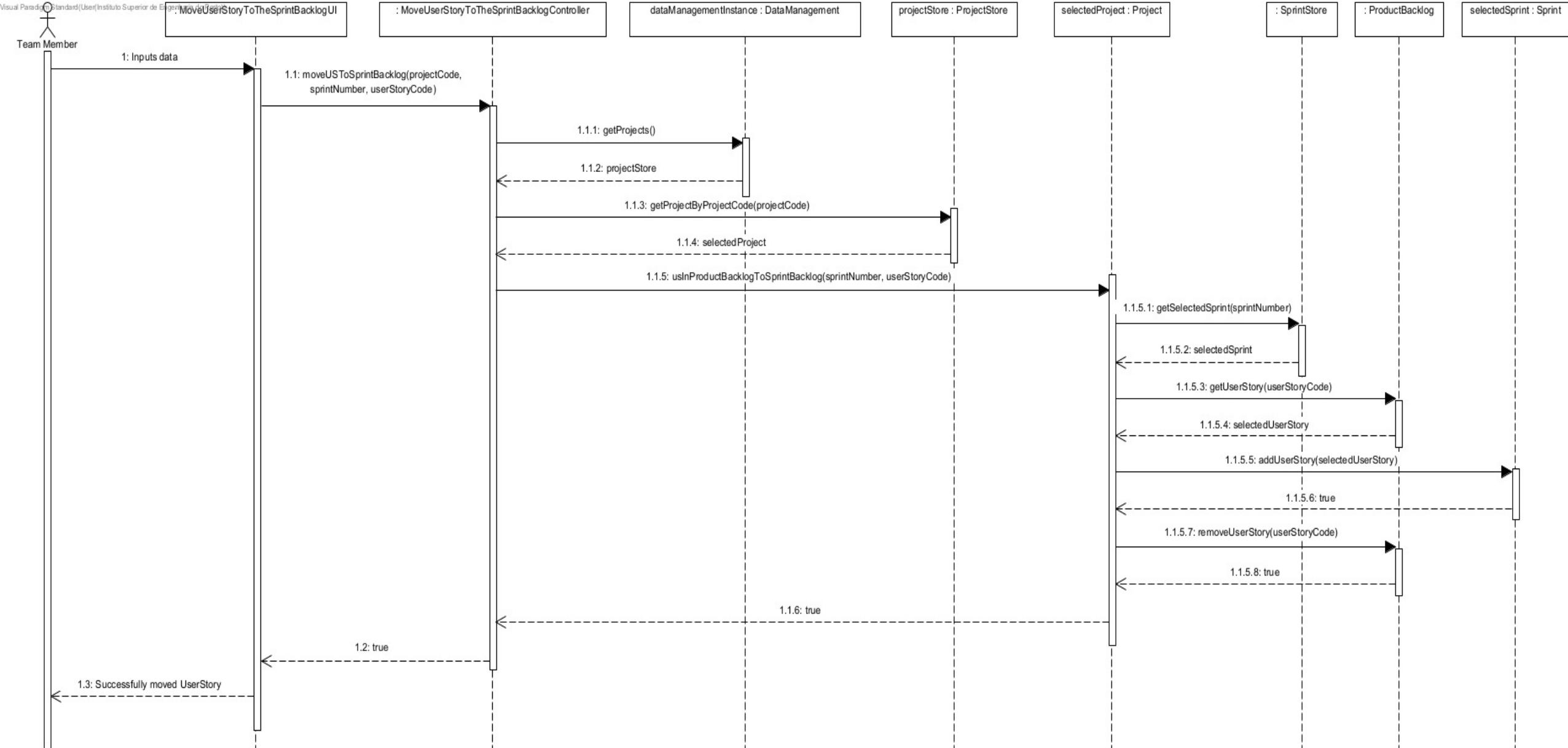
Creation Of Second Sprint Fails Because Current Start Date Is Previous LastSprint End Date

Creation Of Third Sprint Fails Because Is Greater Than Expected Number Of Sprints

