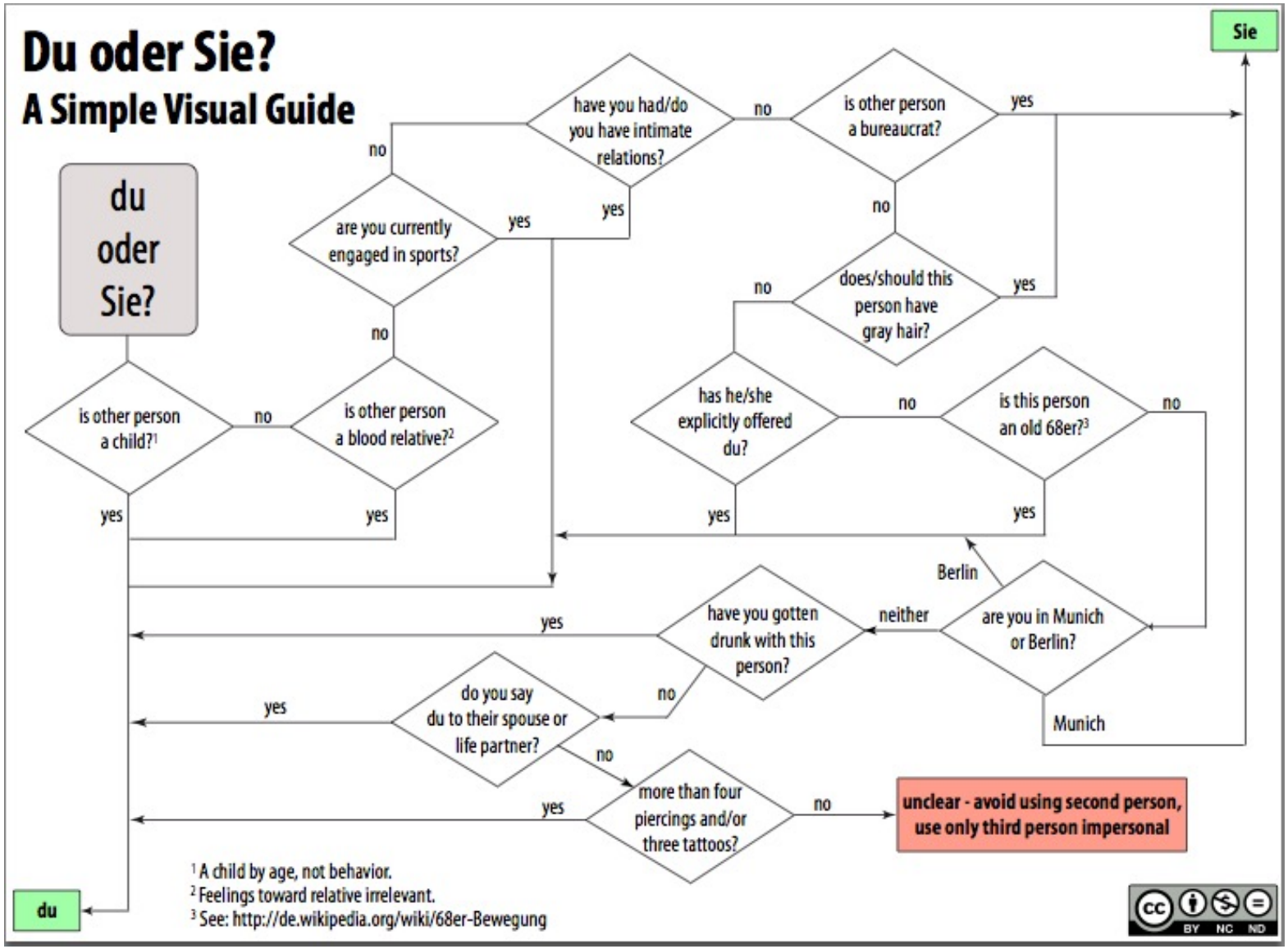


by Dale Askey, from http://bibliobrary.net/2010/01/04/when-to-use-du-and-sie/

CS445 / ECE451 / CS645 / SE463

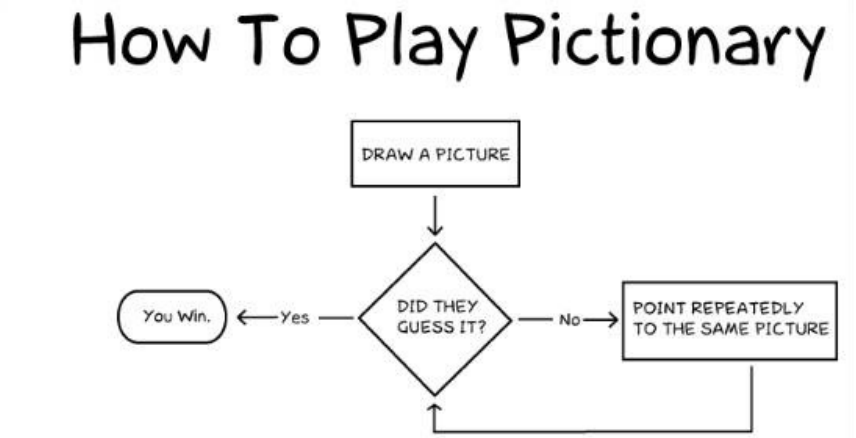
Software Requirements Specification & Analysis

Workflow Models

