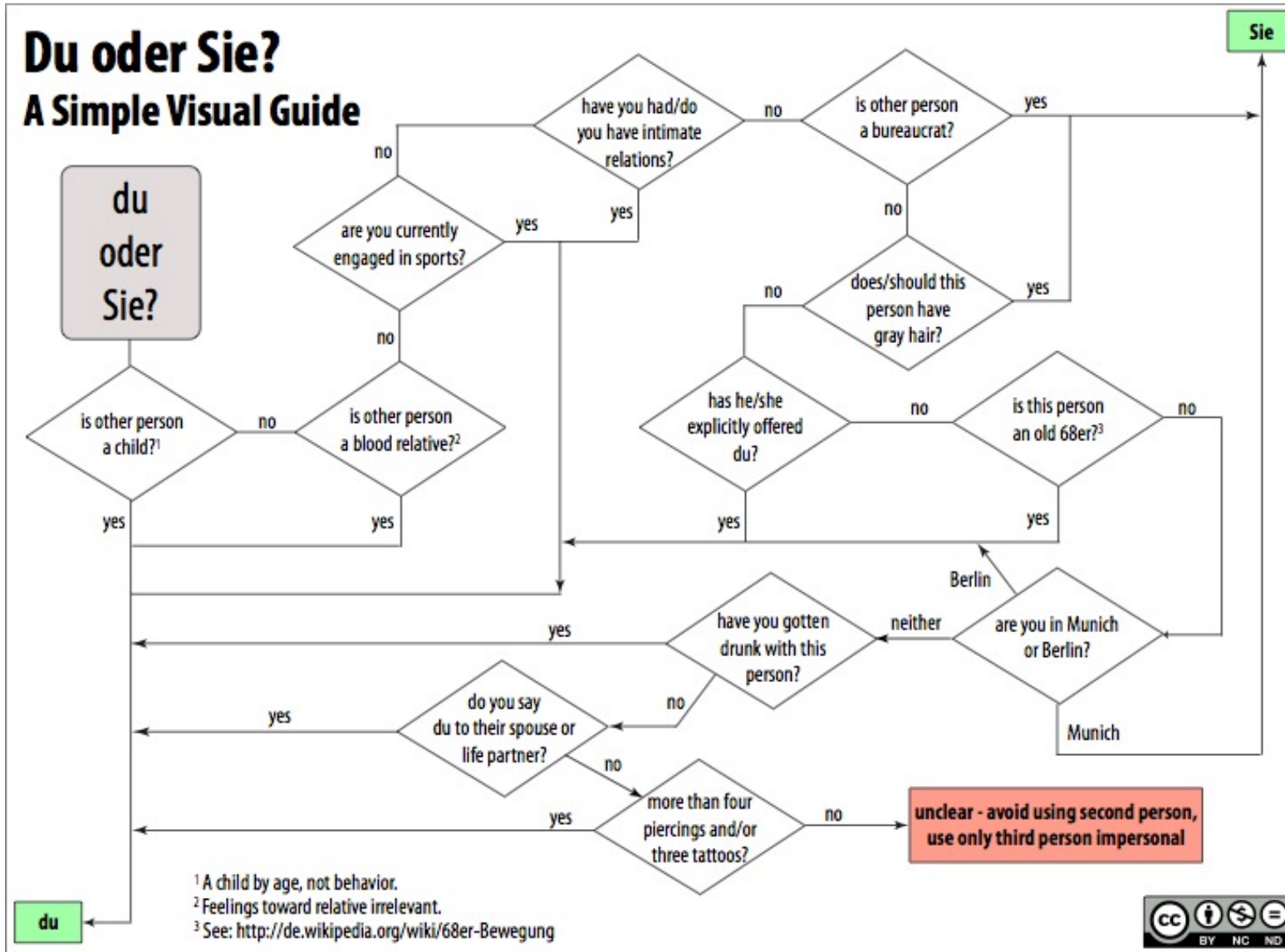


# Du oder Sie?

## A Simple Visual Guide



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

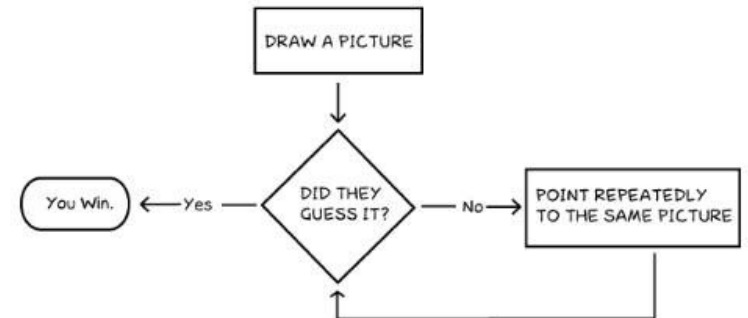


# Workflows

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