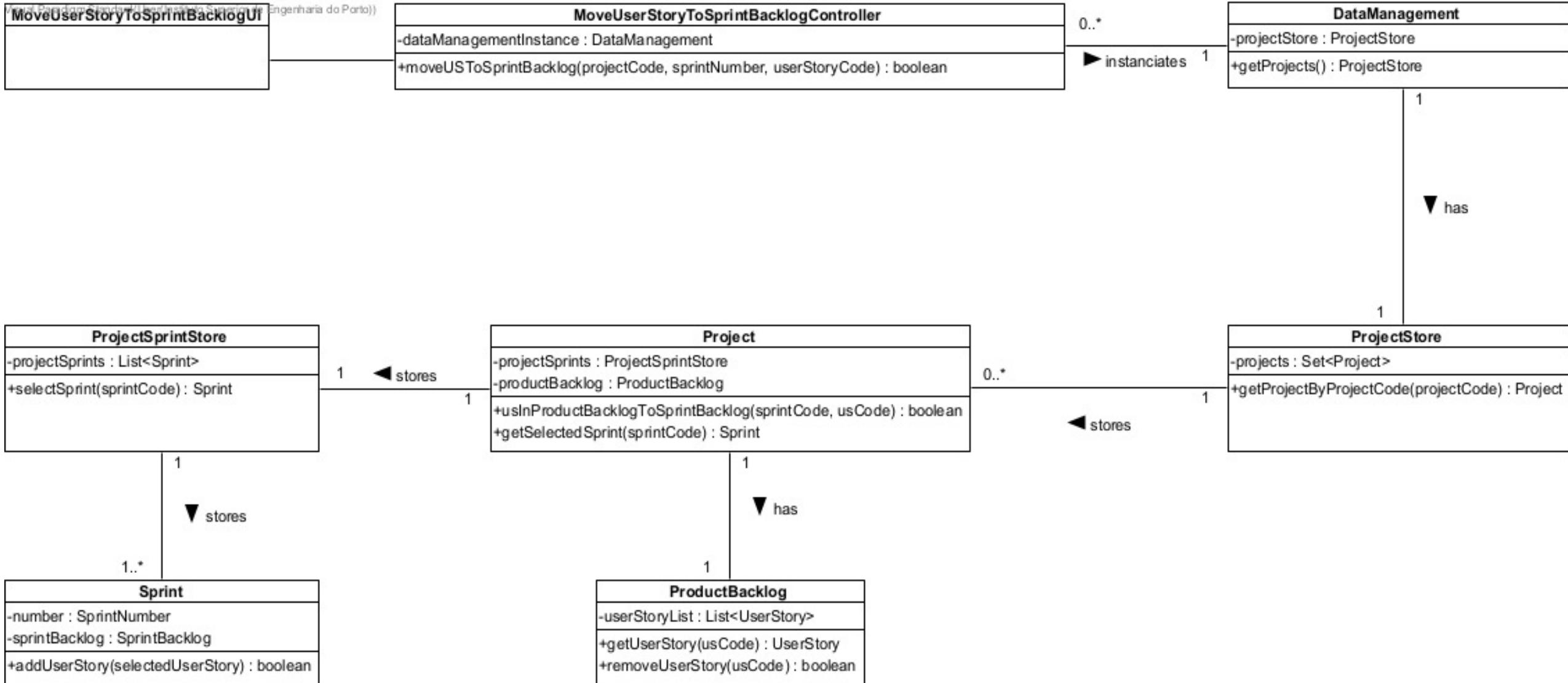
US23

AS TEAM MEMBER, I WANT TO ADD A USER STORY IN THE PRODUCT BACKLOG TO THE SPRINT BACKLOG

AUTHOR: TIAGO MACHADO 1211799



US023 - As Team Member, I want to add a user story in the product backlog to the sprint backlog



Unit Tests JUnit

- Test a successful move of a user story in the product backlog to the sprint backlog.
- Test a null project code.
- Test a not null but still invalid project code.
- Test an invalid sprint number.
- Test a null user story code.
- Test a not null but still invalid user story.