Workflows

A workflow as a series of tasks that are organized to accomplish some business use case

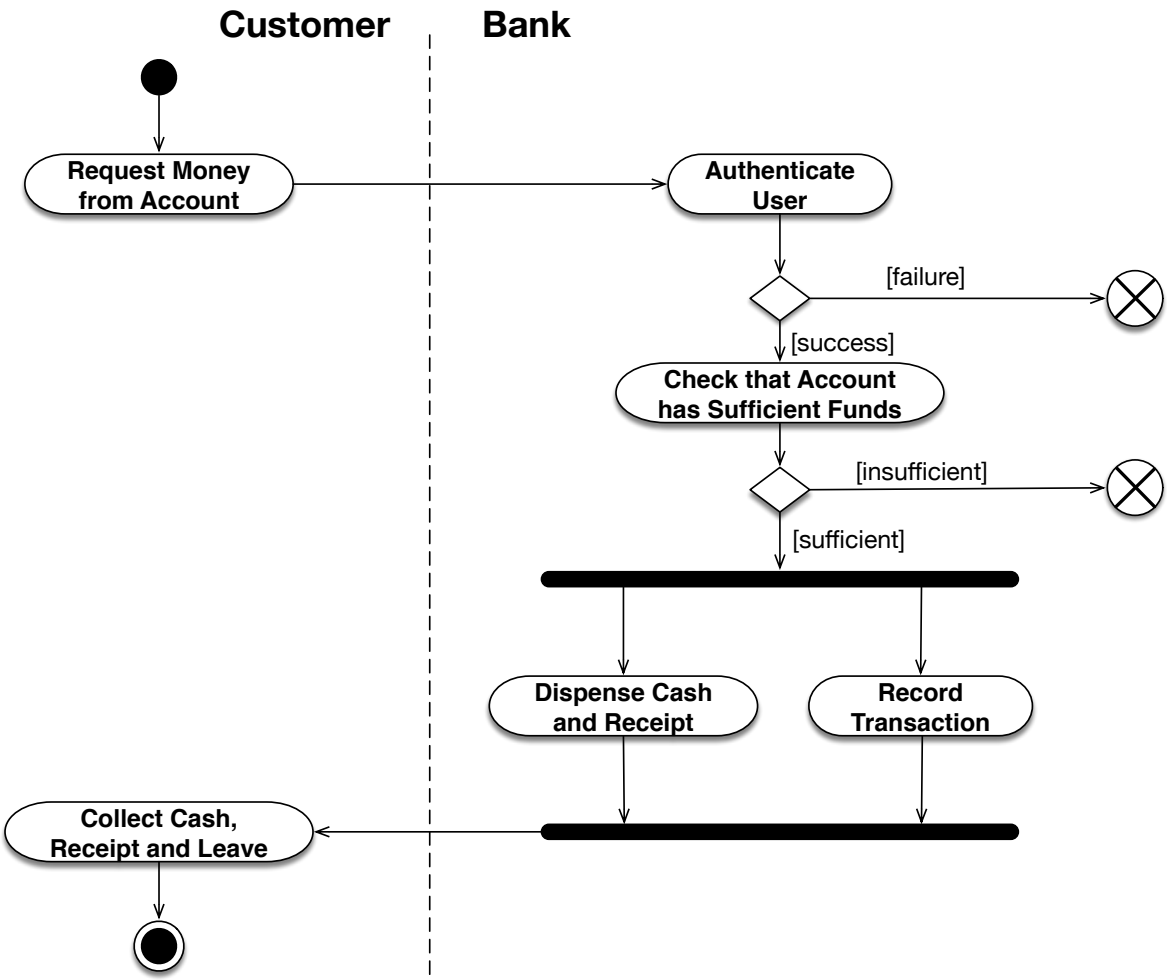
- Decomposition of use case into tasks
- Data needed to perform each task
- Data produced by each task
- Sequencing of tasks



