

The background features a faint, light gray grid. Overlaid on this grid is a complex network of gray lines and rectangular boxes, representing a task network or dependency graph. The lines connect various nodes (boxes) in a hierarchical and branching manner, with some lines ending in arrowheads. The overall structure suggests a flow or sequence of tasks, with some paths being more direct than others. The title 'SWOP – TaskMan iteratie 2' is prominently displayed in the center, partially overlapping the network lines.

# SWOP – TaskMan iteratie 2

Door Tim Van Den Broecke,  
Joran Van de Woestijne,  
Vincent Van Gestel en  
Eli Vangrieken

# Inleiding

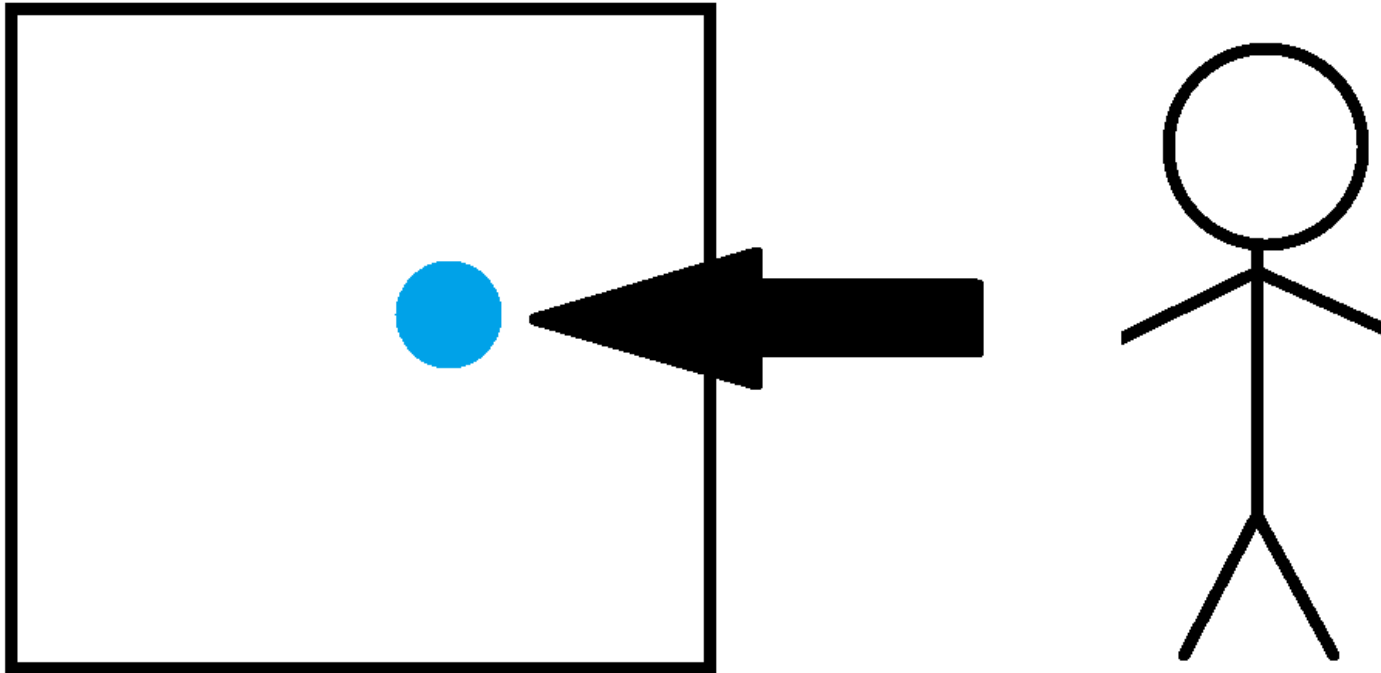
1.Refactoring iteratie 1

2.Design overzicht

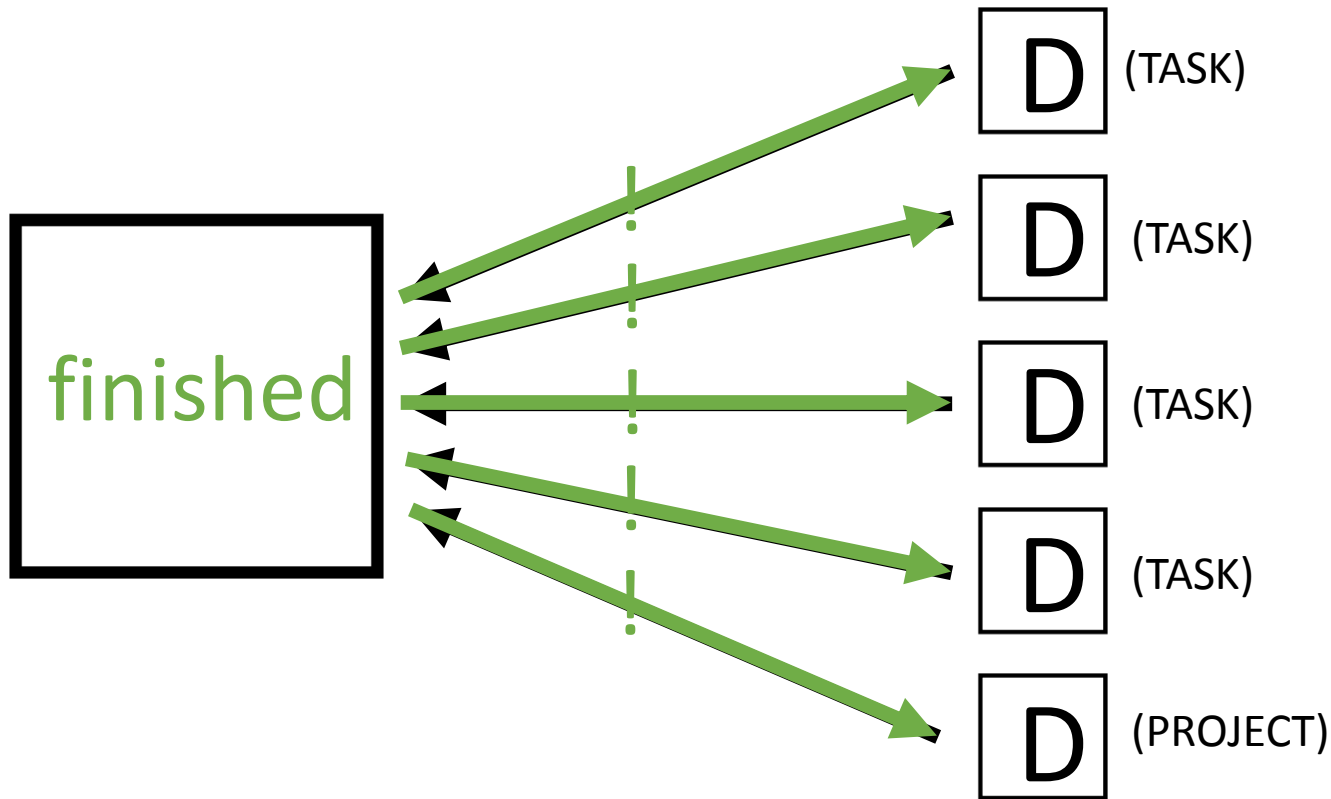
3.Domain strength

4.Testing

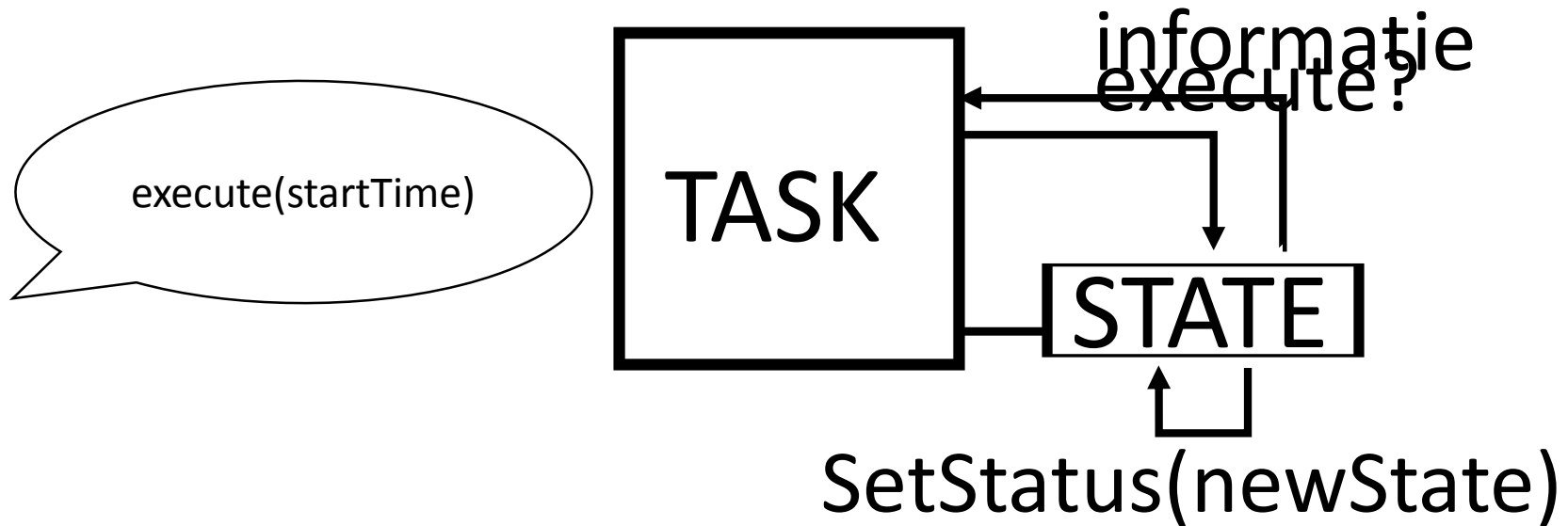
# Refactoring iteratie 1- Views



# Refactoring iteratie 1- Observer



# Refactoring iteratie 1- State



# T-Man file updates

```
68 ### TMAN UPDATE ###
69 # A system will have a user logged in at init
70 currentUser:
71   - name : "admin"
72
73 projects:
74   - name      : "project x"
75     description : "a project description"
76     creationTime : "2014-01-01 09:00" # YYYY-MM-DD HH:MM
77     dueTime     : "2014-02-01 18:00"
78
79   - name      : "project y"
80     description : "another project description"
81     creationTime : "2014-01-01 09:00"
82     dueTime     : "2016-01-01 18:00"
83
84   - name      : "project z"
85     description : "yet another project description"
86     creationTime : "2015-04-25 09:00"
87     dueTime     : "2015-04-30 18:00"
88
89 plannings:
90   - plannedStartTime : "2014-01-01 09:00"
91     developers       : [0, 1]
92     ### TMAN UPDATE ###
93     # Plannings needn't know about required resources, tasks do
94   - plannedStartTime : "2014-01-02 17:00"
95     developers       : [1]
96   - plannedStartTime : "2014-03-01 09:00"
97     developers       : [2]
98     ### TMAN UPDATE ###
99     # Added a new planning for convenience
100   - plannedStartTime : "2014-01-01 10:00"
101     developers       : [2]
```

# T-Man file updates

```
67
68 ### TMAN UPDATE ###
69 # A system will have a user logged in at init
70 currentUser:
71   - name : "admin"
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73 projects:
74   - name      : "project x"
75     description : "a project description"
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94   - plannedStartTime : "2014-01-02 17:00"
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97     developers       : [2]
98     ### TMAN UPDATE ###
99     # Added a new planning for convenience
100   - plannedStartTime : "2014-01-01 10:00"
101     developers       : [2]
```

