

SOFTWARE-ONTWERP

PRESENTATIE: ITERATIE 1

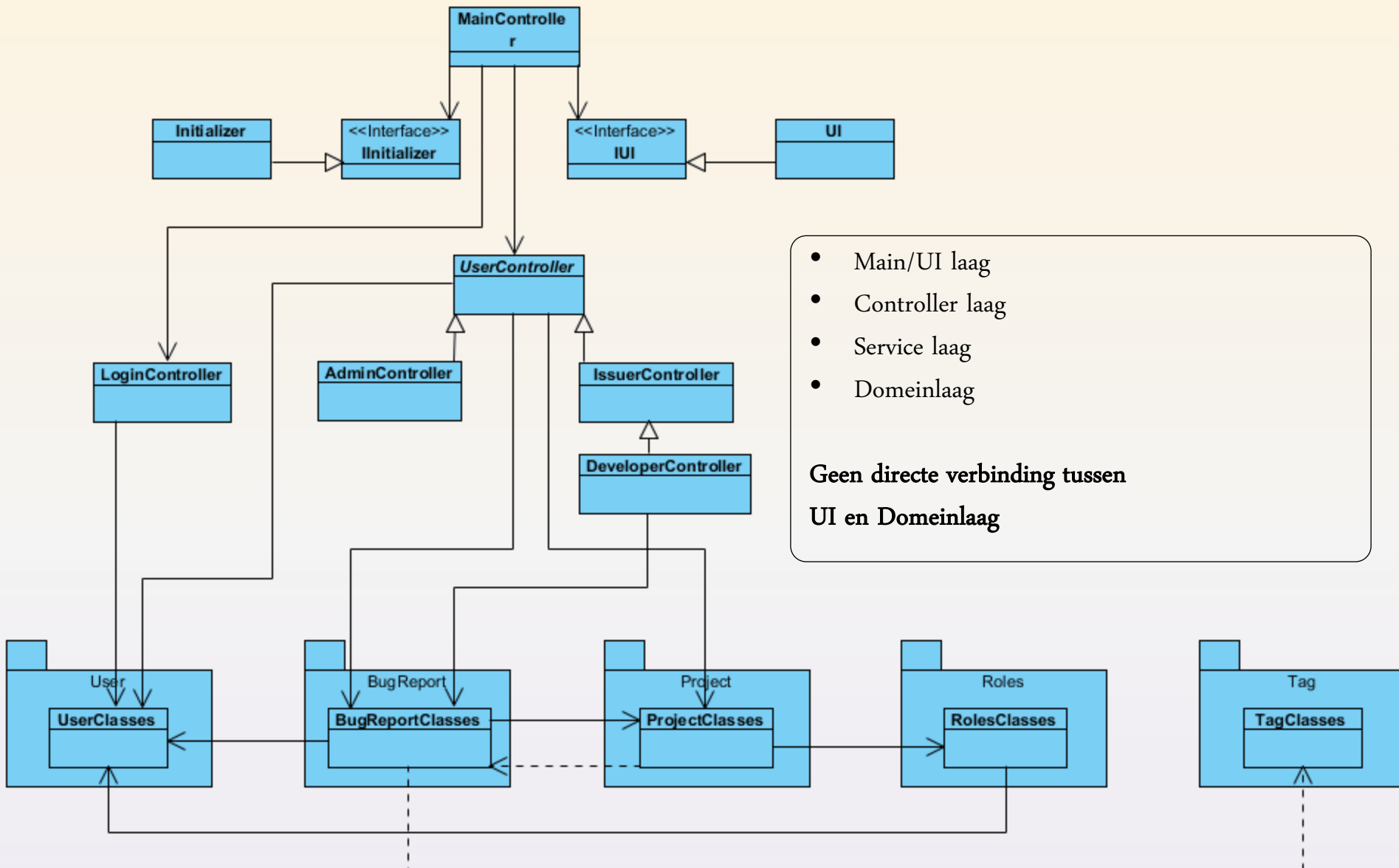
Karina Karapetyan

Laurens Cleemput

