

PB007

4. cvičení

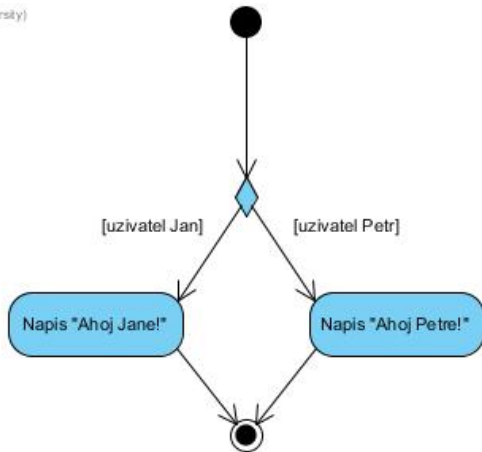
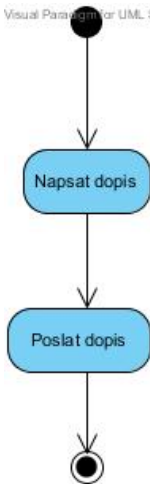
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FI MU, podzim 2012

19. 10. 2012

Diagram aktivit

Visual Programming for UML Standard Edition (Masaryk University)



- UC (use case) – interakce aktéra a systému
- DA (diagram aktivit) – posloupnost akcí
- UC a DA jsou vzájemně se doplňující pohledy na stejné chování

Diagram aktivit – tabulka řídicích uzlů




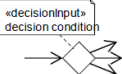



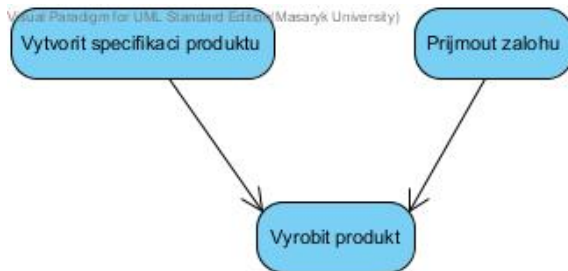
control node syntax	control node semantics	
	Initial node – indicates where the flow starts when an activity is invoked	
	Activity final node – terminates an activity	Final nodes
	Flow final node – terminates a specific flow within an activity. The other flows are unaffected	
	Decision node – guard conditions on the output edges select one of them for traversal May optionally have inputs defined by a «decisionInput»	See examples on next two slides
	Merge node – selects <i>one</i> of its input edges	
	Fork node – splits the flow into multiple concurrent flows	
{join spec} 	Join node – synchronizes multiple concurrent flows May optionally have a join specification to modify its semantics	

Diagram aktivit – notace Petriho sítě



akce *Vyrobil produkt* je spuštěna až poté co skončí obě akce:
Vytvořit specifikaci produktu a *Přijmout zálohu*

Diagram aktivit – souběžnost

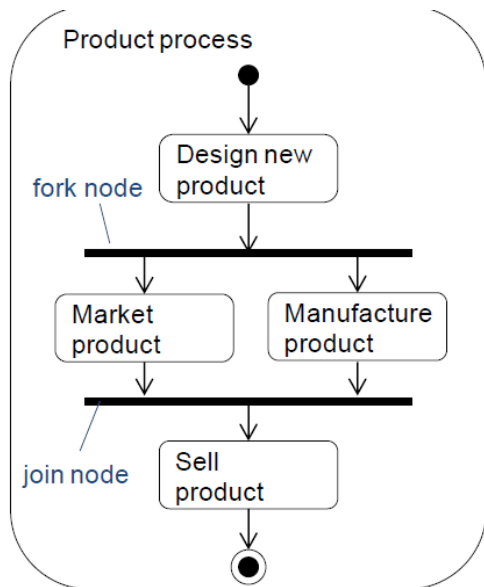


Diagram aktivit – souběžnost

Visual Paradigm for UML Standard Edition (Masaryk University)