# T-Man file updates

```
100 - plannedStartTime : "2014-01-01 10:00"
101   developers       : [2]
102
103 tasks:
104   # projects and tasks are incrementally numbered starting with the number 0
105 - project           : 0
106   description        : "task description"
107   estimatedDuration  : 500
108   acceptableDeviation: 50
109   alternativeFor      :
110   prerequisiteTasks   :
111   ### TMAN UPDATE ###
112   # during task creation, required resources and their quantity should be specified
113   requiredResources  : [{type: 0, quantity: 2}, {type: 2, quantity: 1}]
114   planning            : 0
115   # a task can be finished, failed, executing or unspecified (i.e. ongoing)
116   status              : finished
117   # These time stamps are only required if a task is finished or failed
118   startTime           : "2014-01-01 10:00"
119   endTime             : "2014-01-02 17:00"
120
121 - project           : 1
122   description        : "another task description"
123   estimatedDuration  : 50000
124   acceptableDeviation: 50
125   alternativeFor      :
126   prerequisiteTasks   :
127   requiredResources  :
128   planning            : 1
129   ### TMAN UPDATE ###
130   # Original status was available, but no executing in system yet, so for completion
131   status              : executing
132   # An executing task requires an actual start time
133   startTime           : "2014-01-02 17:00"
134
```

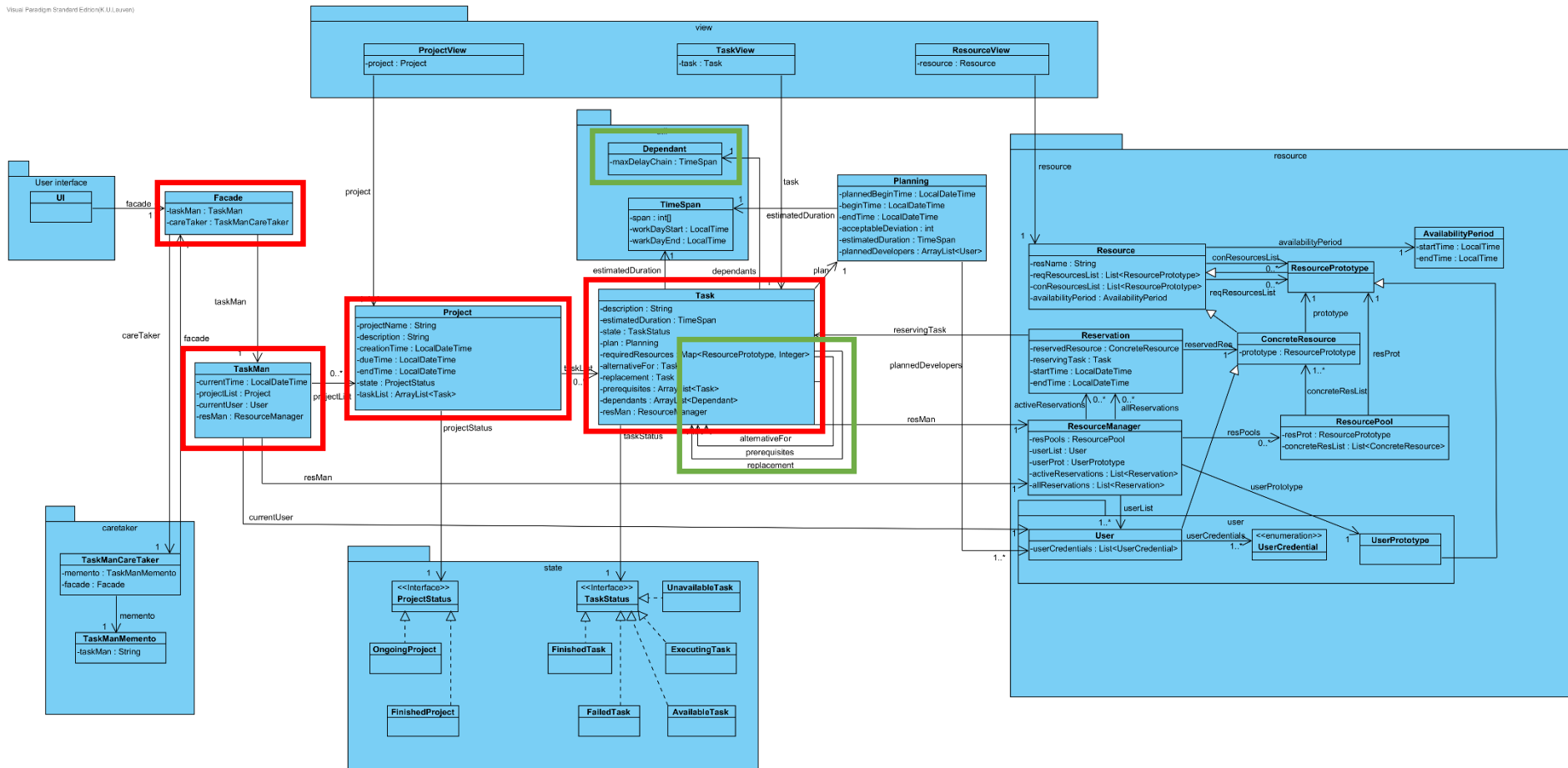


# T-Man file updates

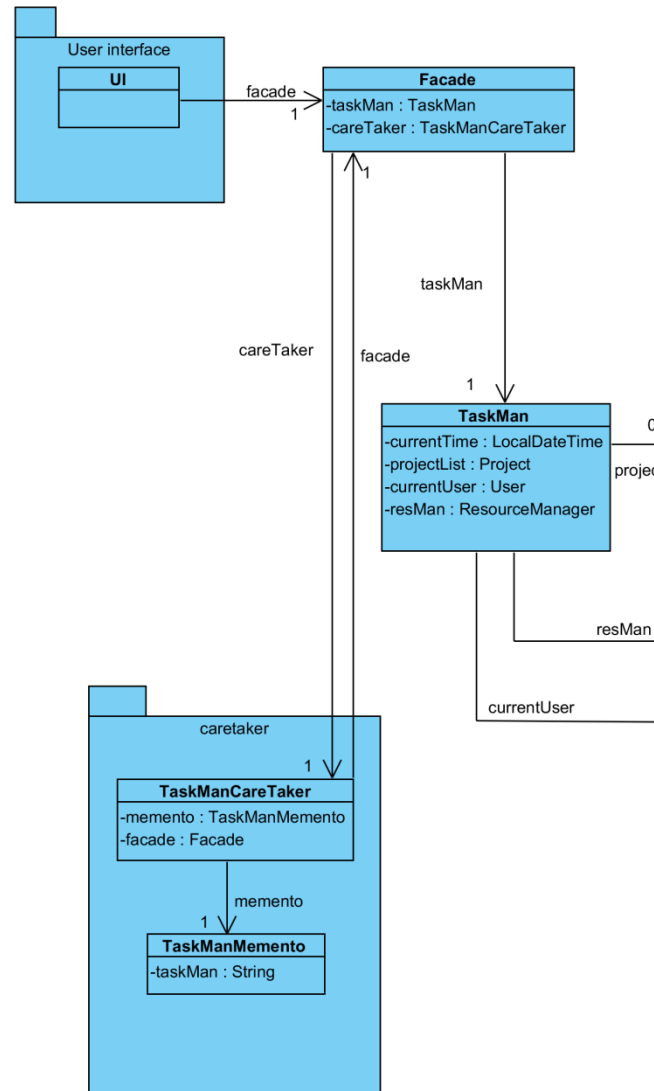
```
139     alternativeFor      :
140     prerequisiteTasks    :
141     requiredResources    :
142     planning             :
143     status               :
144
145 - project                : 1
146   description            : "task 3's description"
147   estimatedDuration      : 5000
148   acceptableDeviation    : 0
149   alternativeFor         :
150   prerequisiteTasks      : [ 1, 2 ]
151   requiredResources      :
152   planning               :
153   ### TMAN UPDATE ###
154   # original status was failed, impossible to fail unavailable tasks
155   status                 :
156
157 - project                : 1
158   description            : "task 4's description"
159   estimatedDuration      : 50000
160   acceptableDeviation    : 0
161   ### TMAN UPDATE ###
162   # Task 3 is no longer failed, so 3 as alternative is impossible
163   alternativeFor         :
164   prerequisiteTasks      : [ 1, 2 ]
165   requiredResources      : [{type: 5, quantity: 1}]
166   planning               : 2
167   ### TMAN UPDATE ###
168   # Original status was executing, yet an unavailable task can execute
169   status                 :
170
171 - project                : 2
172   description            : "task 5's description"
173   estimatedDuration      : 500
```

# Het Design – overzicht

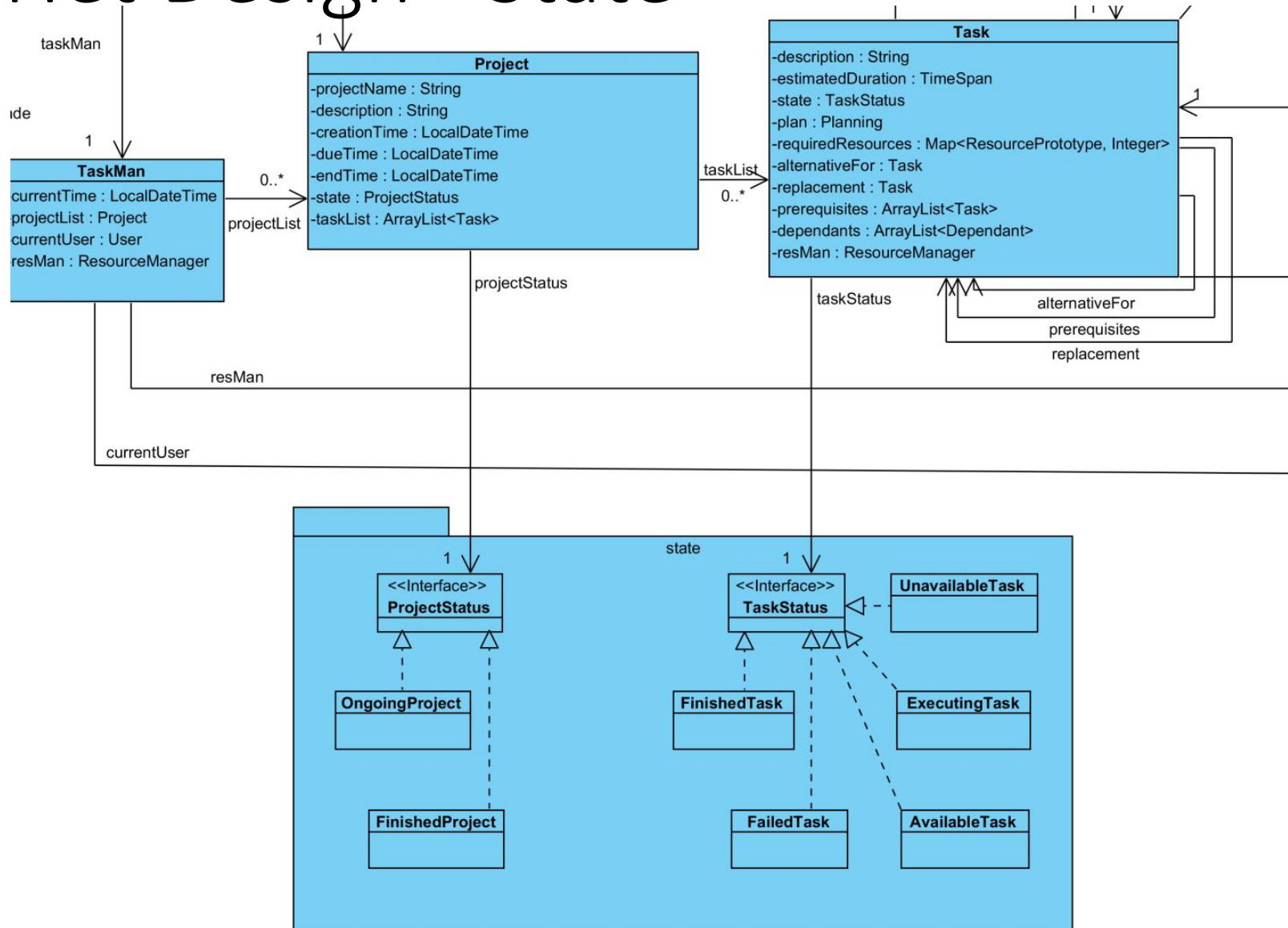
Visual Paradigm Standard Edition (K.U. Leuven)



