

SWEN30006 Software Modelling and Design

UML ACTIVITY DIAGRAMS AND MODELLING

Larman Chapter 28

If it wasn't backed-up, then it wasn't important.

—The Sysadmin Motto

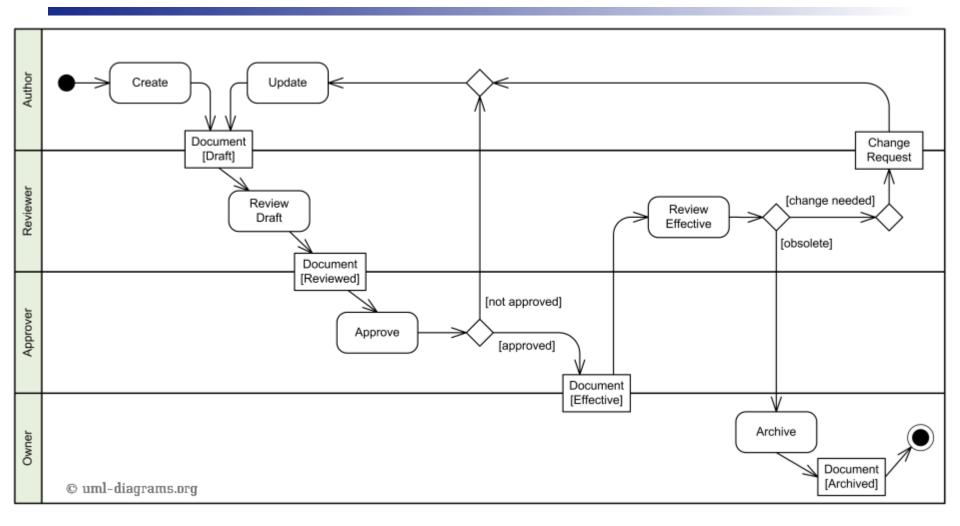


UML Activity Diagrams

- show sequential and parallel activities in a process
- useful for modelling:
 - business processes
 - workflows
 - data flows
 - complex algorithms
- can show both control and data flow
- once an action is finished, move to next action