http://thedoghousediaries.com/2659

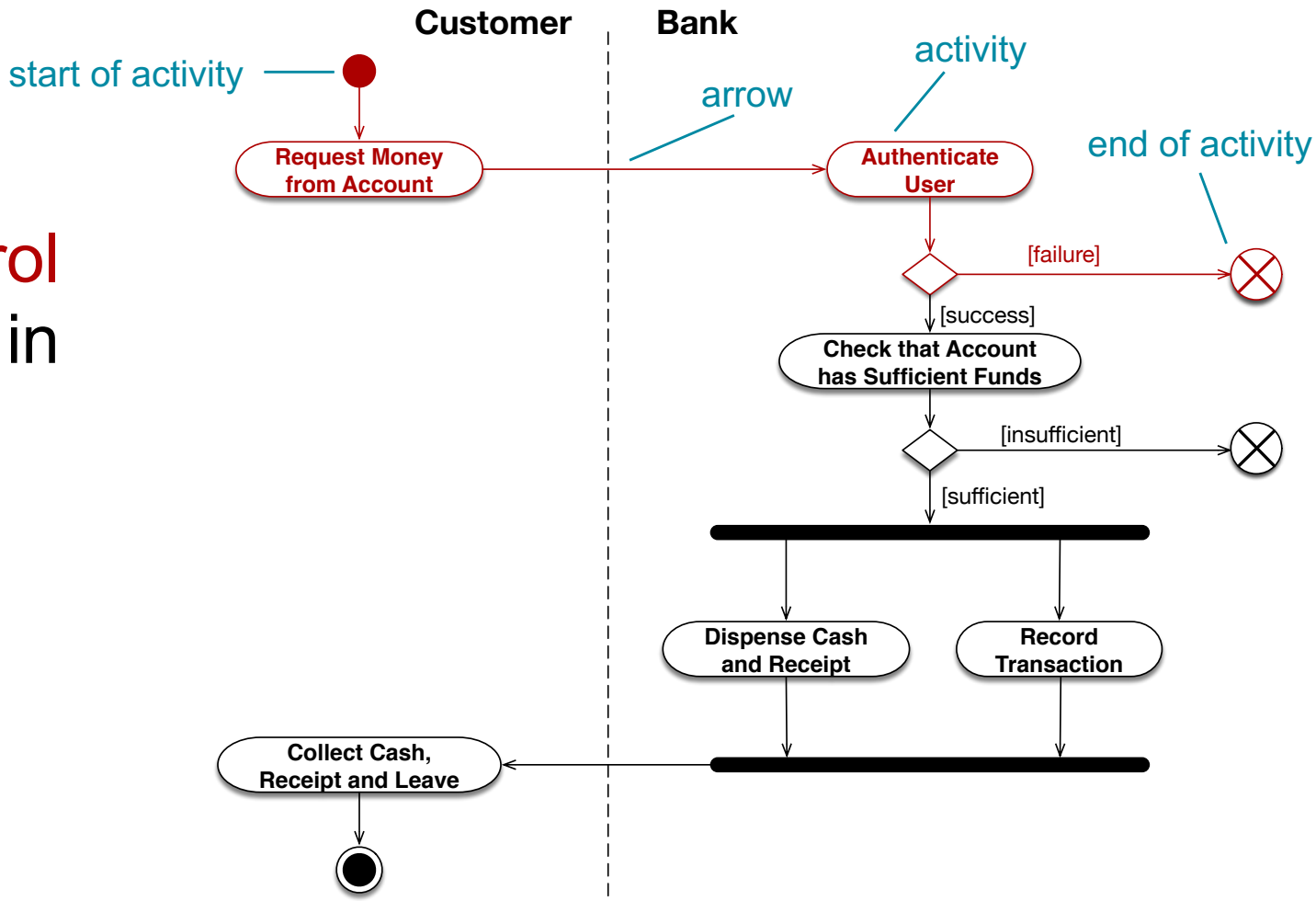
UML Activity Diagram

An Activity Diagram is a UML model for expressing the flow of control from one activity to another.