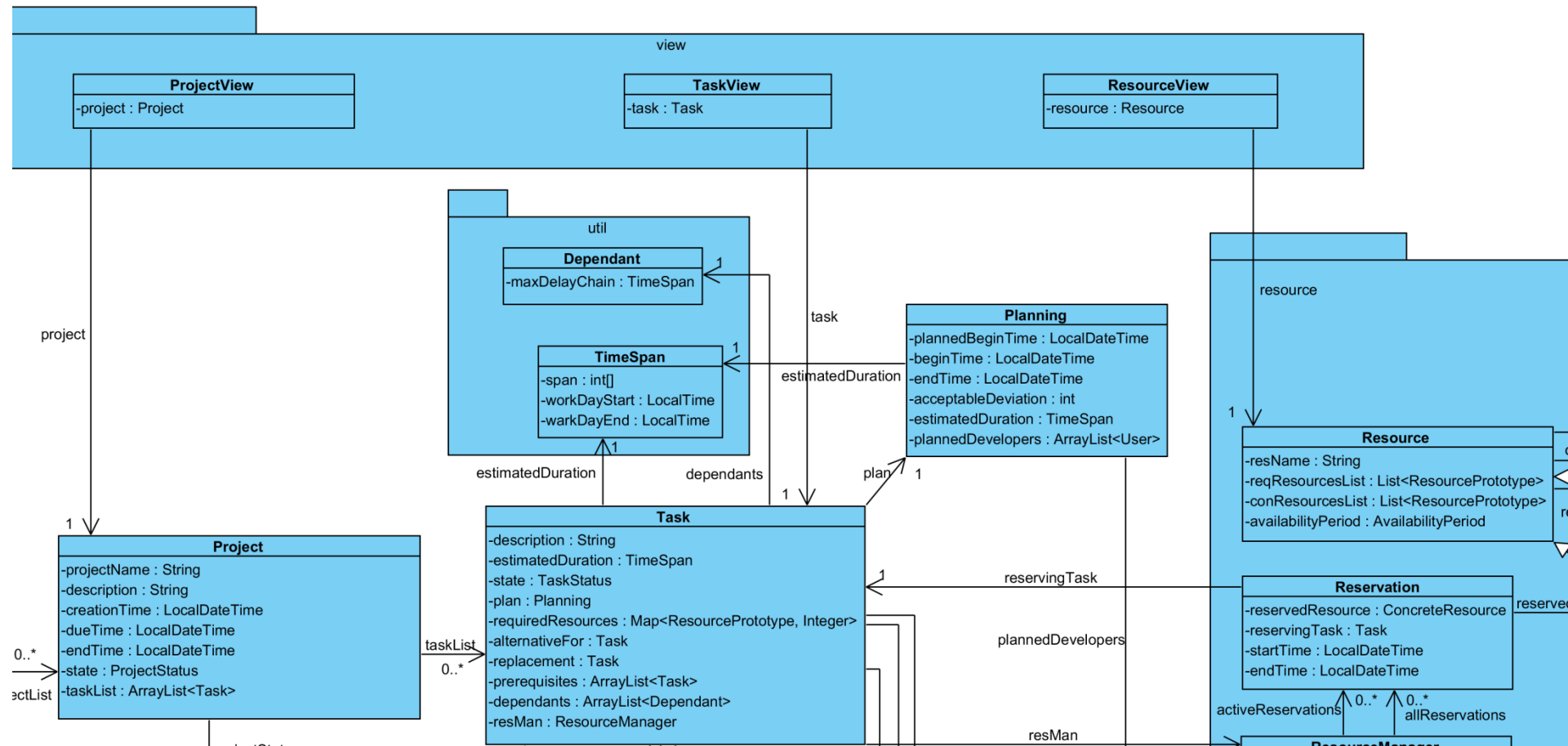
# Het Design – Memento CareTaker



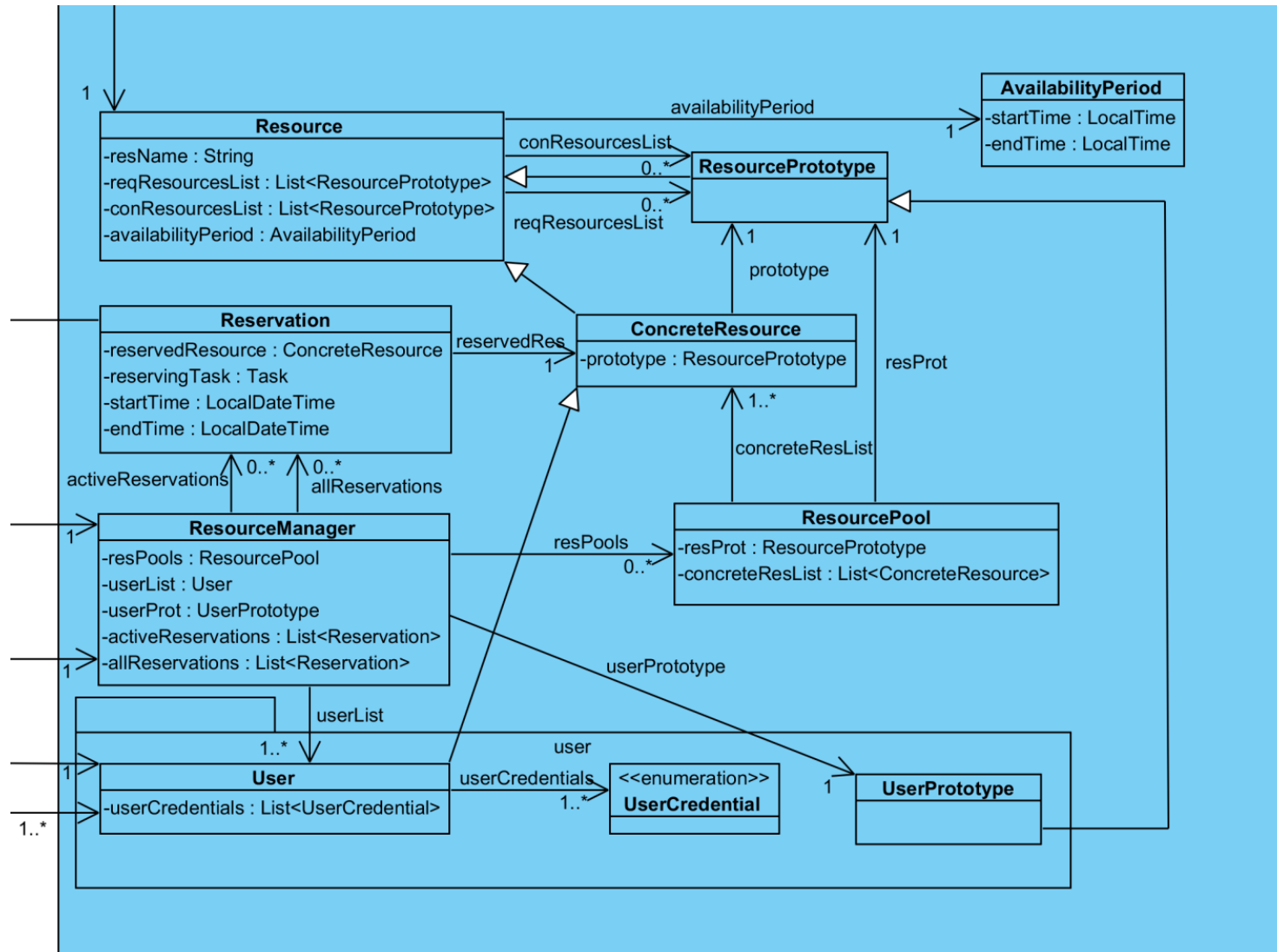
# Het Design - State



# Het Design – Views & Planning

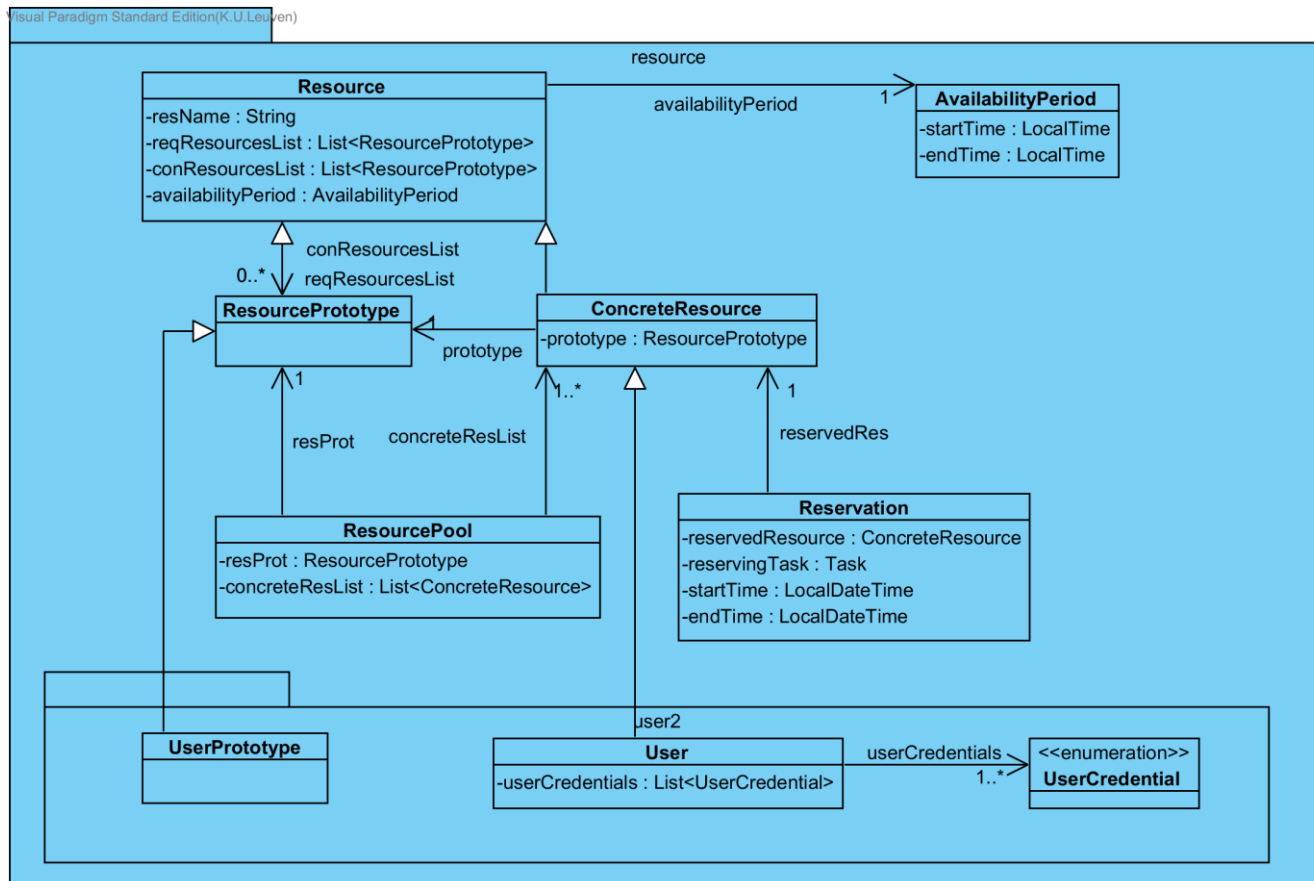


# Het Design - Resources



# Het Domein – Uitbreidbaarheid

## Resources zijn zeer Generiek



# Het Domein – Robuustheid

## **Low coupling**

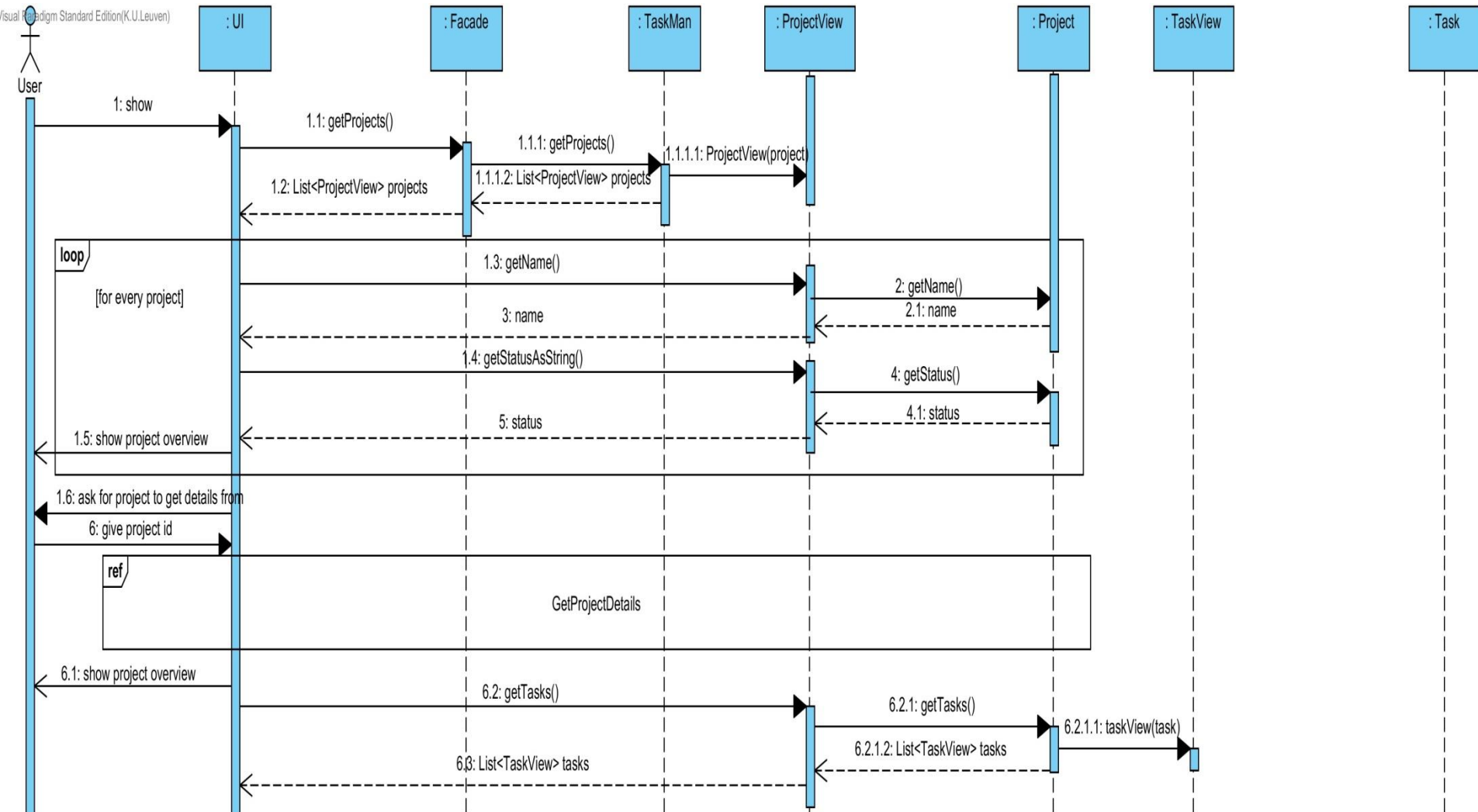