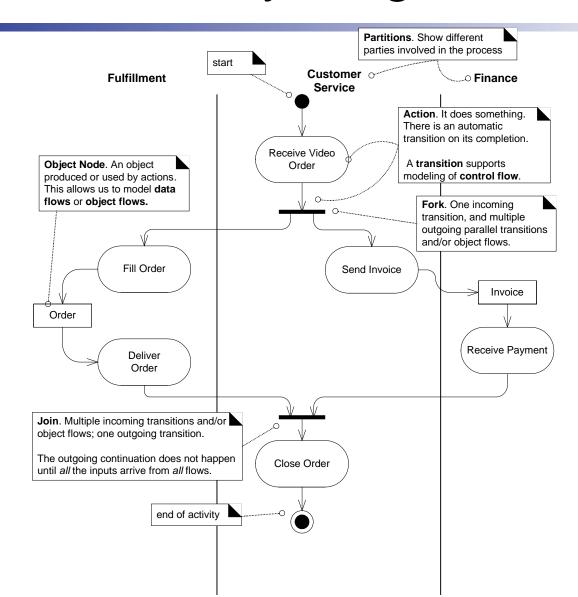


UML Activity Diagram Example



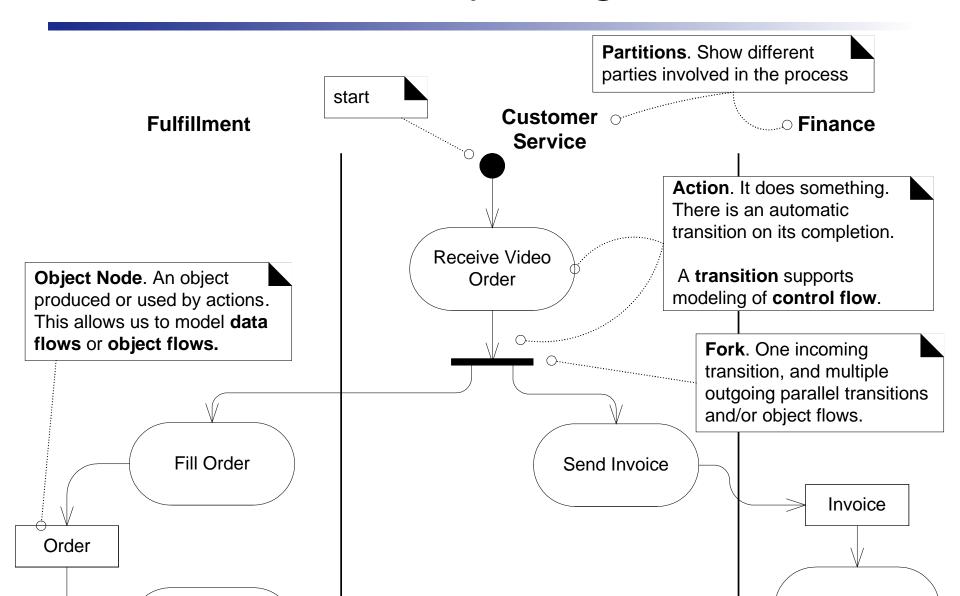
М

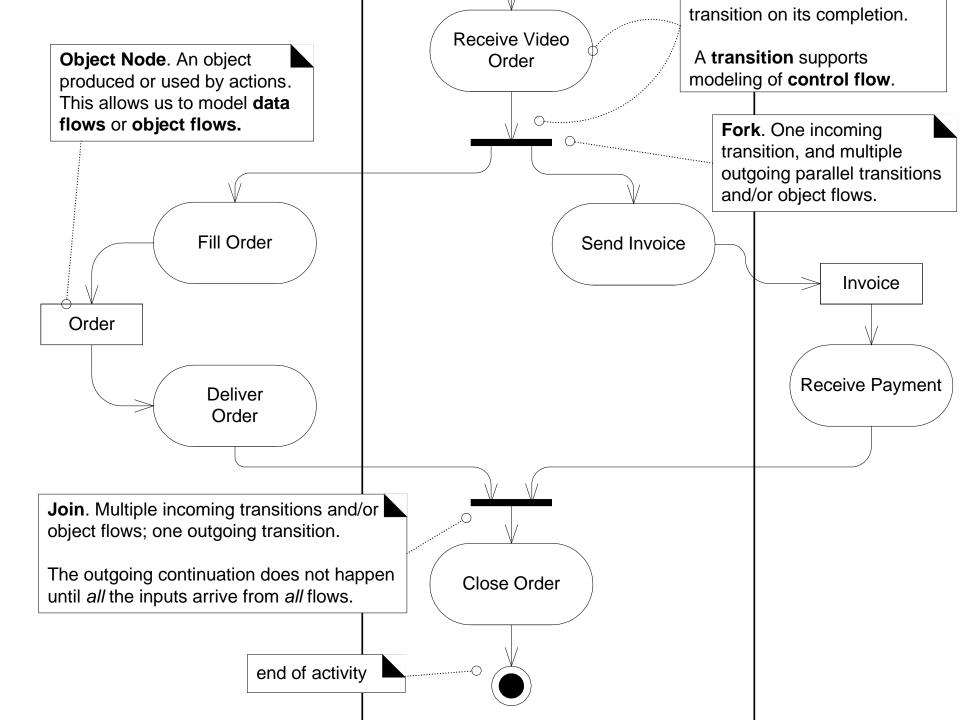
Basic UML Activity Diagram Notation



М

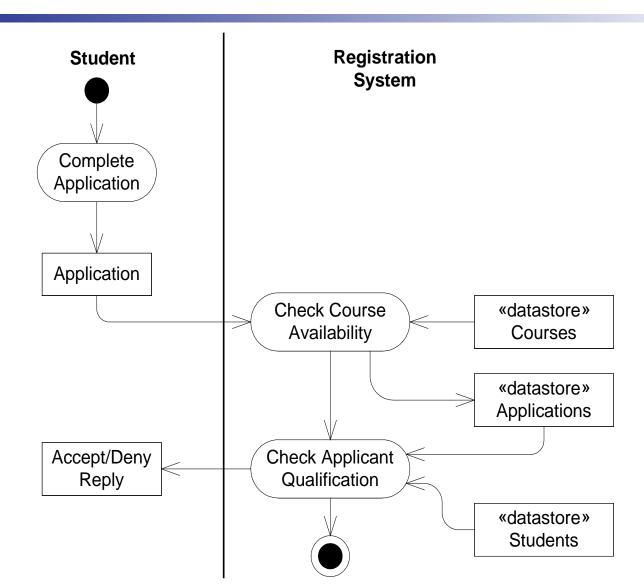
Basic UML Activity Diagram Notation







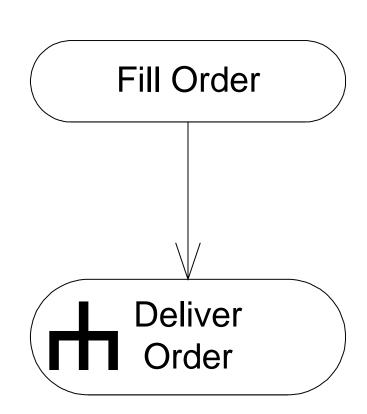
Applying AD Notation: Data Flow Model





Activity Hierachies