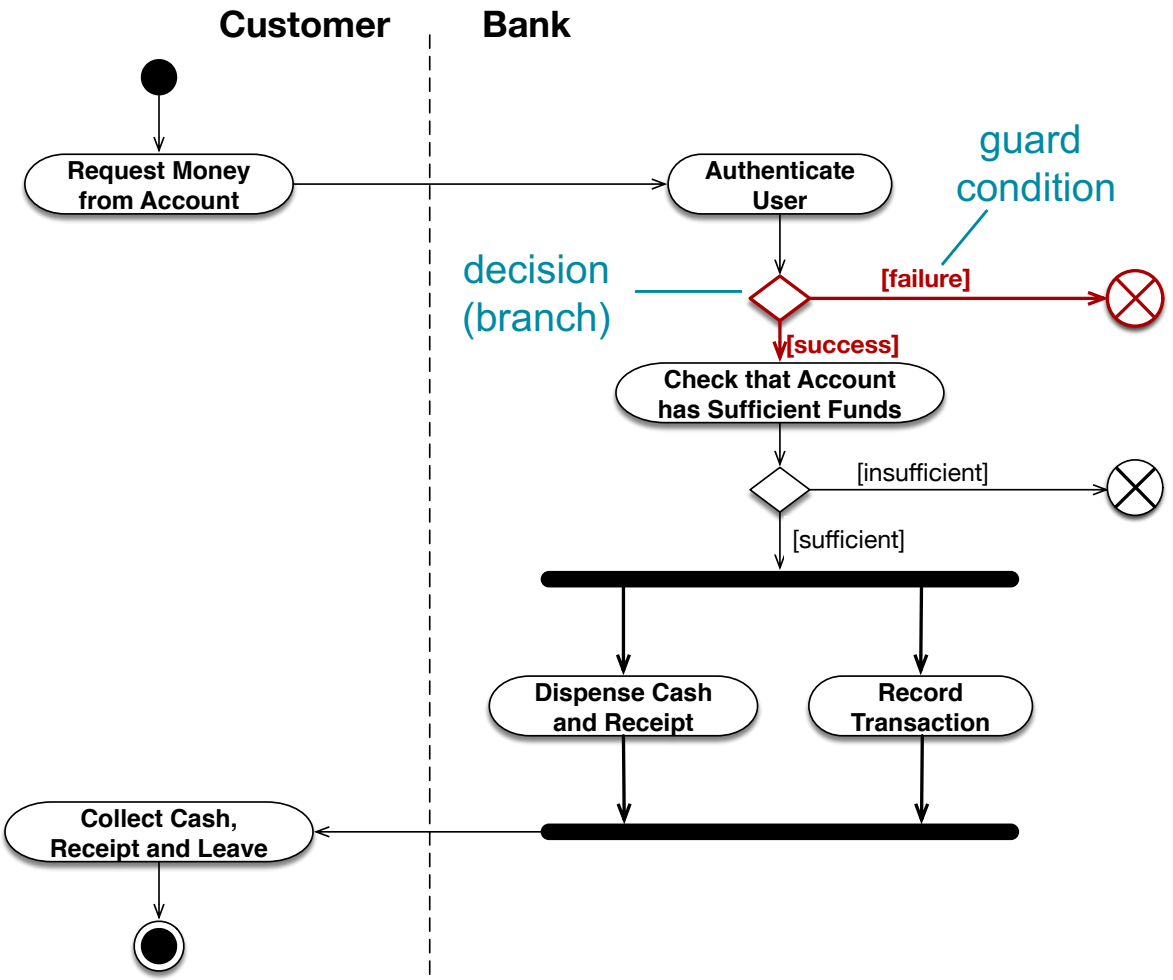
UML Activity Diagram

The flow of control shows the order in which activities happen.