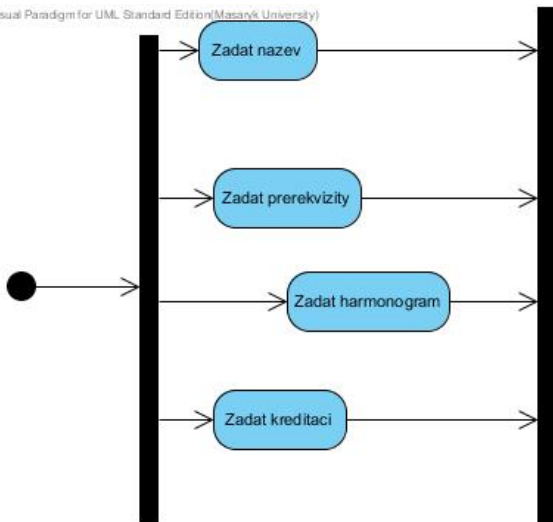


Diagram aktivít – oddíly

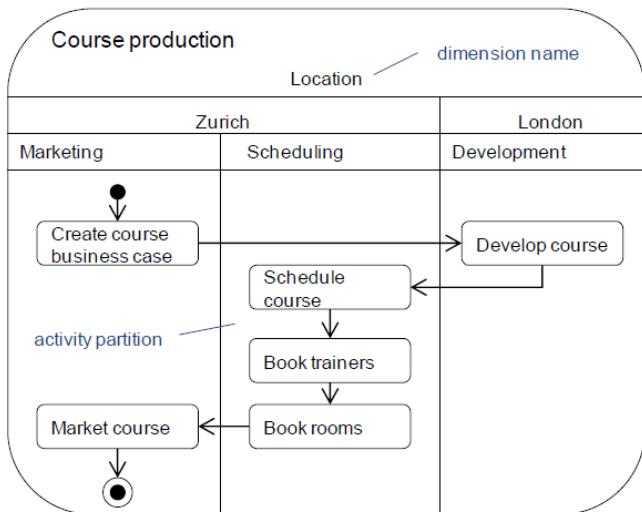
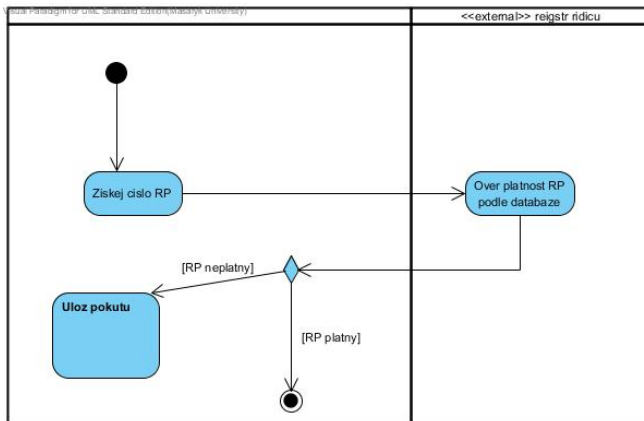


Diagram aktivit – interakce s externím systémem



– externí oddíl není součástí systému

Diagram aktivit – akční uzly

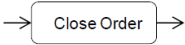
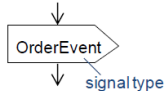
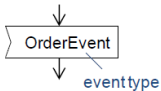

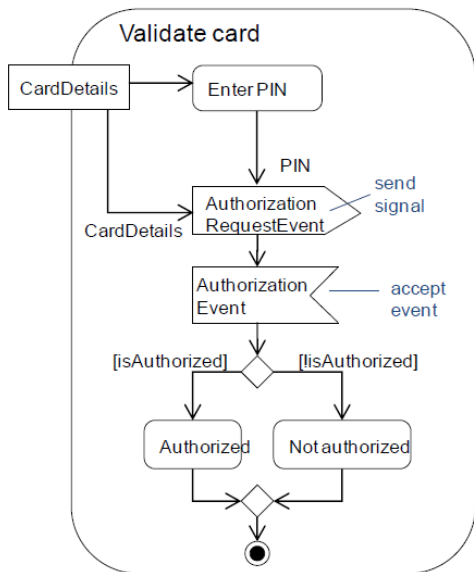
action node syntax	action node semantics
	<p>Call action - invokes an activity, a behavior or an operation. The most common type of action node. See next slide for details.</p>
	<p>Send signal action - sends a signal asynchronously. The sender <i>does not</i> wait for confirmation of signal receipt. It may accept input parameters to create the signal</p>
	<p>Accept event action - waits for events detected by its owning object and offers the event on its output edge. Is enabled when it gets a token on its input edge. If there is <i>no</i> input edge it starts when its containing activity starts and is <i>always</i> enabled.</p>
	<p>Accept time event action - waits for a set amount of time. Generates time events according to it's time expression.</p>

Diagram aktivít – signály, objekty



- popsat několika větami každý případ užití (Use case details → Info)
- detailní rozpracování textové specifikace 3 případů užití, v diagramu UC je označit světle žlutou
- vybrat další 1-2 případy užití, zdokumentovat je pomocí diagramů aktivit

– do středy 24. 10. 2012, 20:00, odevzdávárna PB007 →
Týden 04