the "rake" symbol (which represents a hierarchy) indicates this activity is expanded in a sub-activity diagram

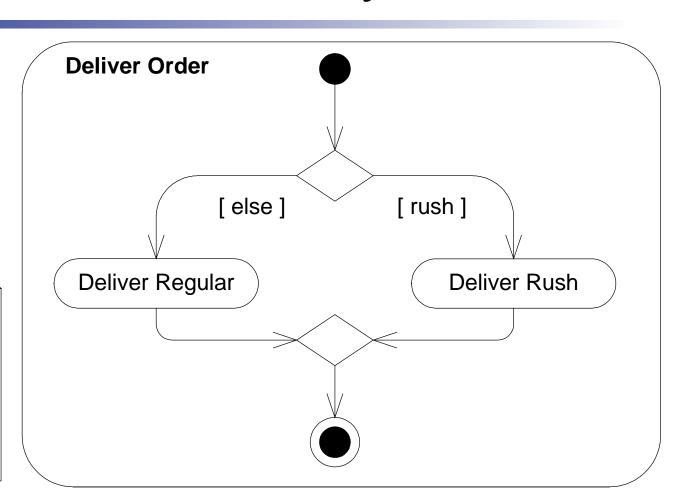




Expansion of an Activity

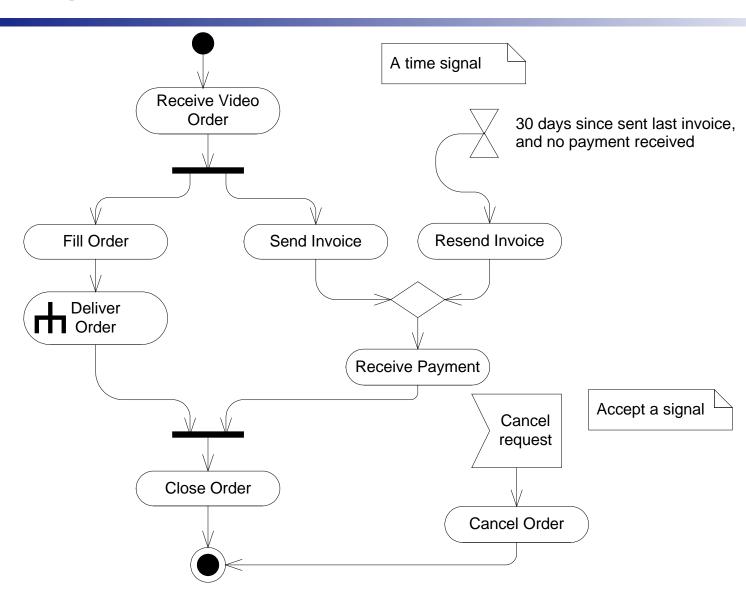
Decision: Any branch happens. Mutual exclusion

Merge: Any input leads to continuation. This is in contrast to a join, in which case all the inputs have to arrive before it continues.





Signals





Modelling *Process Sale* Use Case