Success case test

```
@Test
void testAddUSToSprintBacklogSuccessCase() {
    // Get the previously created Project
    Project testProject = dm.getProjects().getProjectByProjectCode("P0101");

    // Add a sprint to the testProject
    testProject.getProjectSprints().addSprint(validSprint);

    // Move an UserStory identified by the code, "US1", to the sprint identified by the sprint number,
    // to the project identified by the project code, "P0101"
    boolean result = moveUSController.moveUSToSprintBacklog( projectCode: "P0101",   sprintNumber: 1,
        userStoryCode: "US1");

    assertTrue(result);
    dm.getProjects().removeProjectFromStore(testProject);
}
```

Null project code test

```
@Test
void testAddUSToSprintBacklogNullProjectCode() {
    // Get the previously created Project
    Project testProject = dm.getProjects().getProjectByProjectCode("P0101");

    // Add a sprint to the testProject
    testProject.getProjectSprints().addSprint(validSprint);

    // If no project identifier is provided the controller should return false
    boolean result = moveUSController.moveUSToSprintBacklog( projectCode: null,   sprintNumber: 1,   userStoryCode: "US1");

    assertFalse(result);
    dm.getProjects().removeProjectFromStore(testProject);
}
```

Invalid project code test

```
@Test
void testAddUSToSprintBacklogInvalidProjectCode() {
    // Get the previously created Project
    Project testProject = dm.getProjects().getProjectByProjectCode("P0101");

    // Add a sprint to the testProject
    testProject.getProjectSprints().addSprint(validSprint);

    // If the project identifier is invalid, or no match is found the controller should return false
    boolean result = moveUSController.moveUSToSprintBacklog( projectCode: "Invalid",   sprintNumber: 1,
    |           userStoryCode: "US1");

    assertFalse(result);
    dm.getProjects().removeProjectFromStore(testProject);
}
```

Invalid sprint number test

```
@Test
void testAddUSToSprintBacklogInvalidSprintNumber() {
    // Get the previously created Project
    Project testProject = dm.getProjects().getProjectByProjectCode("P0101");

    // Add a sprint to the testProject
    testProject.getProjectSprints().addSprint(validSprint);

    // If the sprint identifier is invalid or no match is found in a given project
    // the controller should return false
    // In this case, only one sprint was added to the project and therefore the sprint number 2 is invalid
    boolean result = moveUSController.moveUSToSprintBacklog( projectCode: "P0101", sprintNumber: 2,
        userStoryCode: "US1");

    assertFalse(result);
    dm.getProjects().removeProjectFromStore(testProject);
}
```

Null user story code test

```
@Test
void testAddUSToSprintBacklogNullUSCode() {
    // Get the previously created Project
    Project testProject = dm.getProjects().getProjectByProjectCode("P0101");

    // Add a sprint to the testProject
    testProject.getProjectSprints().addSprint(validSprint);

    // If the UserStory identifier is invalid or no match is found in a given project's product backlog
    // the controller should return false
    // In this case, only one UserStory was added to the project's sprint with the code "US1",
    // so anything else should return false
    boolean result = moveUSController.moveUSToSprintBacklog( projectCode: "P0101",   sprintNumber: 1,
        userStoryCode: null);

    assertFalse(result);
    dm.getProjects().removeProjectFromStore(testProject);
}
```

Invalid user story code test

```
@Test
void testAddUSToSprintBacklogInvalidUSCode() {
    // Get the previously created Project
    Project testProject = dm.getProjects().getProjectByProjectCode("P0101");

    // Add a sprint to the testProject
    testProject.getProjectSprints().addSprint(validSprint);

    // If the UserStory identifier is invalid or no match is found in a given project's product backlog
    // the controller should return false
    // In this case, only one UserStory was added to the project's sprint with the code "US1",
    // so anything else should return false
    boolean result = moveUSController.moveUSToSprintBacklog( projectCode: "P0101",   sprintNumber: 1,
        userStoryCode: "10");

    assertFalse(result);
    dm.getProjects().removeProjectFromStore(testProject);
}
```