



PB007 Software Engineering I

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What can the activity diagram represent?



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Activities – Who would have guessed;)



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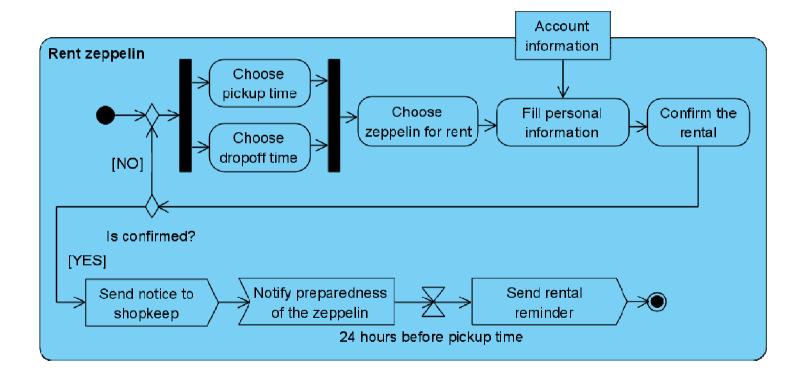
- Activities Who would have guessed;)
 - Use Cases
 - Business Processes
 - Algorithms
 - Operations, methods, ...



- Flow of events and actions in an activity
- It consists of different types of nodes, connected with edges
 - Action
 - Event (asynchronous behavior)
 - Time events
 - Parallel flow
 - Branching
- Typically, it is a sequence of commands (Control Flow), but data can be represented as well (Object Flow)



Activity Diagram – Example





Swimlines

- Logical grouping of related actions
 - Context of actors, use cases, etc..
- If use case is modelled, they can be «include» and «extend»

– «include»

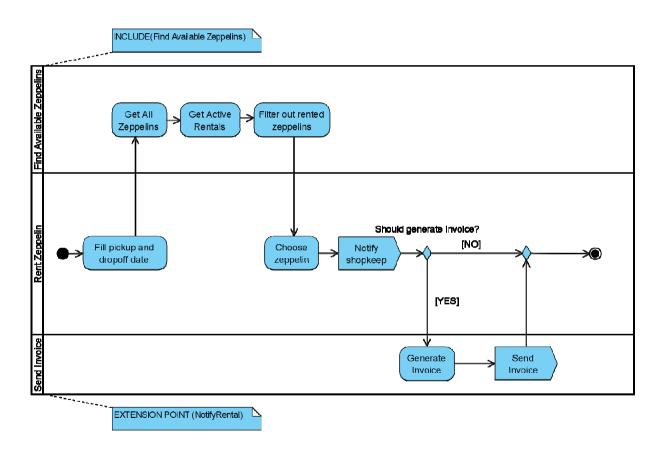
Base and included use case have their own swimlanes.

– «extend»

- If there is an extension point between two actions, decision node is added in between, from which it is possible to move to the extended use case. Afterwards, the control is returned by merge node.
- Base and extended use case have their own swimlanes.



Swimlines – Include & Extend





In this seminar...

Work, work

Visual Paradigm demo

Feedback

- Team work on project
 - Activity Diagram



Task for this week

You gotta do what you gotta do

- Process the feedback
- Choose two use cases and create activity diagrams for them
 - Adequately[™] complex (meaning no three-action diagrams)
 - Choose different use cases than those for textual specification
- Submit the report
 - Don't forget to include work from previous weeks