System afscherming door  
views

## **Plan task use-case**

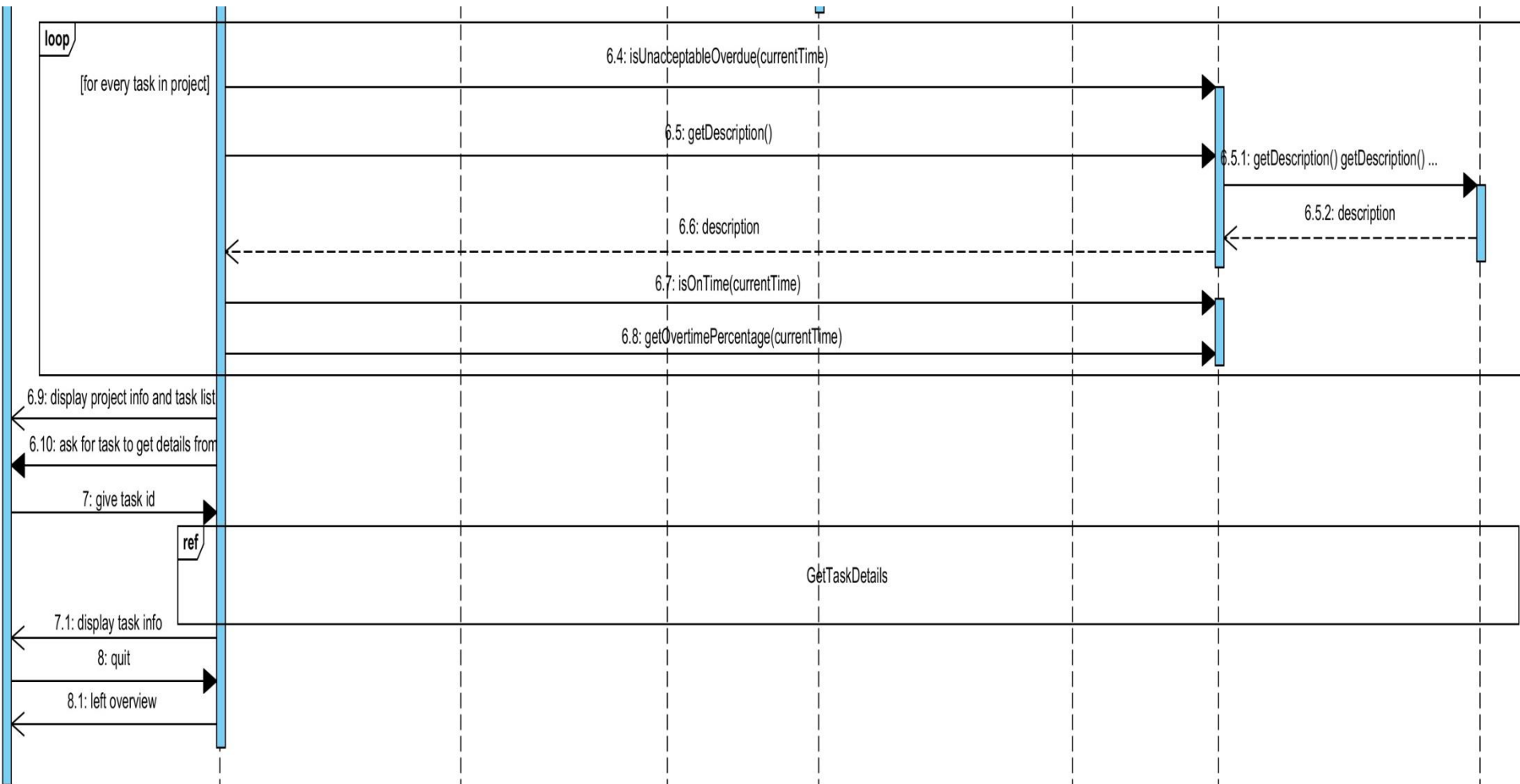
System suggesties altijd  
veilig



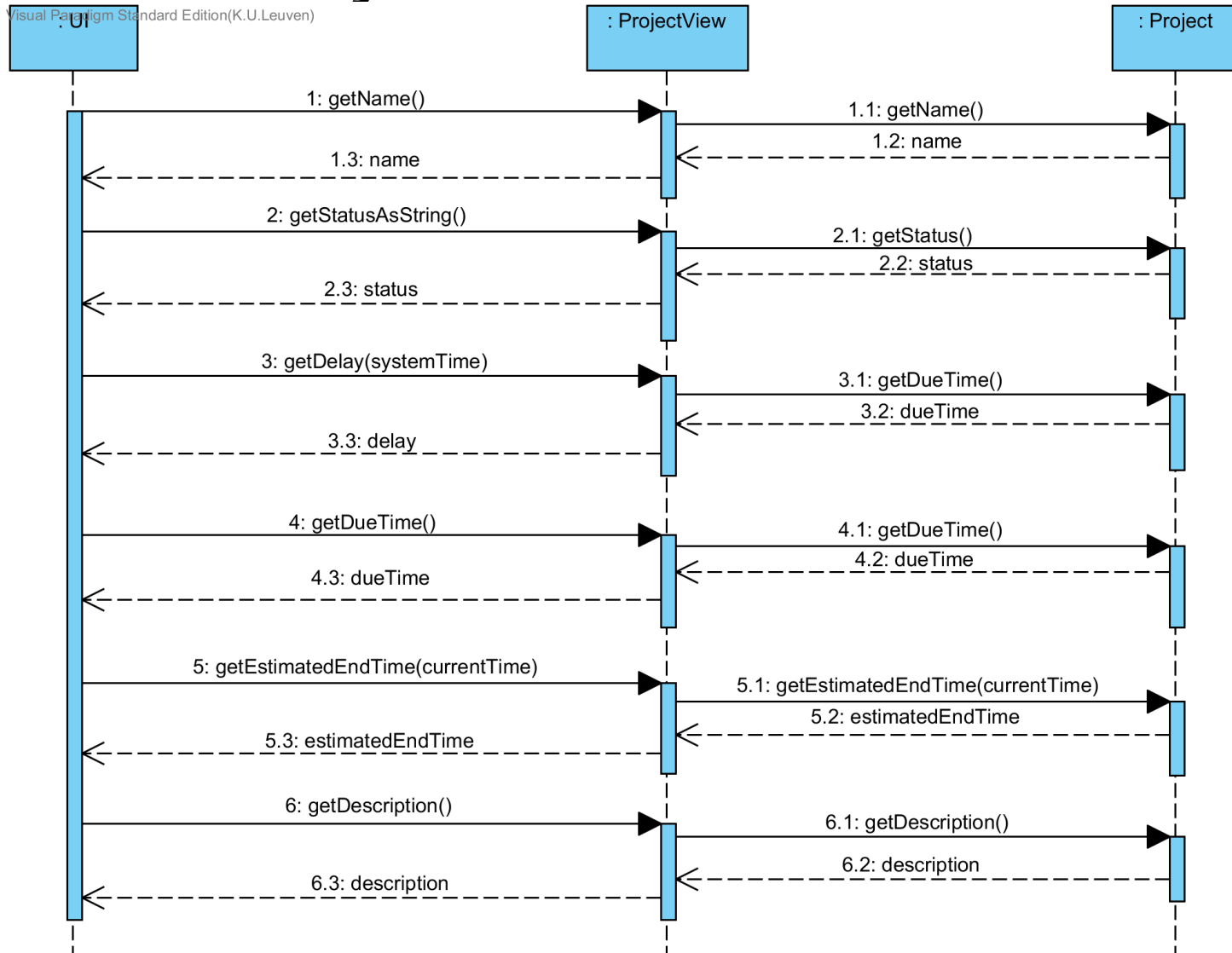
# UC1: Show Projects



# UC1: Show Projects part 2

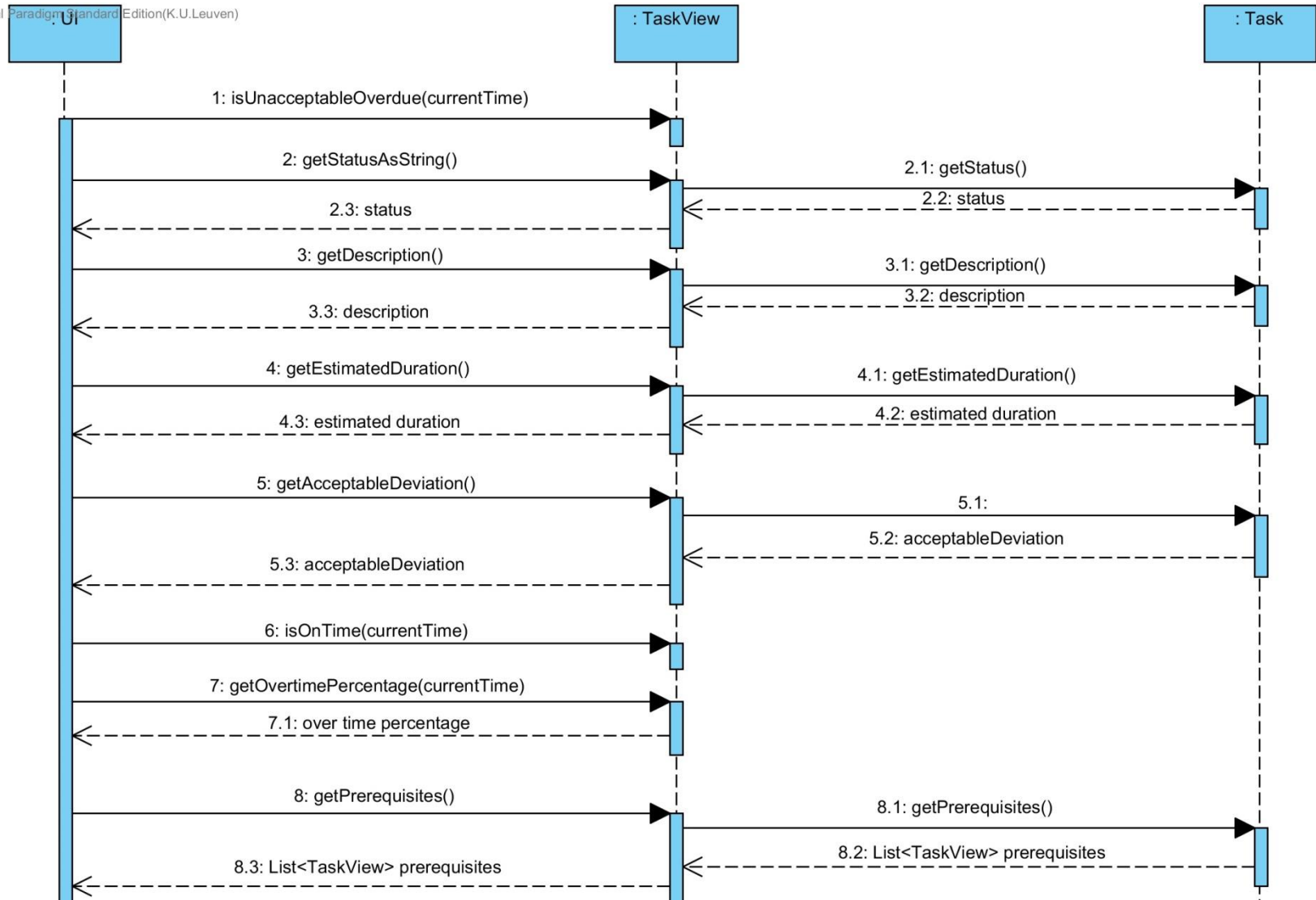


# UC1: Project Details

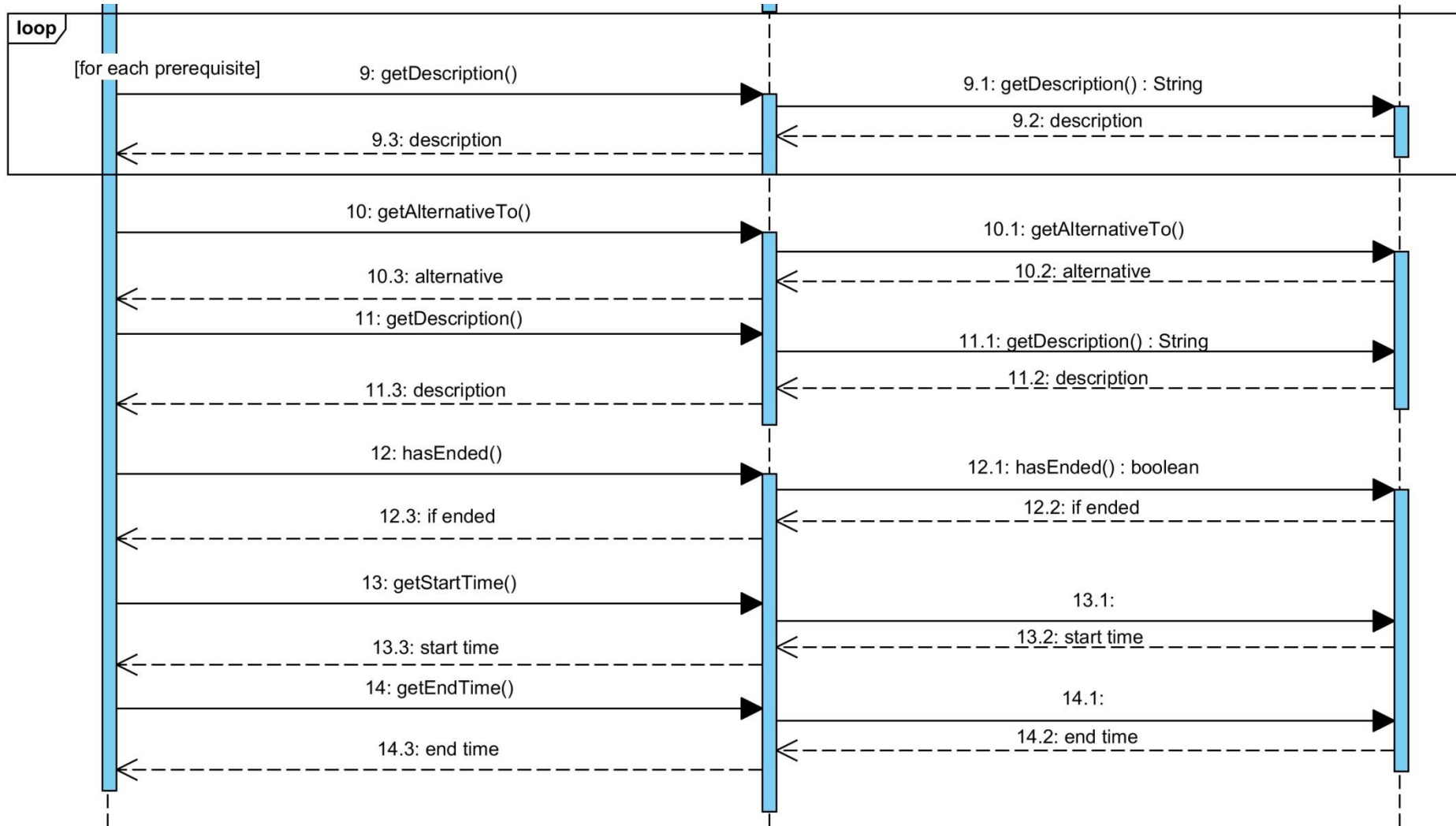


# UC1: Task Details part 1

/visual Paradigm Standard Edition(K.U.Leuven)