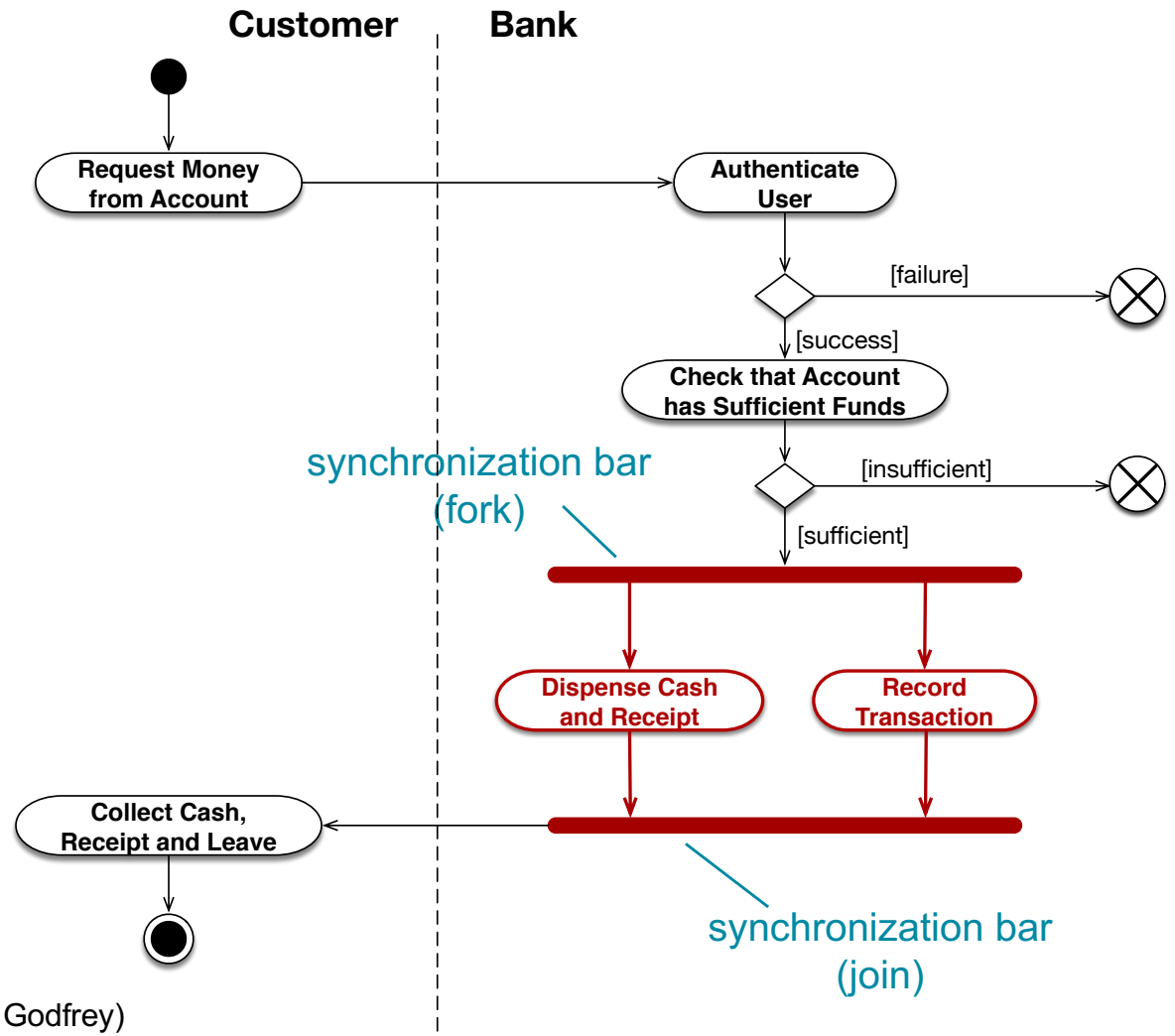
UML Activity Diagram

Decision points model alternative flows based on Boolean conditions.