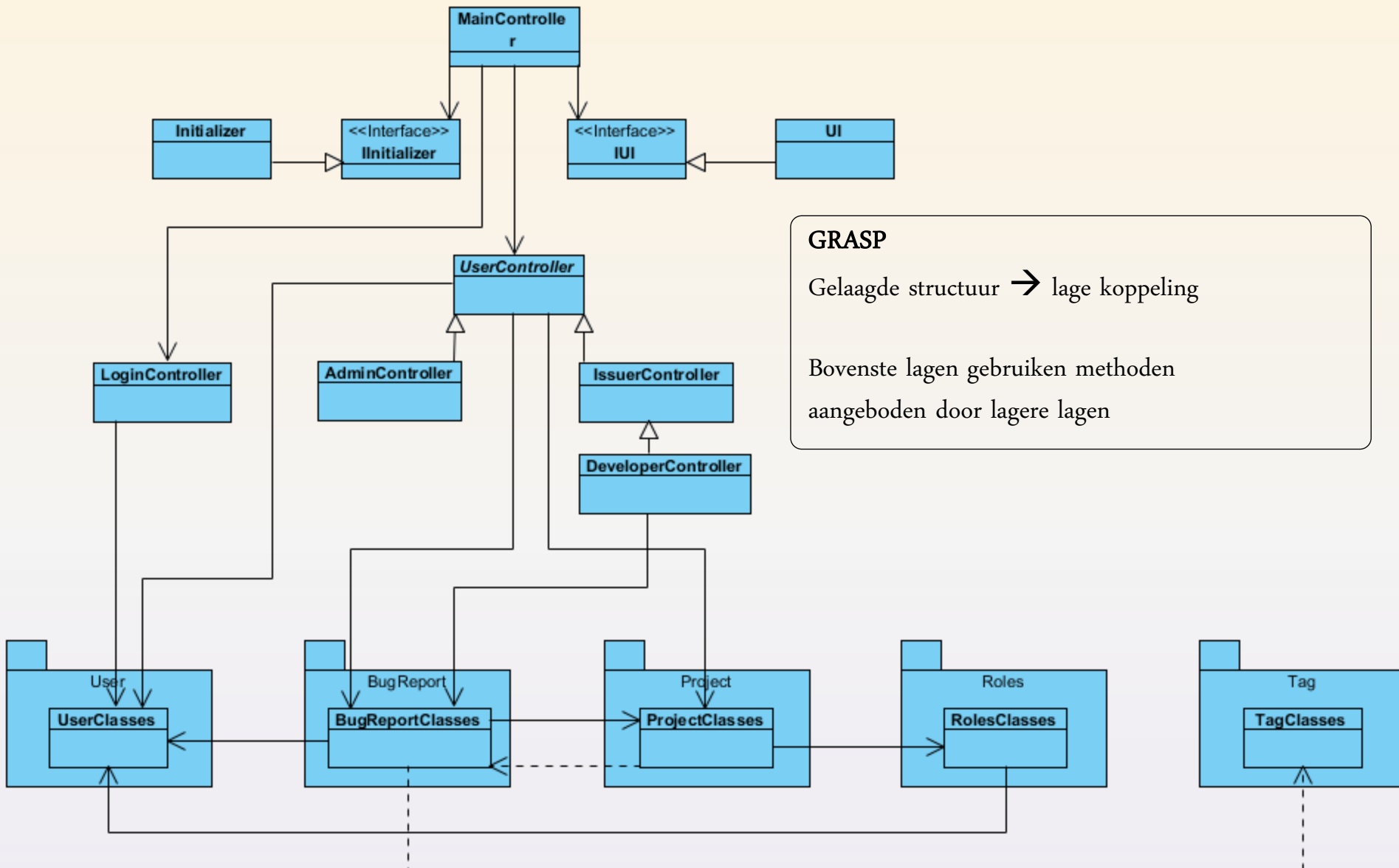
Tom Houben

Tri Tran

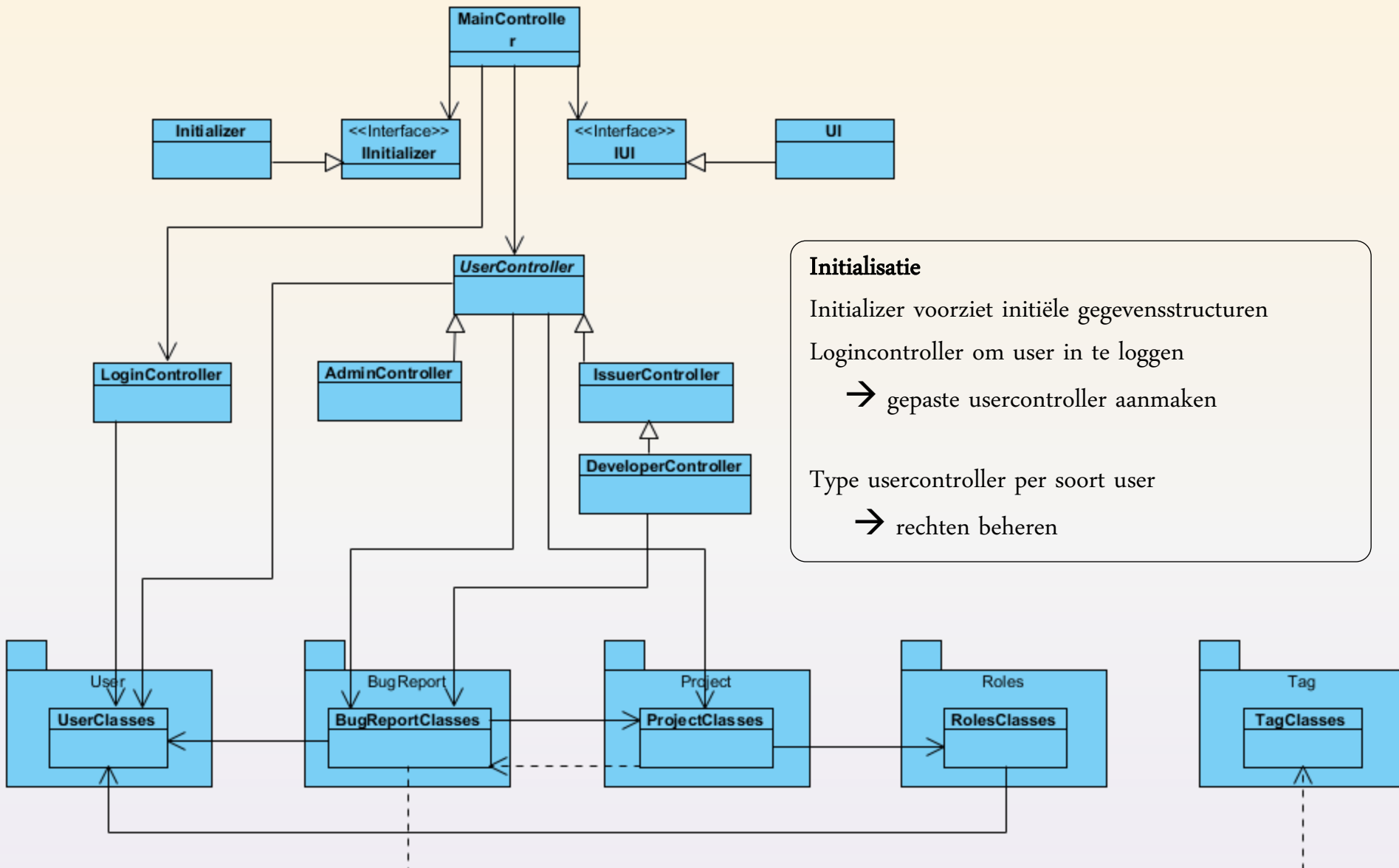
HIGH LEVEL DESIGN



