

# Software-Ontwerp

## Iteratie 2

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KU Leuven

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# Inhoud

## 1 Inleiding

- Rolverdeling
- Werkverdeling

## 2 Het ontwerp

- MVC
- Grid
- Obstacles
- States and Penalty

## 3 System State Diagrams

- Start New Game

- Move

- Move

- Pick Up Item

- Pick Up Item

- Use Item

- Use Item

- End Turn

- End Turn

## 4 Slot

# Inleiding

Thema's die aan bod komen:

- High-Level bespreking van het ontwerp.
- Onderdelen in detail bekeken.
- GRASP en design patterns.
- Uitbreidbaarheid van het ontwerp.
- Test cases.

# Rolverdeling

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- 2 Het ontwerp
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  - States and Penalty
- 3 System State Diagrams

- Start New Game
- Move
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- Pick Up Item
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- Use Item
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- End Turn
- End Turn

- 4 Slot

# Rolverdeling

## Iteratie 2:

- Lead Designer: Dieter Castel
- Lead Tester: Vincent Reniers

## Iteratie 3:

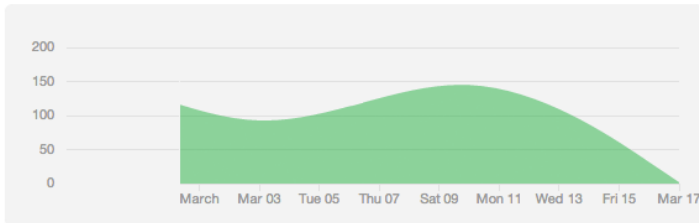
- Lead Designer: Jonas Devlieghere
- Lead Tester: Stefan Pante
- Domain Modeler: Vincent Reniers

# Werkverdeling

## Iteratie 2: 1 maart - 15 maart

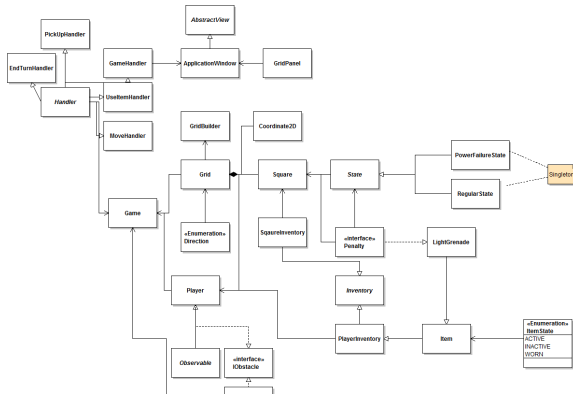
**February 10th 2013 - March 17th 2013**

Commits to master, excluding merge commits

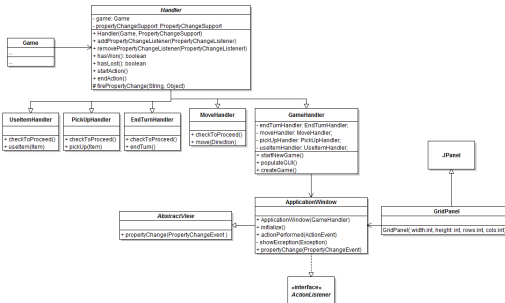
Contribution Type: **Commits** ▼

## MVC

## MVC



# Handlers and view





# Handlers and view

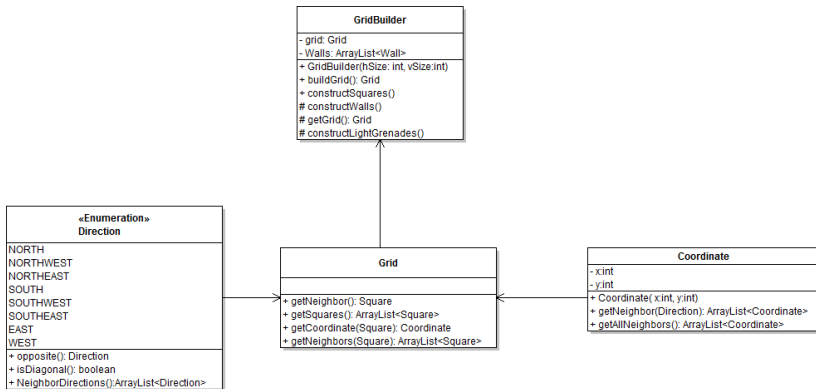
## MVA (Model-View-Adapter)

- Model en View communiceren niet rechtstreeks
- Handlers zijn **mediating controllers**
- *ApplicationWindow* implementeert *PropertyChangeListener*