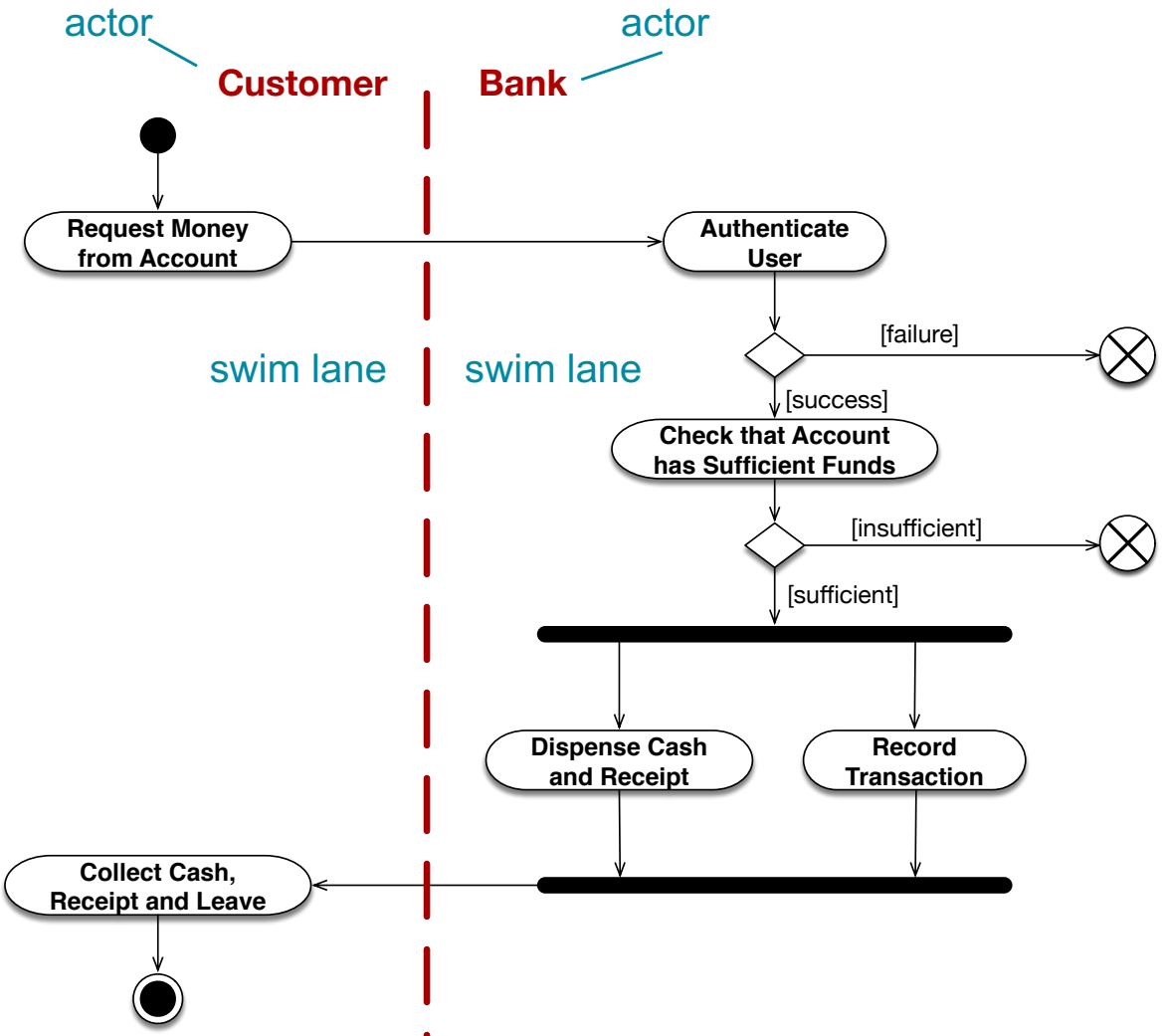
UML Activity Diagram

Synchronization bars are used to model unordered subflows