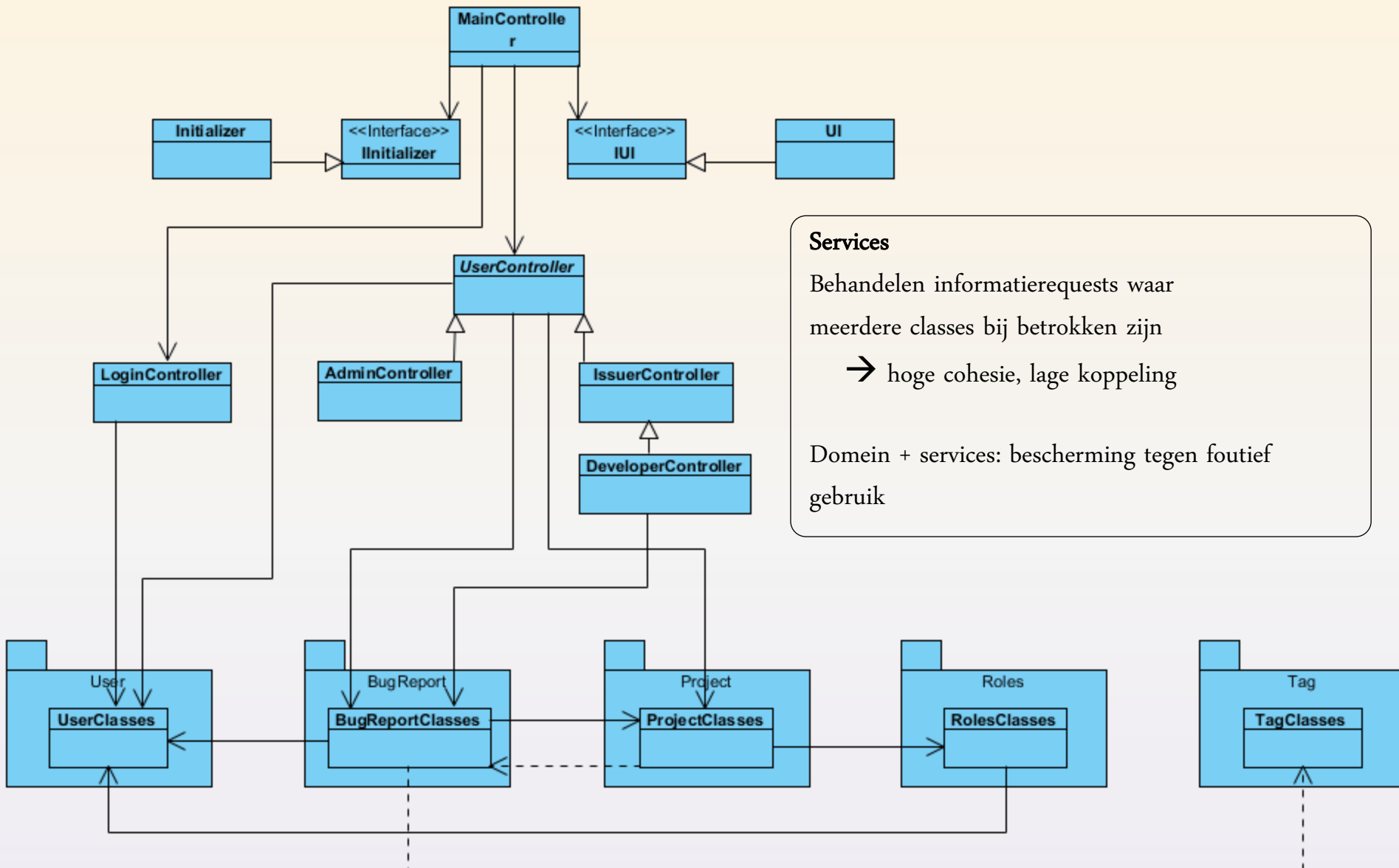
HIGH LEVEL DESIGN



HIGH LEVEL DESIGN



HIGH LEVEL DESIGN



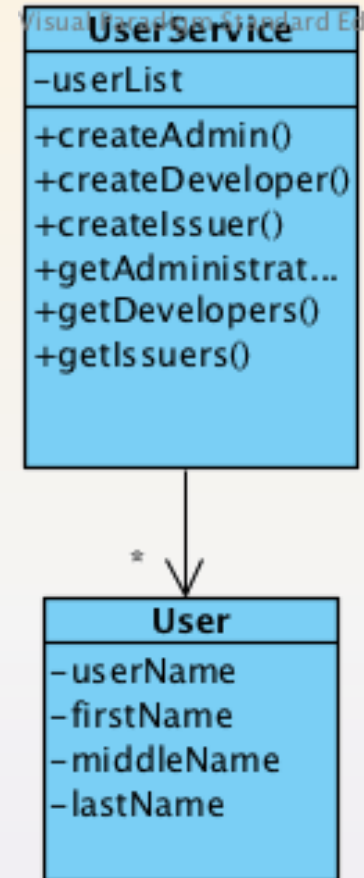