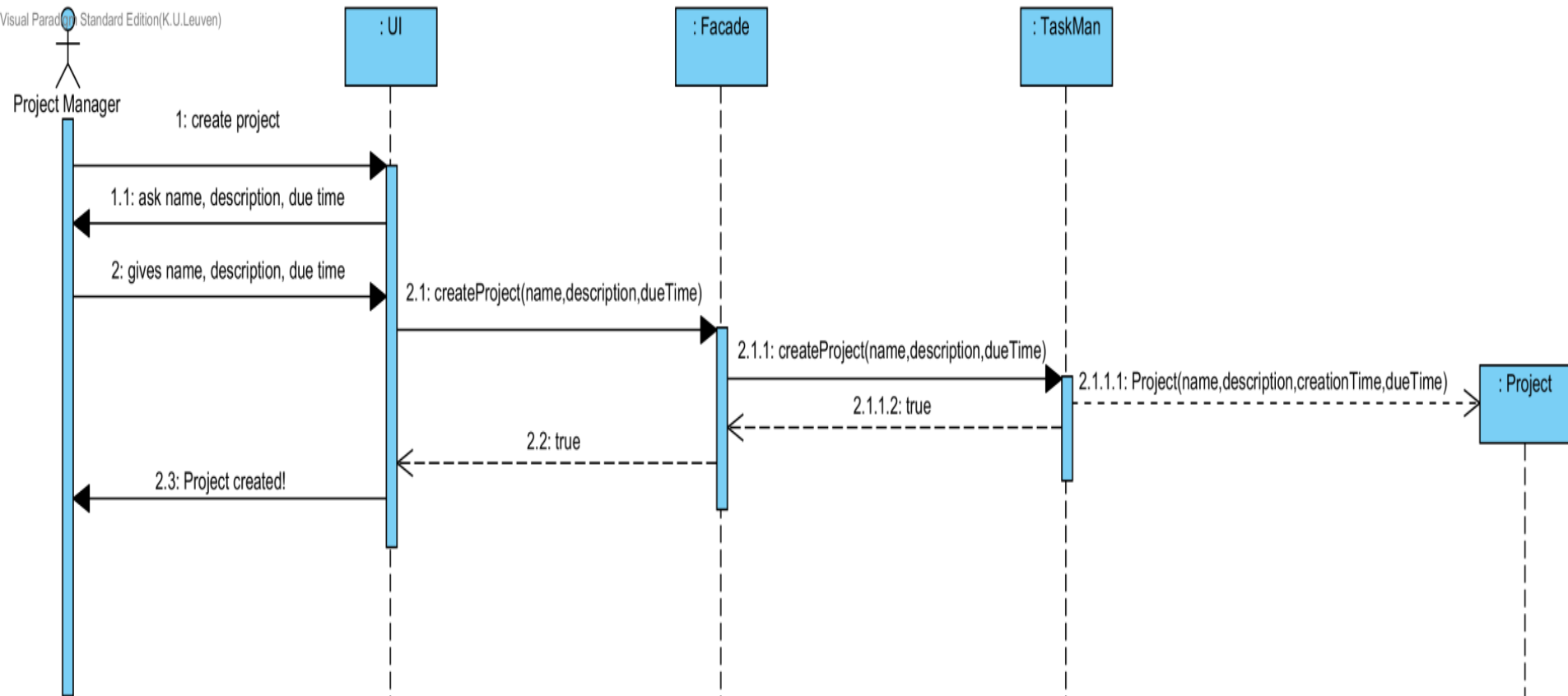


# UC1: Task Details part 2

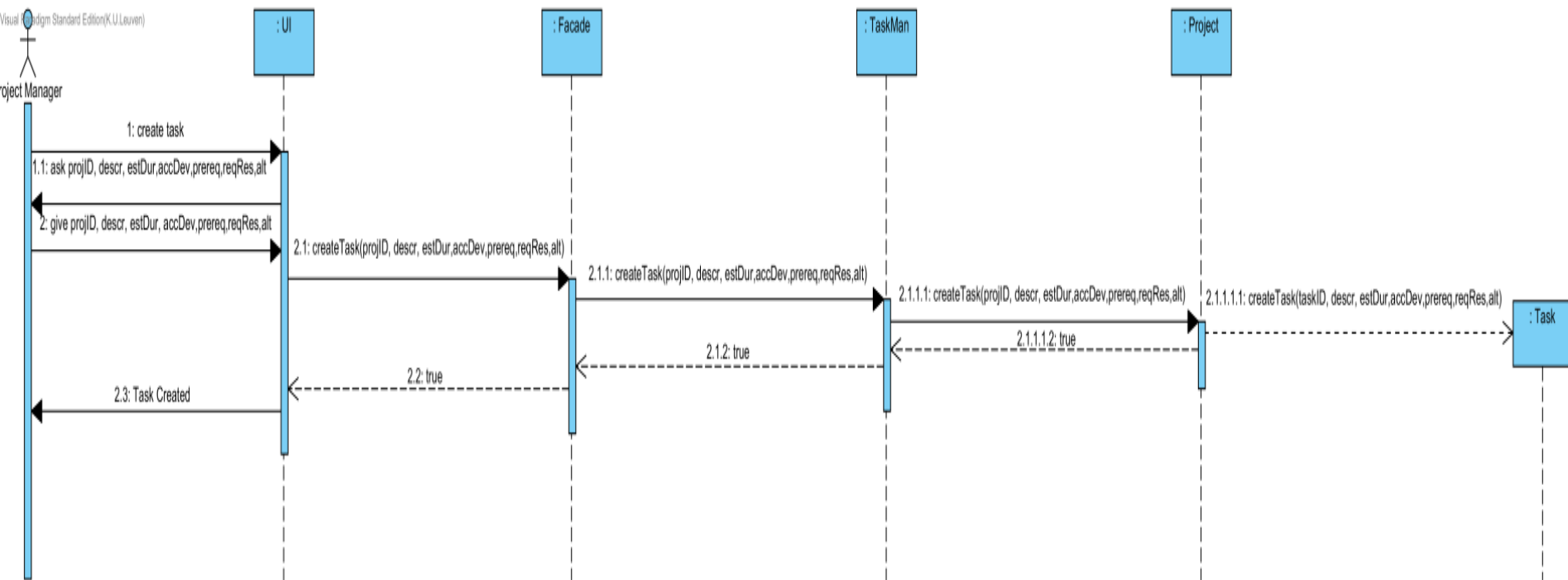


# UC2: Create Project

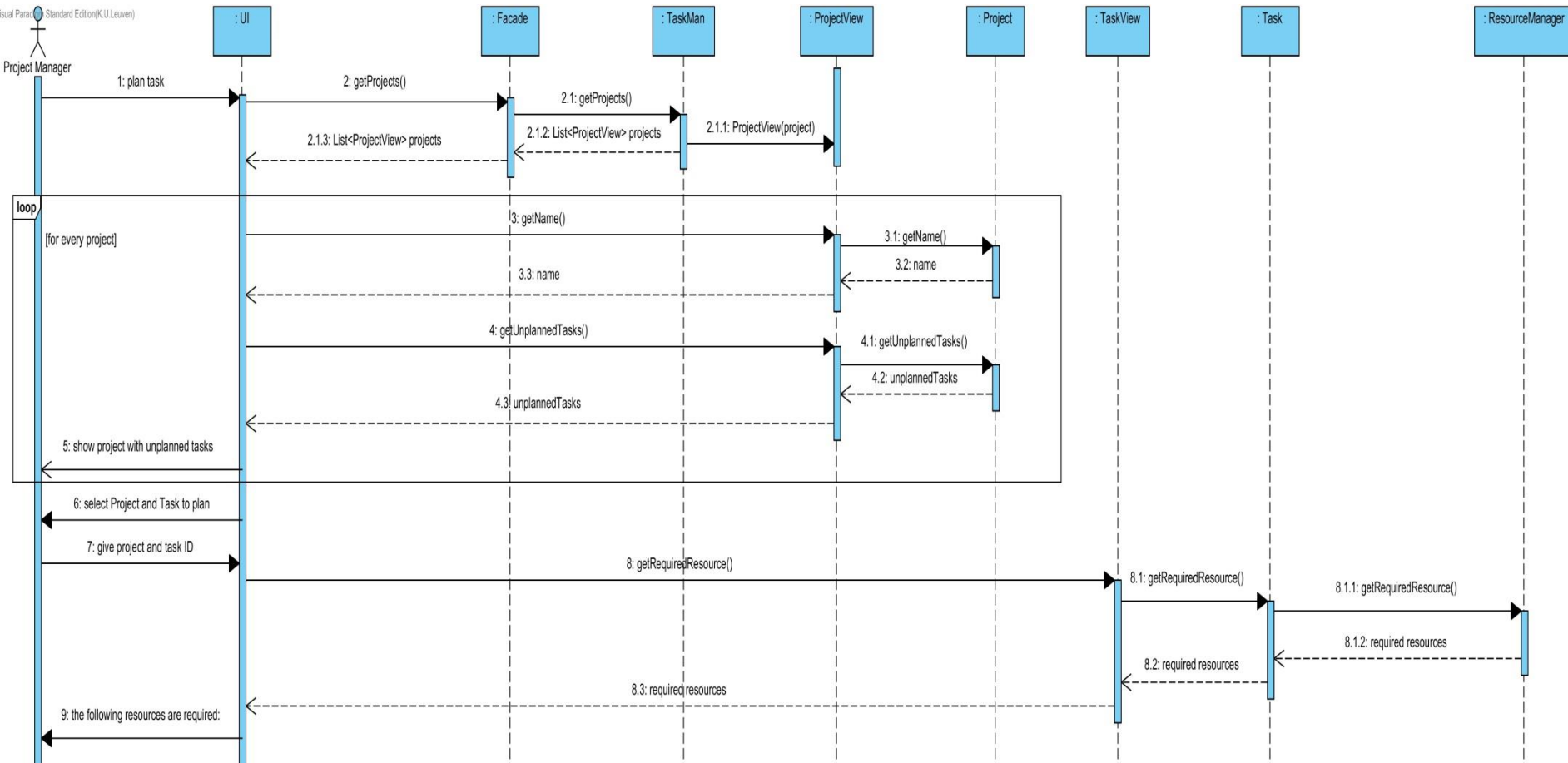
Visual Paradigm Standard Edition(K.U.Leuven)



