

# MoTMoT Showcase

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Intro to SDM

Method

In Fujaba

From Fujaba to  
MoTMoT

In MoTMoT

- ▶ Story Driven Modeling: system design and specification language
- ▶ Visual language



Intro to SDM

▷ **Method**

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In MoTMoT

## Story board

Setting up a concrete example of a scenario, and provide an abstract run.

## Story diagram

Set up algorithm of scenario in story board as implementation

## Story pattern

Describes object manipulation with collaboration diagrams, and are part of story diagrams.



# Story board

Intro to SDM

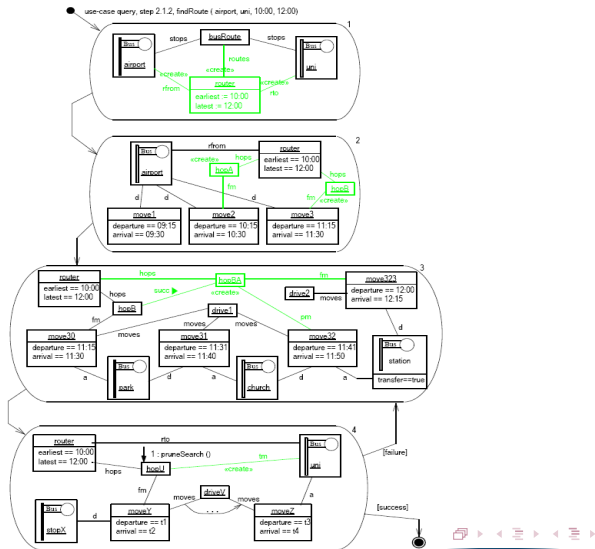
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# Sketch algorithm

- ▶ The router search for a bus route from the university to the airport.
- ▶ The router selects possible buses that start within the given constraints:
  - ▶ Within earliest and latest departure times
  - ▶ Find a route to the destination
  - ▶ If necessary transfer at a bus stop where *transfer==true*
- ▶ Apparently a direct route is impossible and a transfer is necessary at the station. The route with stops until the station stop is however laid out.
- ▶ In the station a bus is chosen that will eventually (...) lead to the university given a number of stops.
- ▶ We have to iterate a database
- ▶ Simple queries: insufficient for route with transfers





# Story diagram with Story patterns

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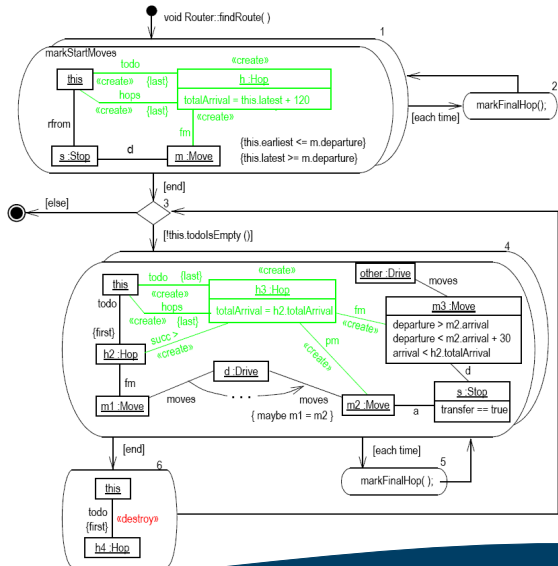
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Intro to SDM

Method

In Fujaba

▷ *From Fujaba to  
MoTMoT*

In MoTMoT

- ▶ Similar syntax
- ▶ Implementation
  - ▶ MoTMoT: Through UML profile (stereotypes)
  - ▶ Fujaba: Modified UML meta-model
- ▶ Storage format
  - ▶ MoTMoT: JMI (interchange with other UML tools)
  - ▶ Fujaba: native format (stores diagram information)
- ▶ Focus:
  - ▶ MoTMoT: model-transformation PIM to PIM, PIM to PSM
  - ▶ Fujaba: code-generation, re-engineering, reverse engineering, ...



Intro to SDM

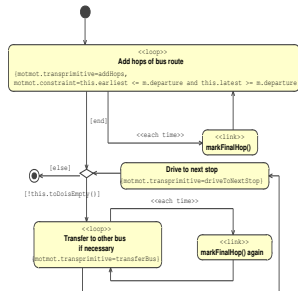
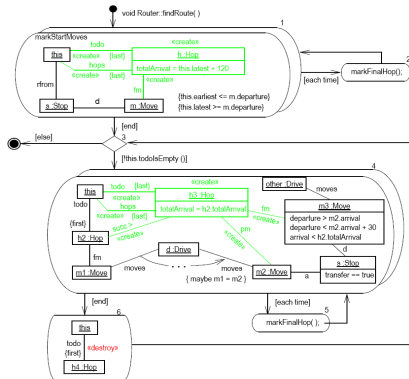
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# Transformation primitive

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