MORE DETAILED PARTS

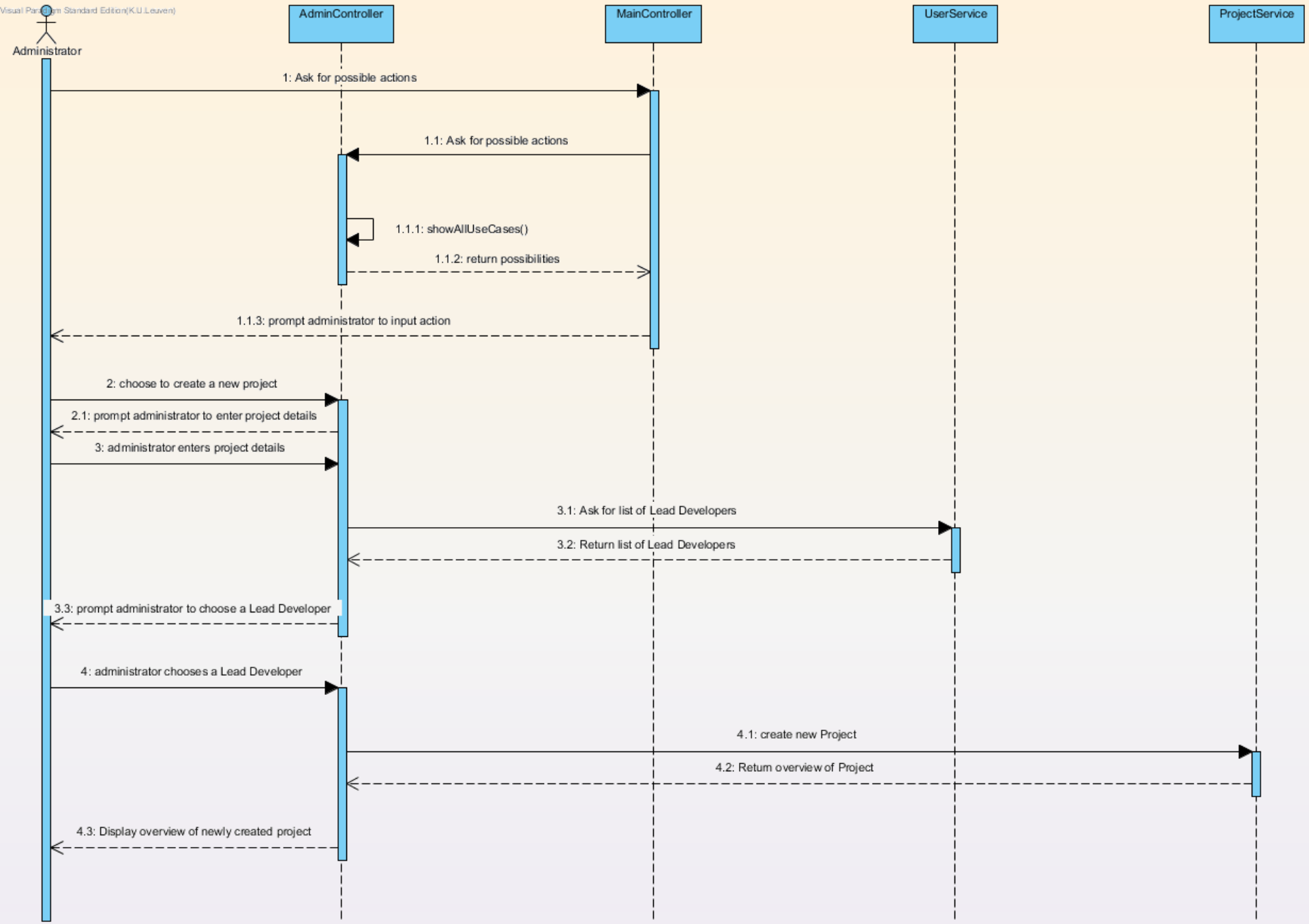
Belangrijke domeinklassen

bevatten **services**.