# UC3: Create Task

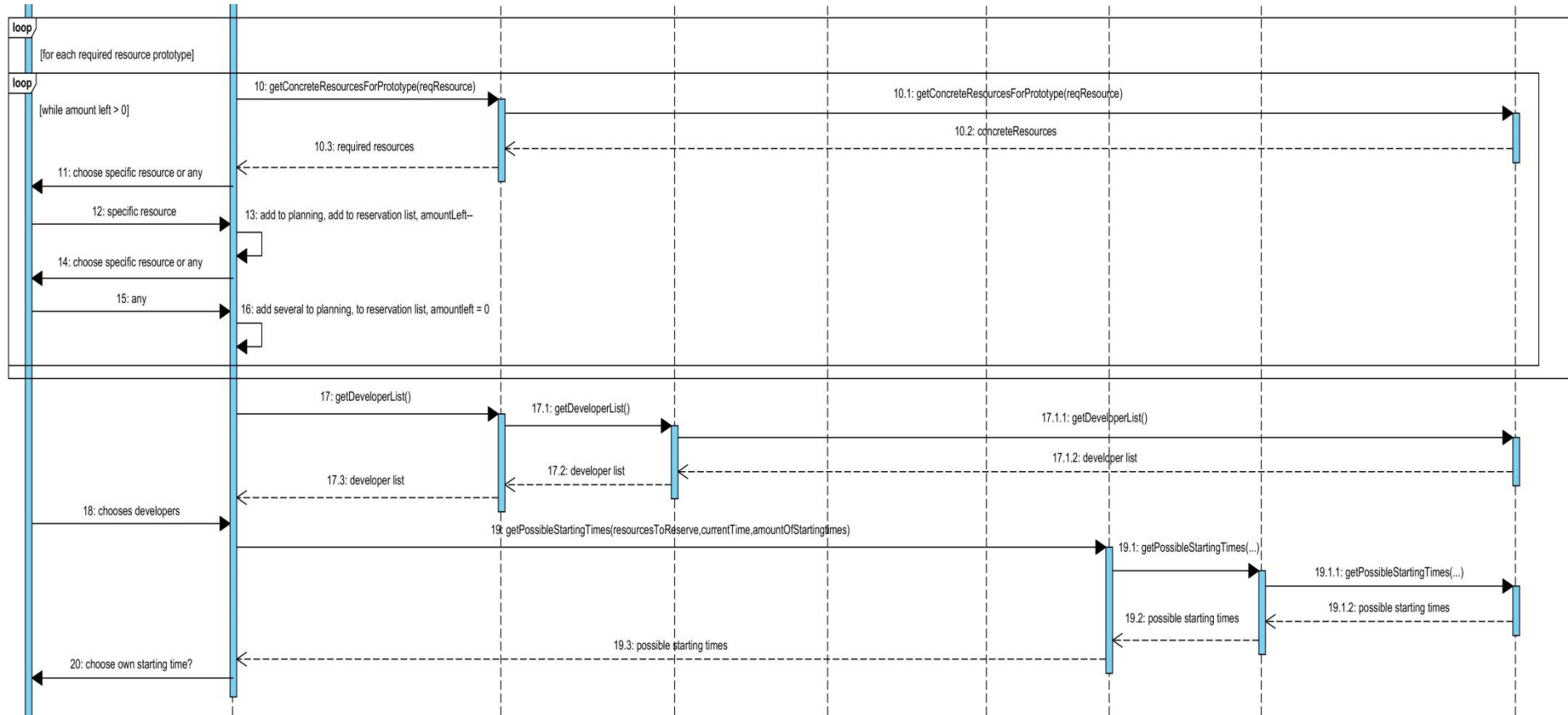


# UC4: Plan Task

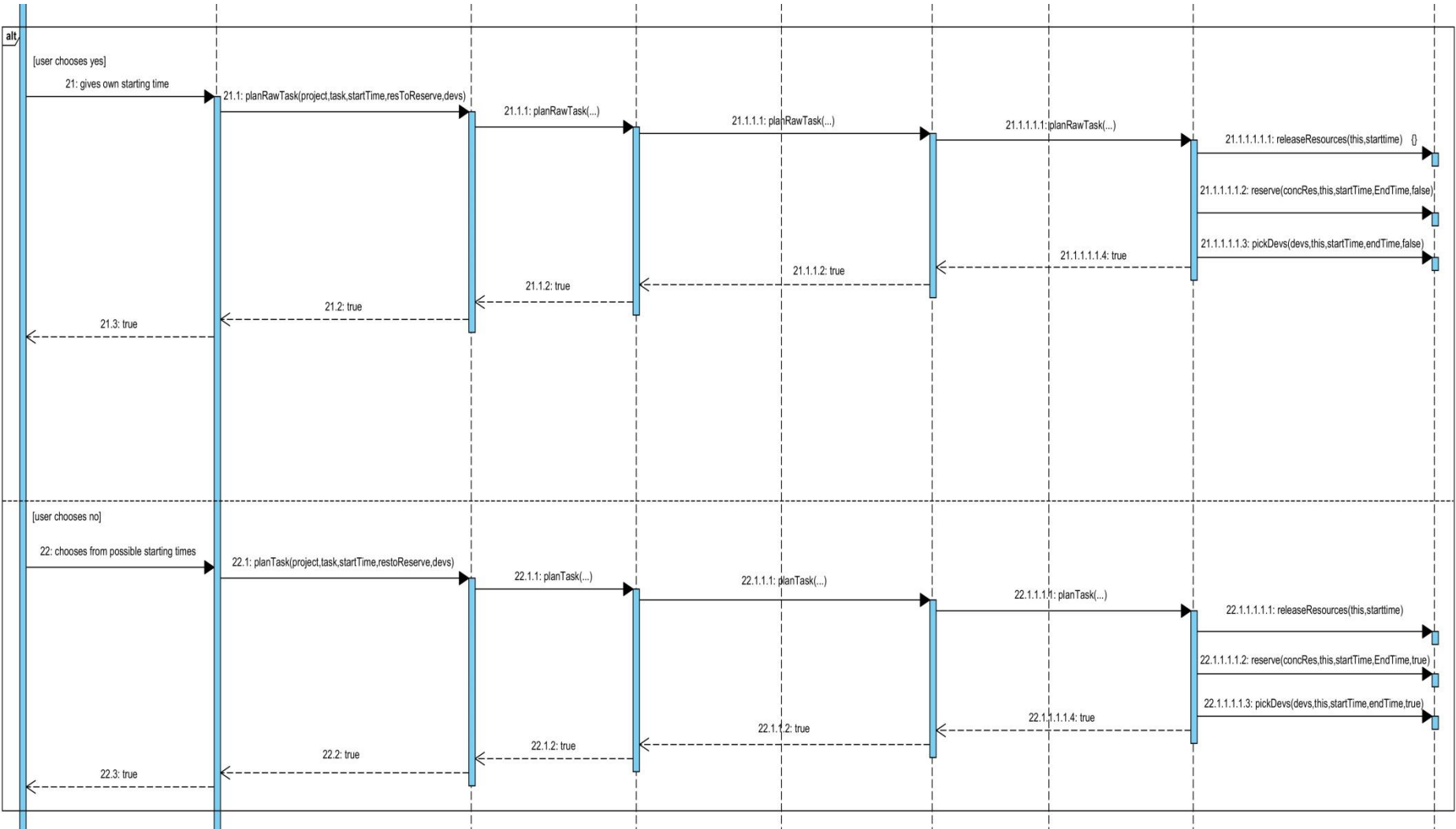




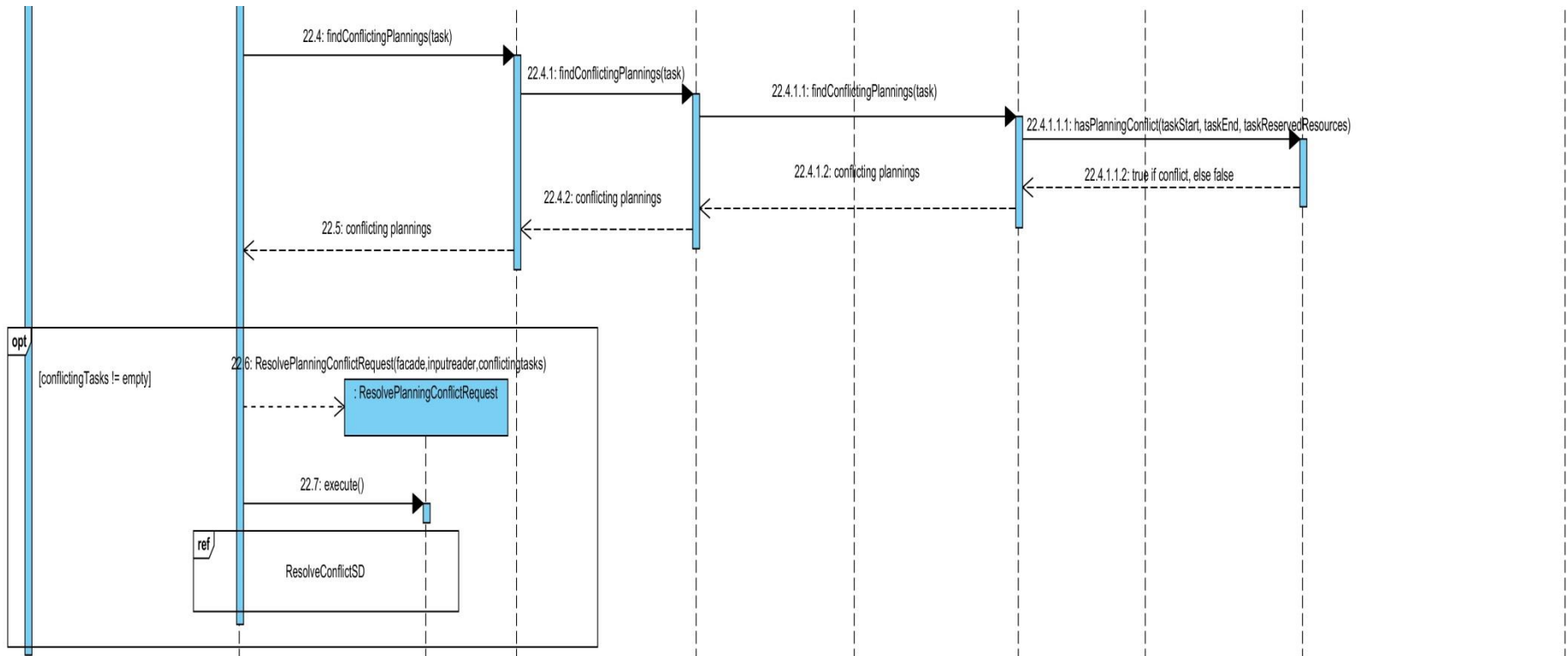
# UC4: Plan Task part 2



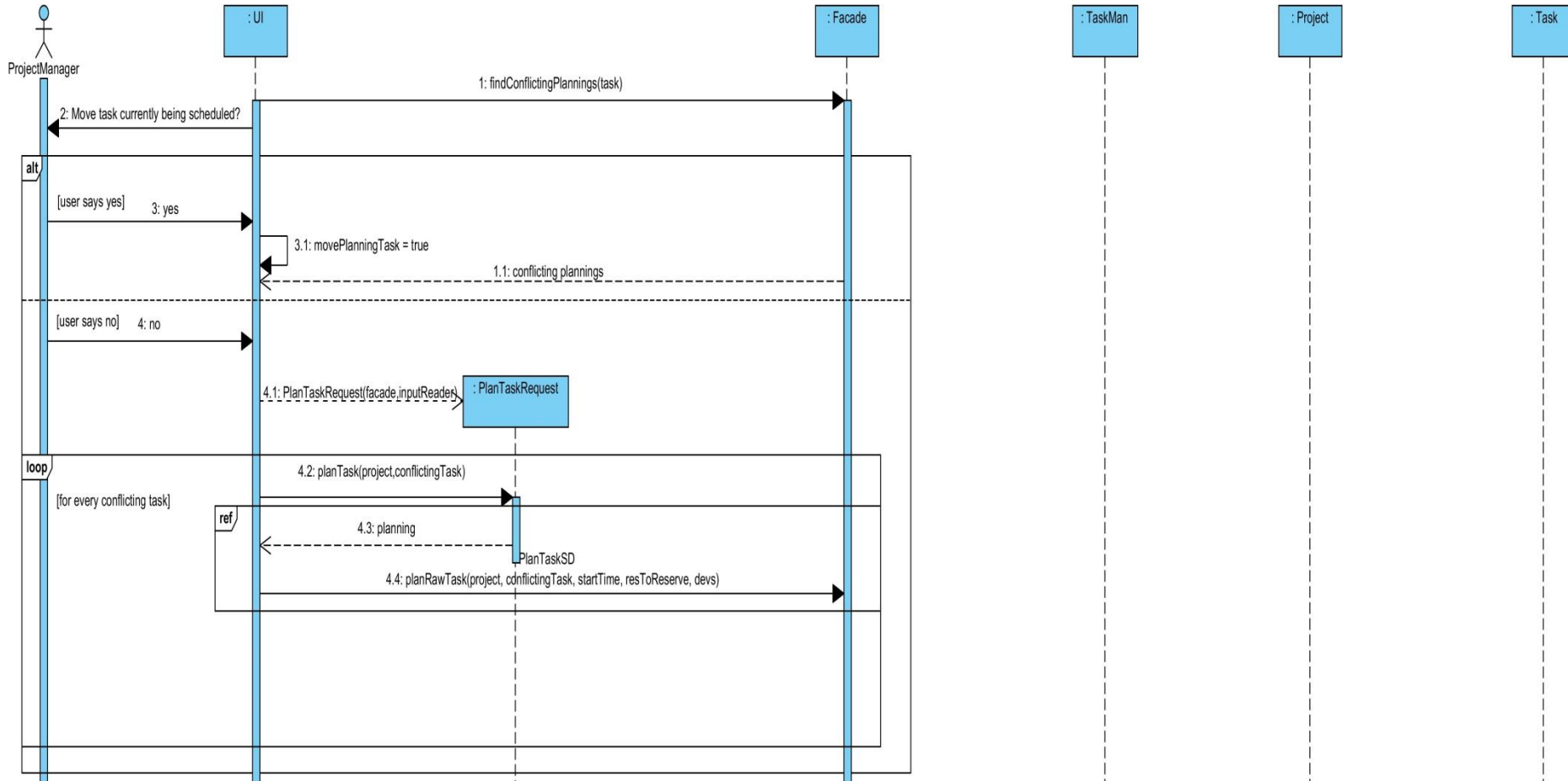
# UC4: Plan Task part 3



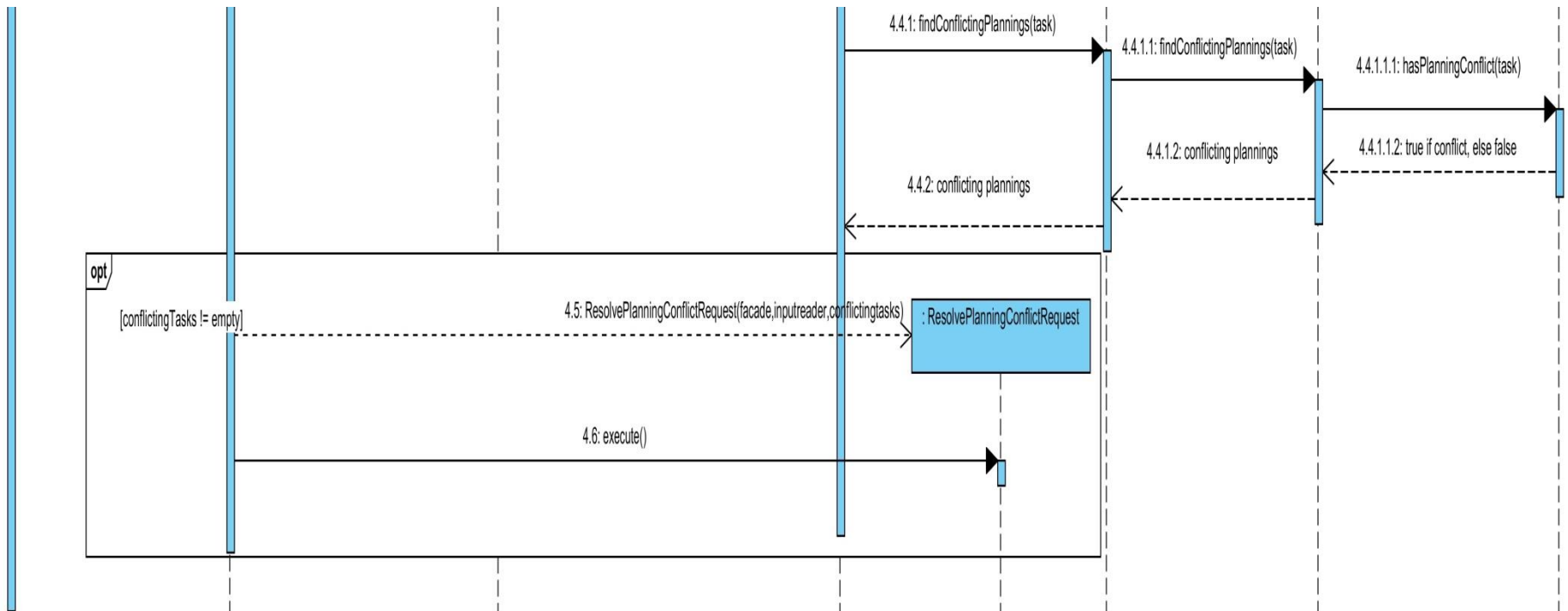
# UC4: Plan Task part 4



# UC5: Resolve Conflict

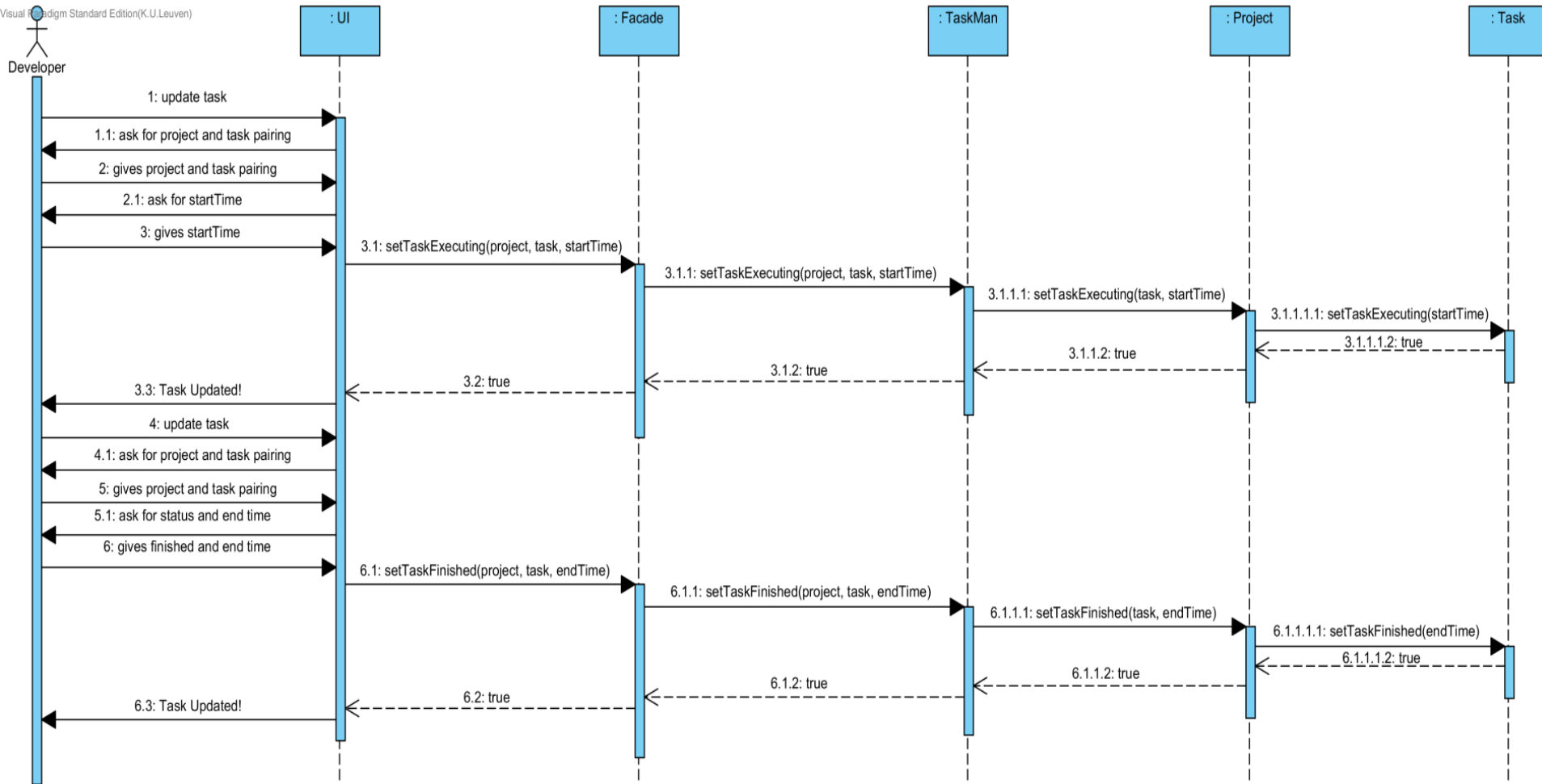