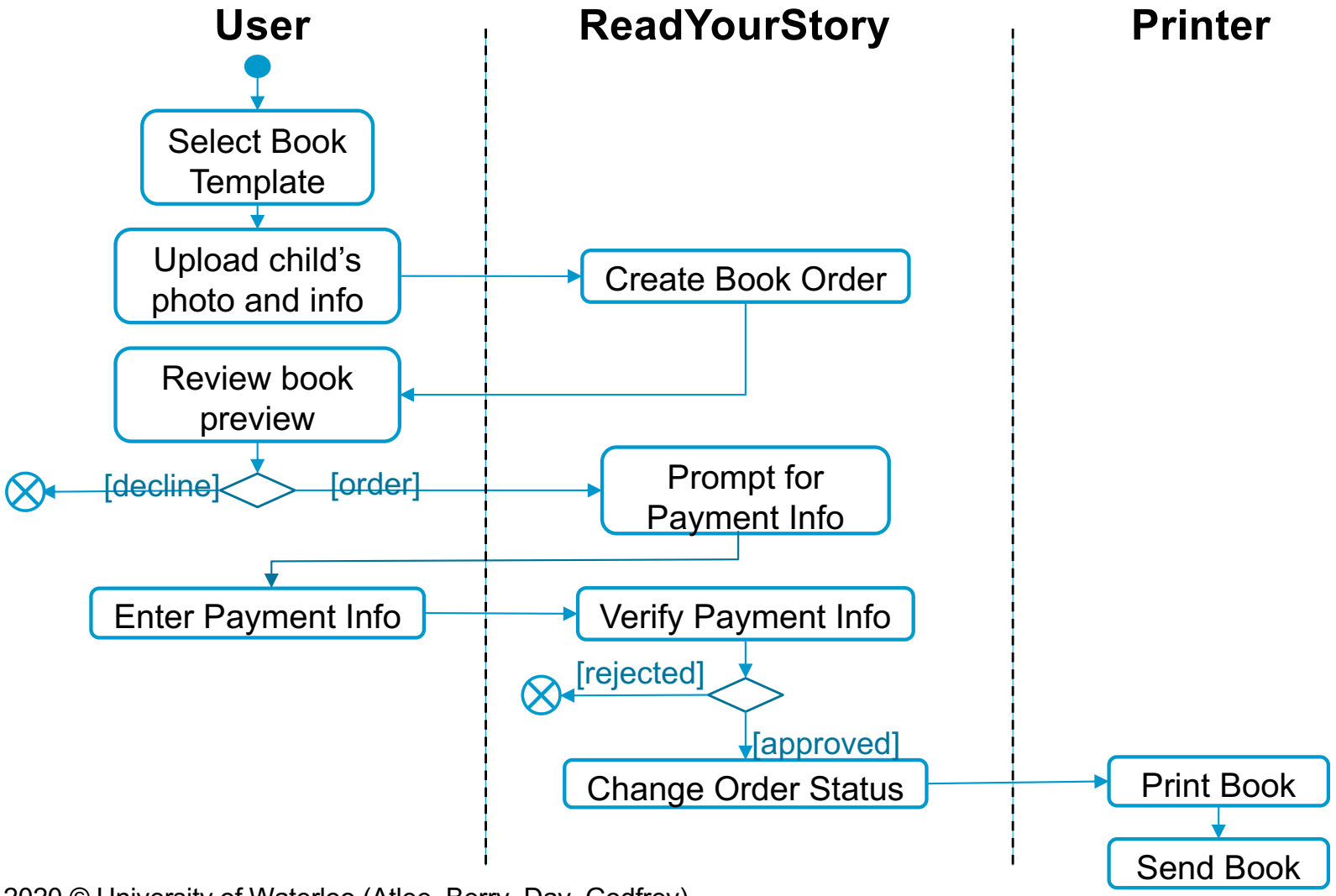


UML Activity Diagram

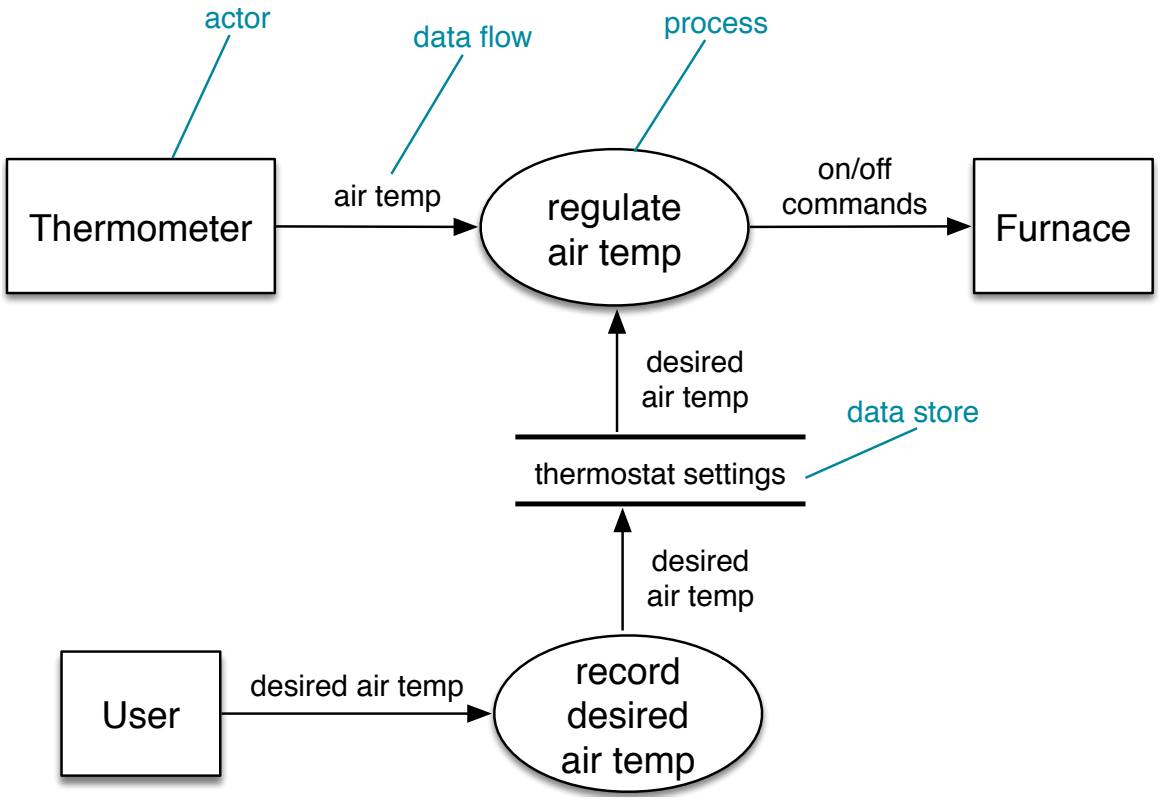
Swimlanes assign activities to different roles (actors)