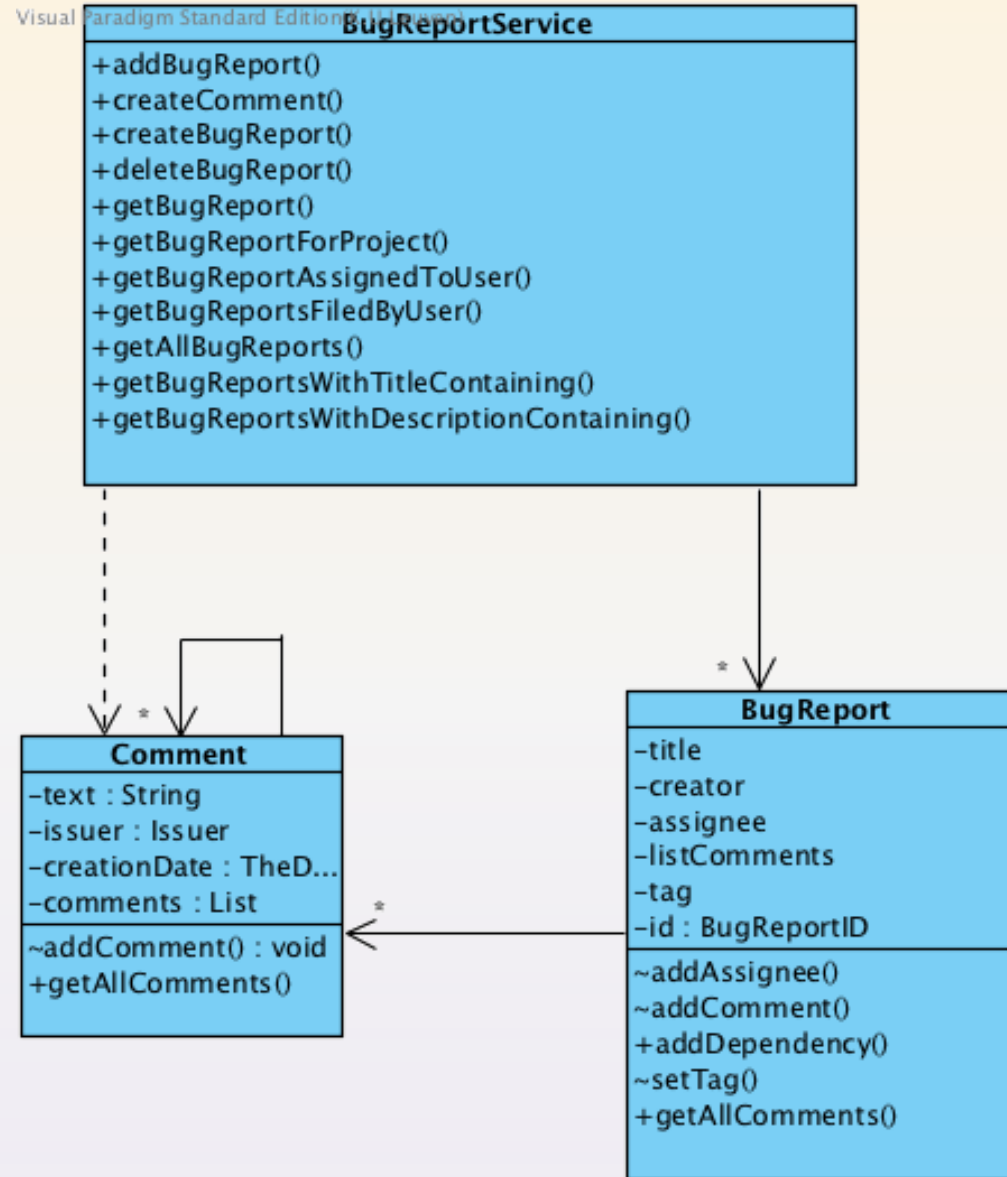
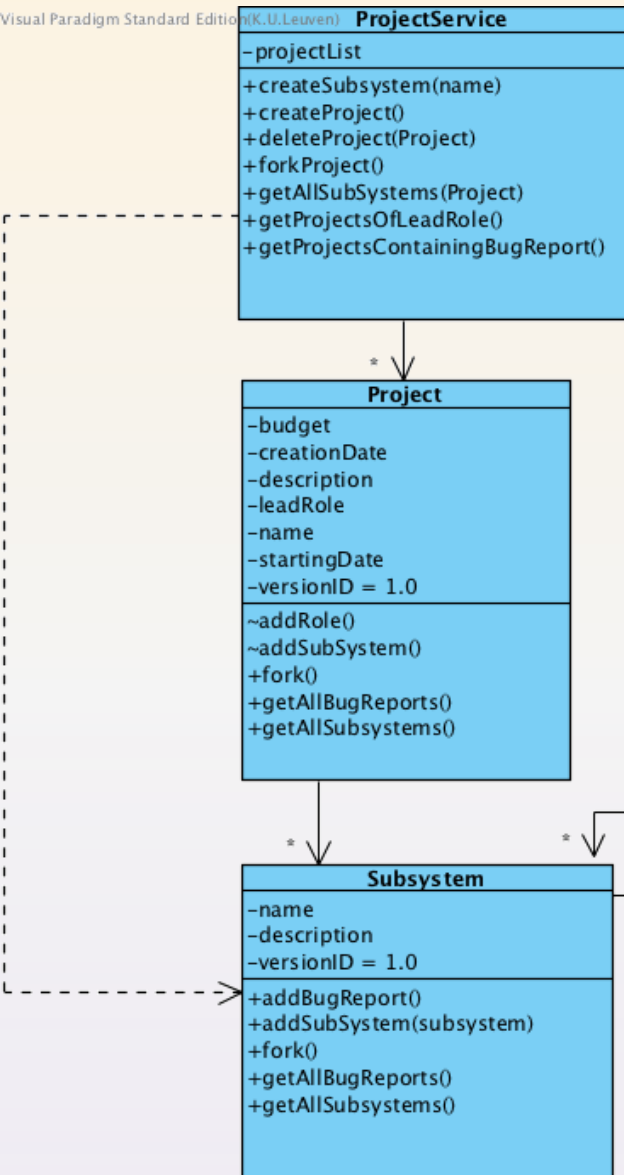
USERSERVICE:

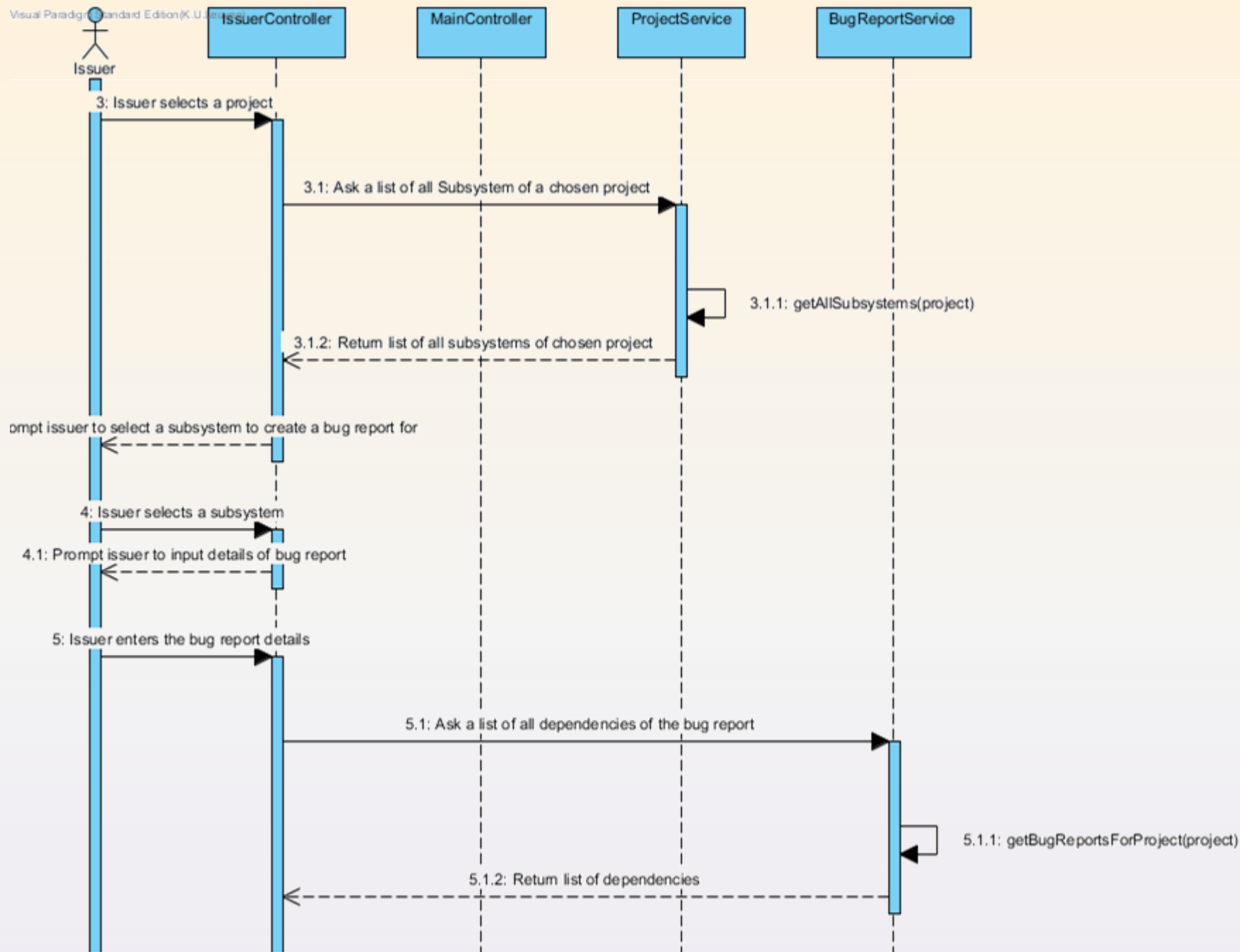
- Bevat creator voor users
 - Controle op unieke username
 - Bevat default constructor