# UC5: Resolve Conflict part2



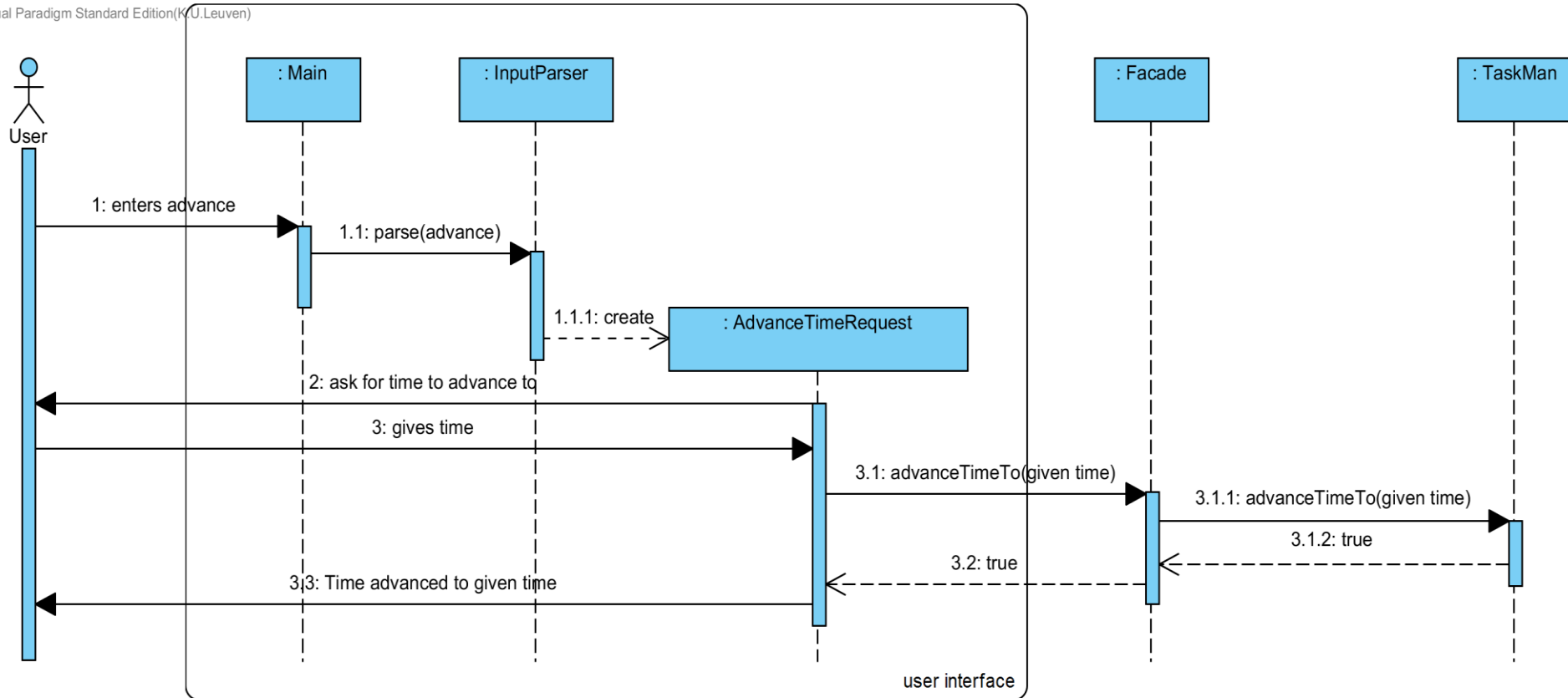
# UC6: Update Task Status

Visual Paradigm Standard Edition(K.U.Leuven)

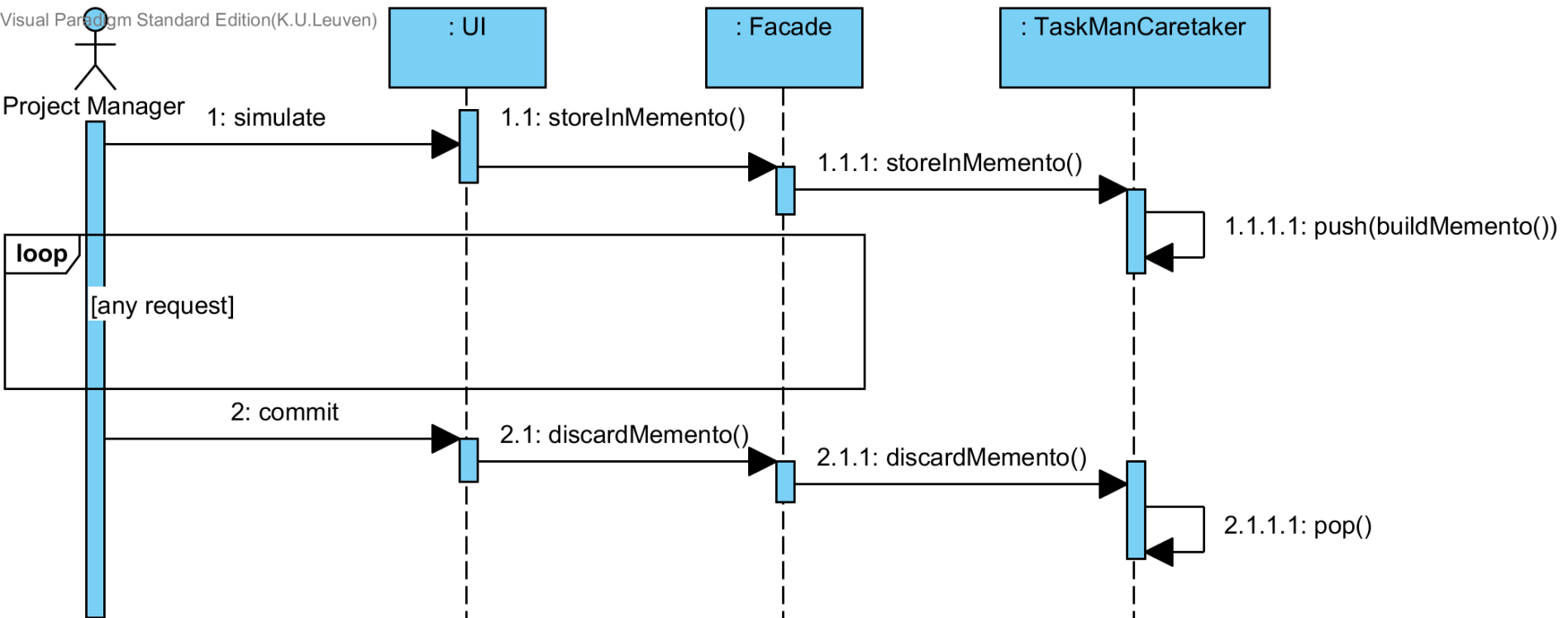


# UC7: Advance Time

Visual Paradigm Standard Edition(K.U.Leuven)

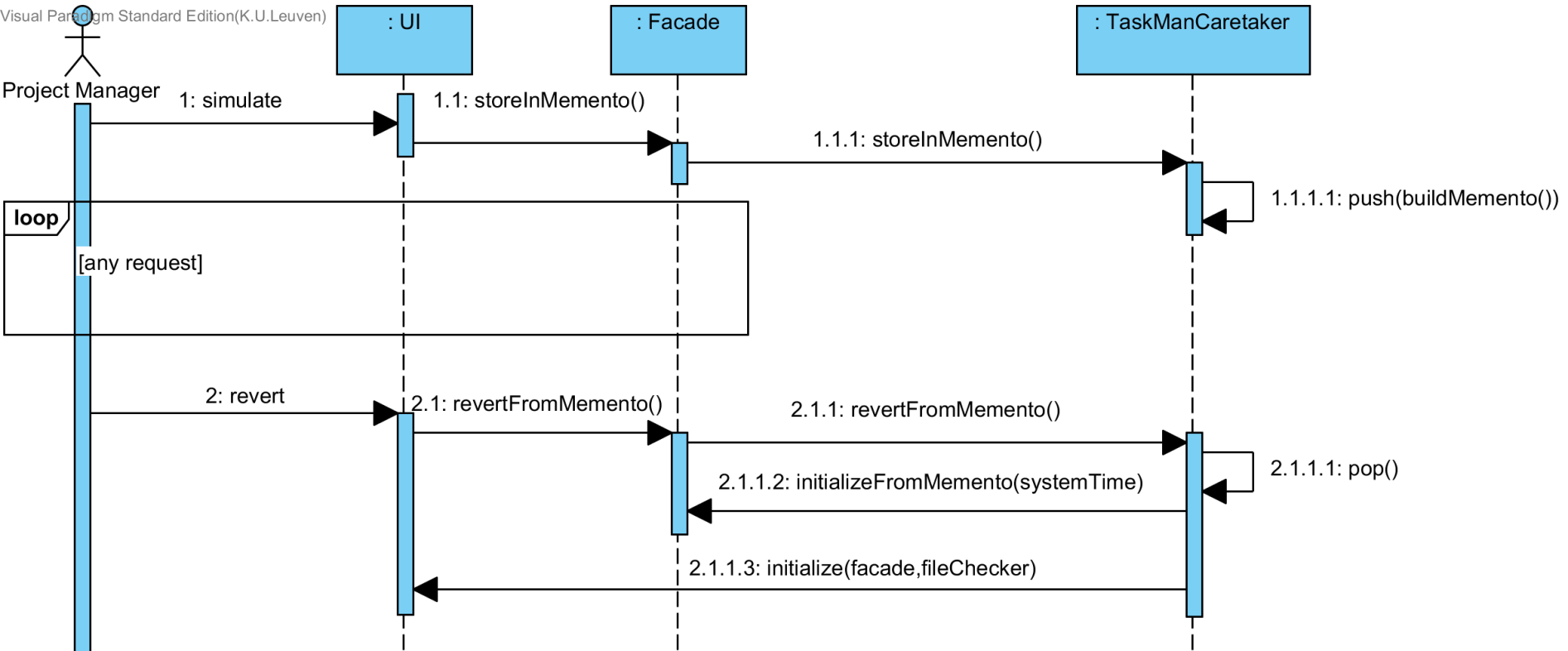


# UC8: Simulation Commit





# UC8: Simulation Revert



# Testing

# Testing - Testsuite

*Demonstratie*

# Werkverdeling

Format: (Estimated) group / individual / study

- Vincent Van Gestel: Wildcard now, Design coordinator Next  
70/40/12
- Joran Van de Woestijne: Domain coordinator now, Testing coordinator Next  
70/10/10
- Tim Van Den Broecke: Design coordinator now, Wildcard Next  
70/30/10
- Eli Vangrieken: Testing coordinator now, Domain coordinator Next  
70/30/10