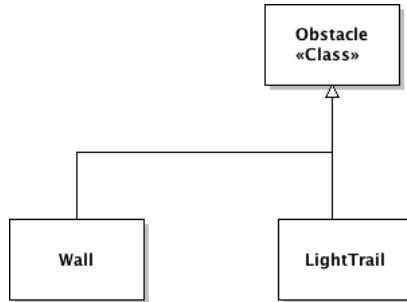
## Handlers

- Handler voor elke Use-Case
- Geen GUI controller meer

# Grid



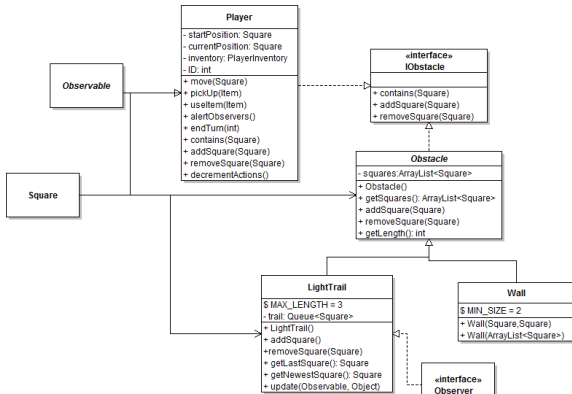
# Obstacle interface



# Obstacle

- Interface *IObstacle*
  - Abstracte klasse *Obstacle* implementeert *IObstacle*
    - *LightTrail* implementeert *Obstacle*
    - *Wall* implementeert *Obstacle*
  - *Player* implementeert *IObstacle*
  - *Square* kan *Obstacle* bevatten
- LightTrail implementeert de *Observer* interface.

# Obstacle

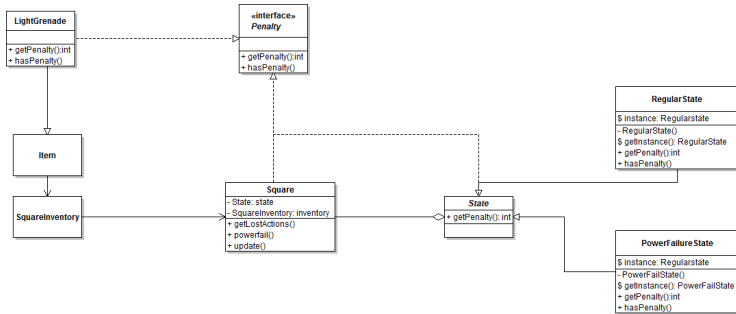


# States and Penalty

- State Pattern
  - Square heeft meerdere toestanden: *RegularState*, *PowerFailureState*
  - Square zorgt voor overgang van staat
- Chain of Responsibility (Command)
  - State bepaalt eigen penalty
  - LightGrenade bepaalt eigen penalty
  - Square is eigenaar van concept penalty

## States and Penalty

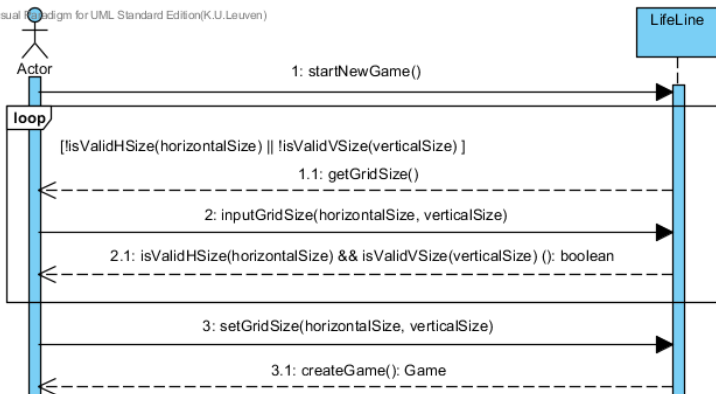
## States and Penalty



Start New Game

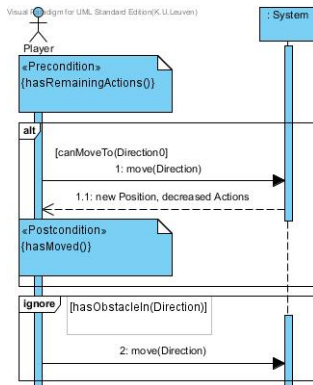
# Start New Game

Visual Paradigm for UML Standard Edition(K.U.Leuven)