BUGREPORTSERVICE & PROJECTSERVICE



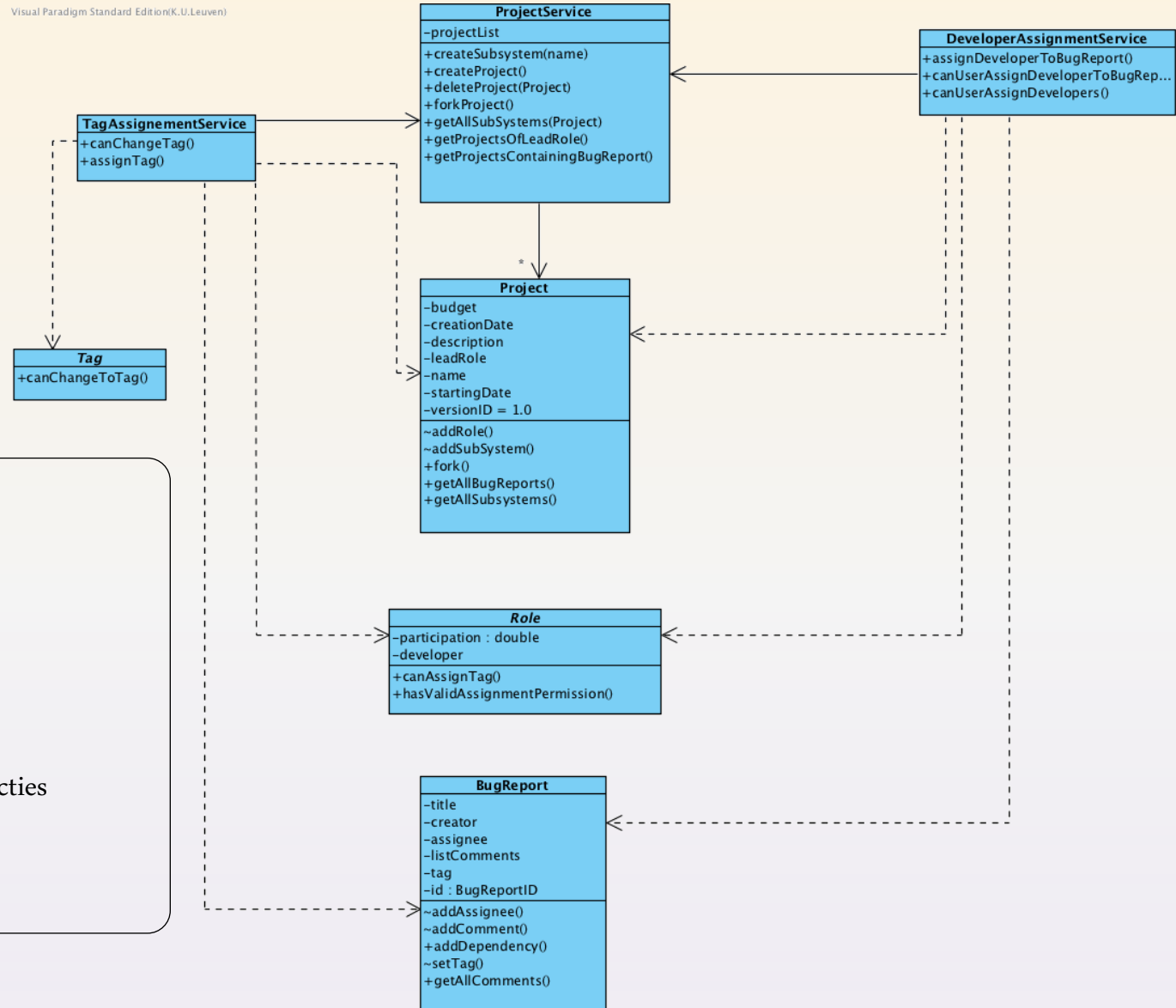


SERVICES TO KEEP TRACK OF LISTS

- Services bevatten functies om:
 - Lijsten opvragen (specifieke criteria)
 - Lijsten bewerken (enkel mogelijk door service)
 - Alsook communicatie met buitenwereld mogelijk te maken
- Lijsten gebruikt door services zijn **unmodifiable**

USAGE OF THE DOMAIN LAYER

Visual Paradigm Standard Edition (K.U.Leuven)



- Toekennen van Tags d.m.v. TagAssignmentService
- Toewijzen van developer d.m.v. DeveloperAssignmentService
- Nieuwe klasse voor speciale functies
→ pure fabrication

EXTENSIBILITY OF SYSTEM: CONTROLLER LAYER

- Flexibel toevoegen van use cases
- User type toevoegen gaat eenvoudig
- UI is onafhankelijk van domeinlaag
- Interface voor initializer maakt nieuwe beginsituaties eenvoudig te implementeren
- Eenvoudig om nieuwe tags toe te voegen
- Subsystems en Bugreports zijn onafhankelijk van Projects