ReadYourStory

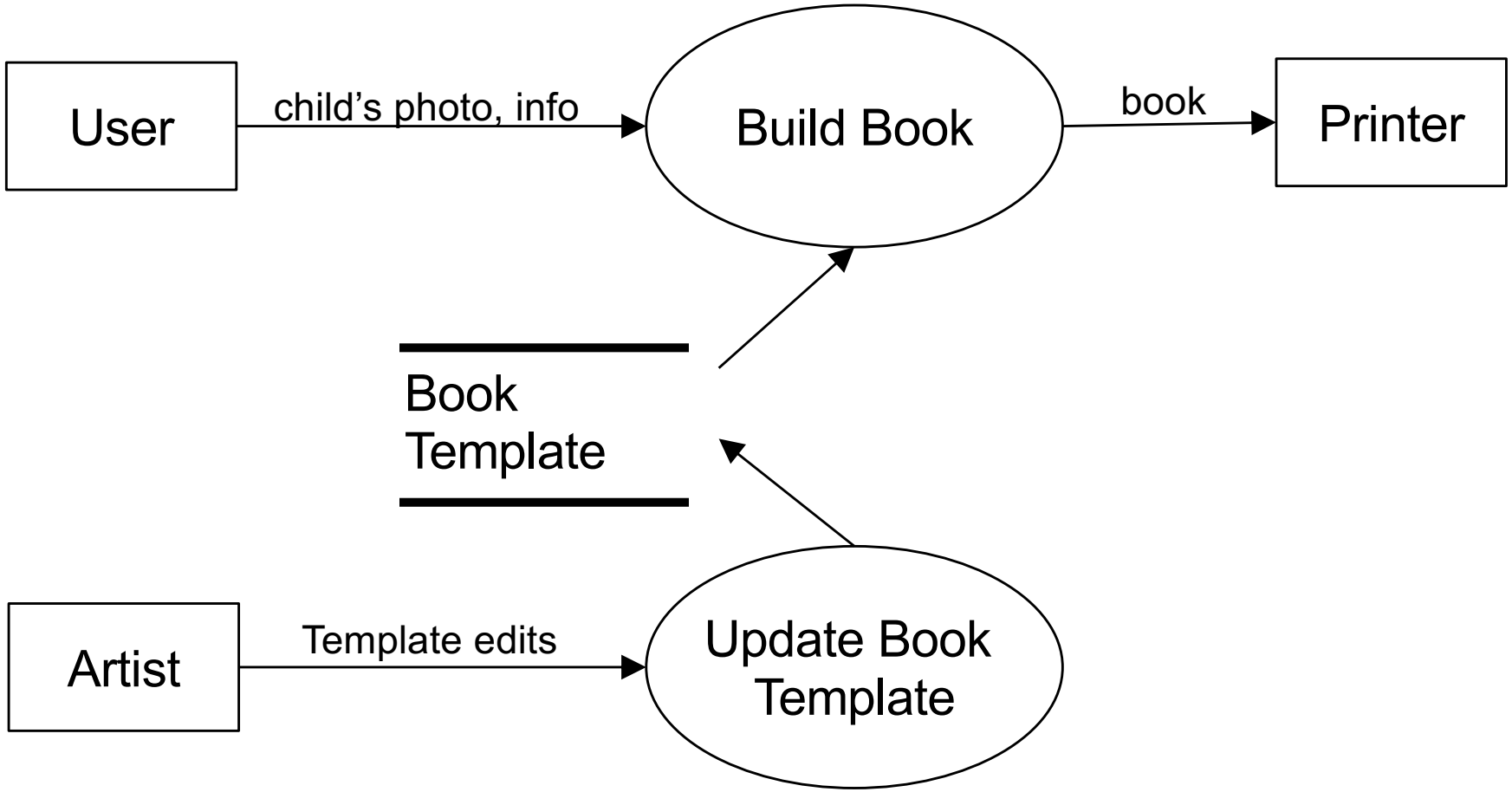


Dataflow Diagram (DFD)



A dataflow diagram (DFD) is a functional decomposition of the work, and the data dependencies between functions.

ReadYourStory



Keep It Simple

(for now)

References

Karl E. Wiegers and Joy Beatty. *Software Requirements, 3ed.* Microsoft Press, 2013.

- Chapter 12: "A picture is worth 1024 words"