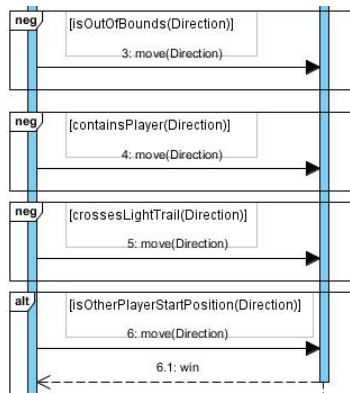


# Move deel 1



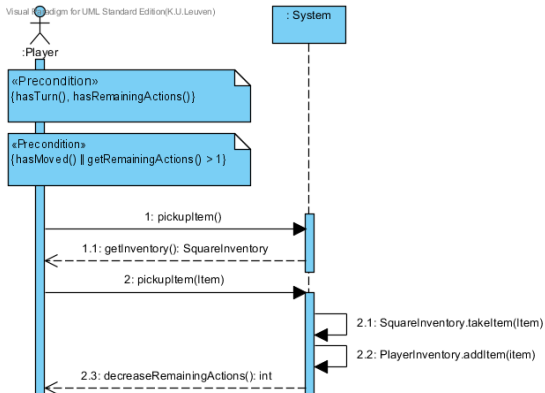
## Move

## Move deel 2



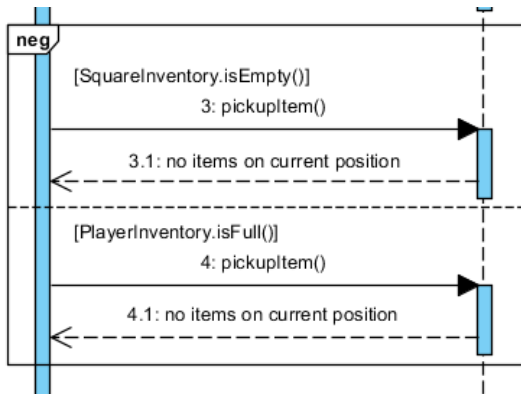
## Pick Up Item

# Pick Up Item deel 1

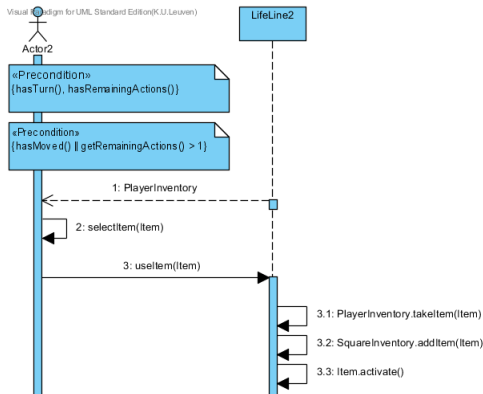


## Pick Up Item

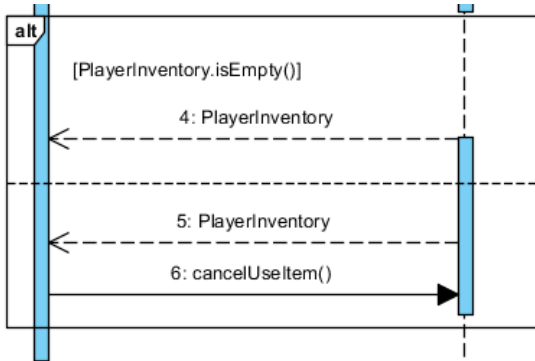
## Pick Up Item deel 2



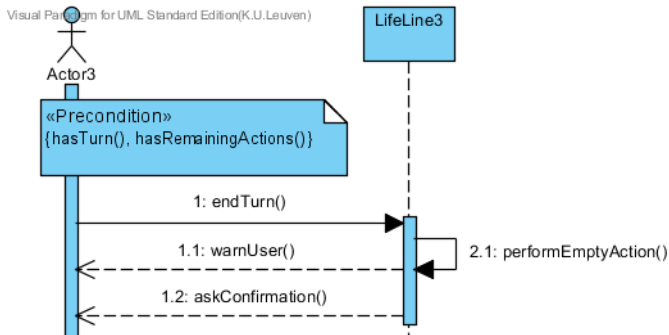
# Use Item deel 1



## Use Item deel 2

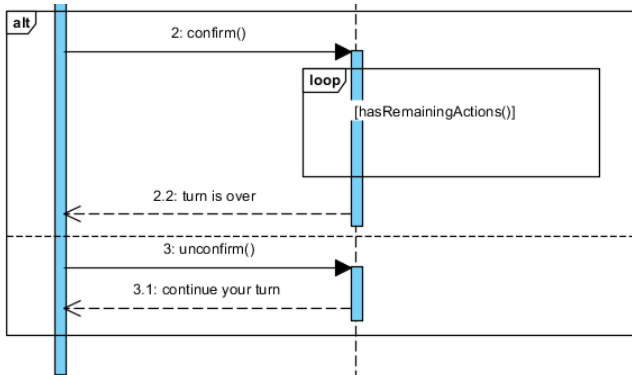


# End Turn deel 1



End Turn

## End Turn deel 2





# Besluit

Bedankt voor uw aandacht.