POSSIBLE IMPROVEMENTS

- Klassen voor Admin, Issuer & Developer zijn overbodig
 - Functionaliteit in controller
- Vermijden dat tags van elkaar afweten
 - Nieuwe klasse voor overgangfunctionaliteit
- Opzoeken van bugreport implementeren m.b.v. strategy pattern
 - Interface “ISearch”
 - Resulteert in lagere koppeling in BugReportService

TESTING APPROACH

TWEE MOGELIJKHEDEN:

1. Test schrijven voor elke klasse in zelfde package
2. Via een hogere laag een lagere laag testen
 - Noodzakelijk wegens visibility constraints
 - Moeilijker wegens gelaagde hiërarchie

TEST STRATEGIE VOOR USE CASES:

- TestUI → IUI → vaste waarden voor elke use case → testen

TESTING APPROACH

Java - SWOP2016/Test/ProjectPackageTest/SubSystemTest.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer JUnit Structure

Finished after 0.703 seconds

Runs: 190/190 Errors: 0 Failures: 0

Outline Console History Call Hierarchy Coverage Git Staging

ProjectTest (15-Mar-2016 11:51:28)

Element	Coverage	Covered Instructions	Missed Instructions
SWOP2016	89.8 %	10,512	1,196
src	85.9 %	4,560	751
Controller	66.6 %	687	344
Model.BugReport	84.0 %	845	161
Model.Tags.TagTypes	47.1 %	73	82
Controller.UserController	95.7 %	1,570	70
Model.User	86.1 %	248	40
Model.Roles	77.8 %	133	38
CustomExceptions	25.0 %	4	12
Model.Wrapper	93.9 %	62	4
Model.Project	100.0 %	929	0
Model.Tags	100.0 %	9	0
Test	93.7 %	4,556	306
Test/ProjectPackageTest	90.9 %	1,396	139

UseCaseTests.DeveloperControllerTest.assignToBugReport [Runner: JUnit 4] (0.244 s)

UseCaseTests.AdminControllerTest.CreateProject [Runner: JUnit 4] (0.014 s)

SubSystemTest [Runner: JUnit 4] (0.005 s)

UseCaseTests.DeveloperControllerTest.updateBugReport [Runner: JUnit 4] (0.007 s)

UseCaseTests.AdminControllerTest.ForkProject [Runner: JUnit 4] (0.010 s)

BugReportsPackageTest.CommentTest [Runner: JUnit 4] (0.005 s)

UseCaseTests.DeveloperControllerTest.assignToProject [Runner: JUnit 4] (0.003 s)

UseCaseTests.AdminControllerTest.CreateSubSystem [Runner: JUnit 4] (0.011 s)

UserPackageTest.IssueTest [Runner: JUnit 4] (0.005 s)

BugReportsPackageTest.BugReportIDTest [Runner: JUnit 4] (0.008 s)

UserPackageTest.UserServiceTest [Runner: JUnit 4] (0.005 s)

TheDateTest [Runner: JUnit 4] (0.007 s)

UseCaseTests.LoginTest [Runner: JUnit 4] (0.006 s)

UserPackageTest.AdminTest [Runner: JUnit 4] (0.004 s)

BugReportsPackageTest.DeveloperAssignmentServiceTest [Runner: JUnit 4] (0.008 s)

UserPackageTest.DeveloperTest [Runner: JUnit 4] (0.002 s)

UseCaseTests.IssueControllerTest.InspectBugReport [Runner: JUnit 4] (0.018 s)

UseCaseTests.IssueControllerTest.CreateBugReport [Runner: JUnit 4] (0.012 s)

UserPackageTest.UserTest [Runner: JUnit 4] (0.002 s)

BugReportsPackageTest.BugReportTest [Runner: JUnit 4] (0.031 s)

UseCaseTests.AdminControllerTest.DeleteProject [Runner: JUnit 4] (0.004 s)

UseCaseTests.UserControllerTest.ShowProject [Runner: JUnit 4] (0.006 s)

BugReportsPackageTest.TagAssignmentServiceTest [Runner: JUnit 4] (0.008 s)

Failure Trace

Windows taskbar: 11:52 15/03/2016

VRAGEN?



PROJECT MANAGEMENT (IN UREN)

KARINA KARAPETYAN

Group work: 33 Individual Work: 22 Study: 7

LAURENS CLEEMPUT

Group work: 33 Individual Work: 19 Study: 8

TOM HOUBEN

Group work: 33 Individual Work: 20 Study: 6

TRI TRAN

Group work: 33 Individual Work: 25 Study: 8

ROLES

	ITERATIE 1	ITERATIE 2
DESIGN COORDINATOR	KARINA KARAPETYAN LAURENS CLEEMPUT	TOM HOUBEN KARINA KARAPETYAN
TESTING COORDINATOR	TRI TRAN	LAURENS CLEEMPUT
DOMAIN COORDINATOR	TOM HOUBEN	TRI TRAN