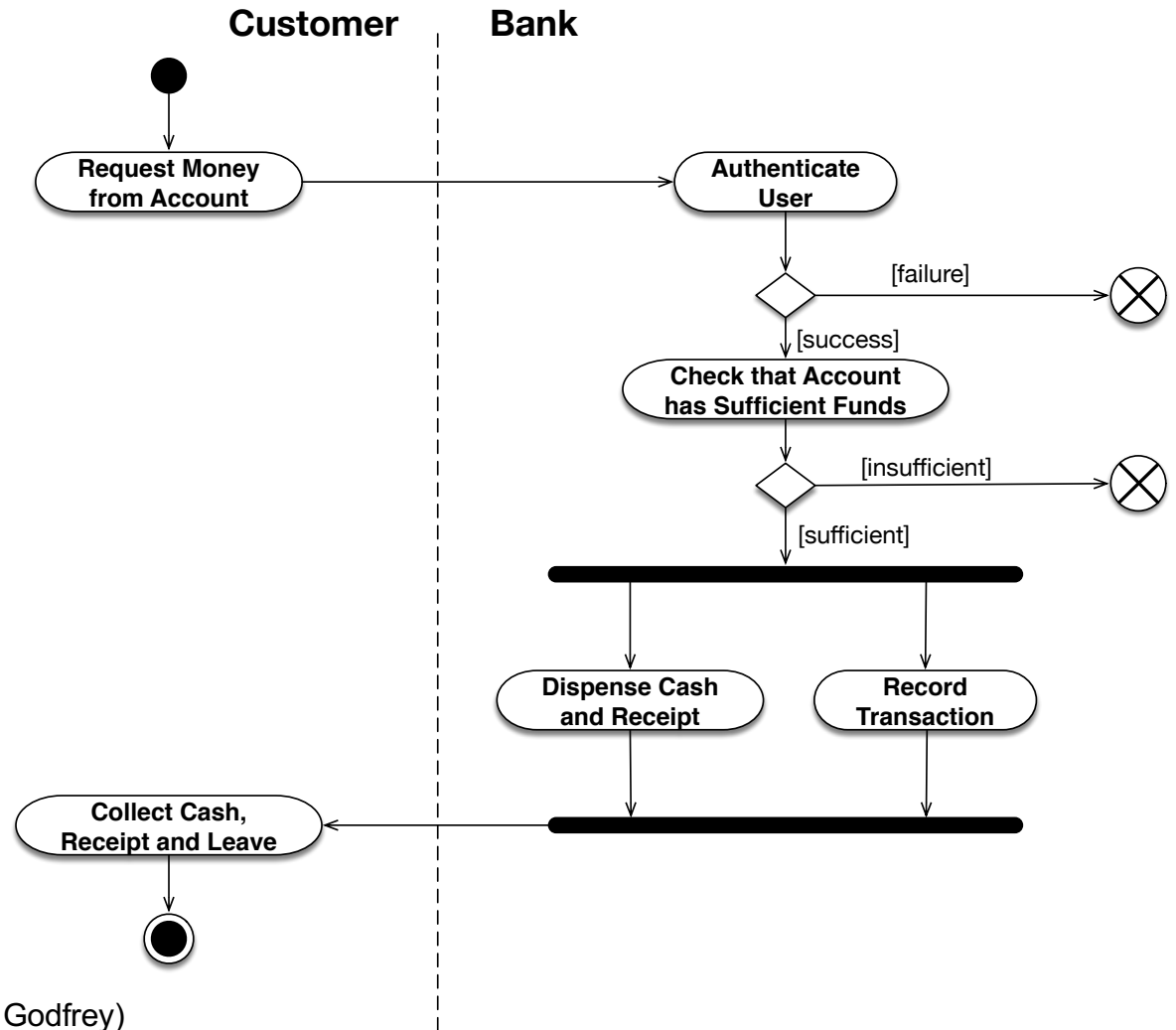
- Decomposition of use case into tasks
- Data needed to perform each task
- Data produced by each task
- Sequencing of tasks

## How To Play Pictionary



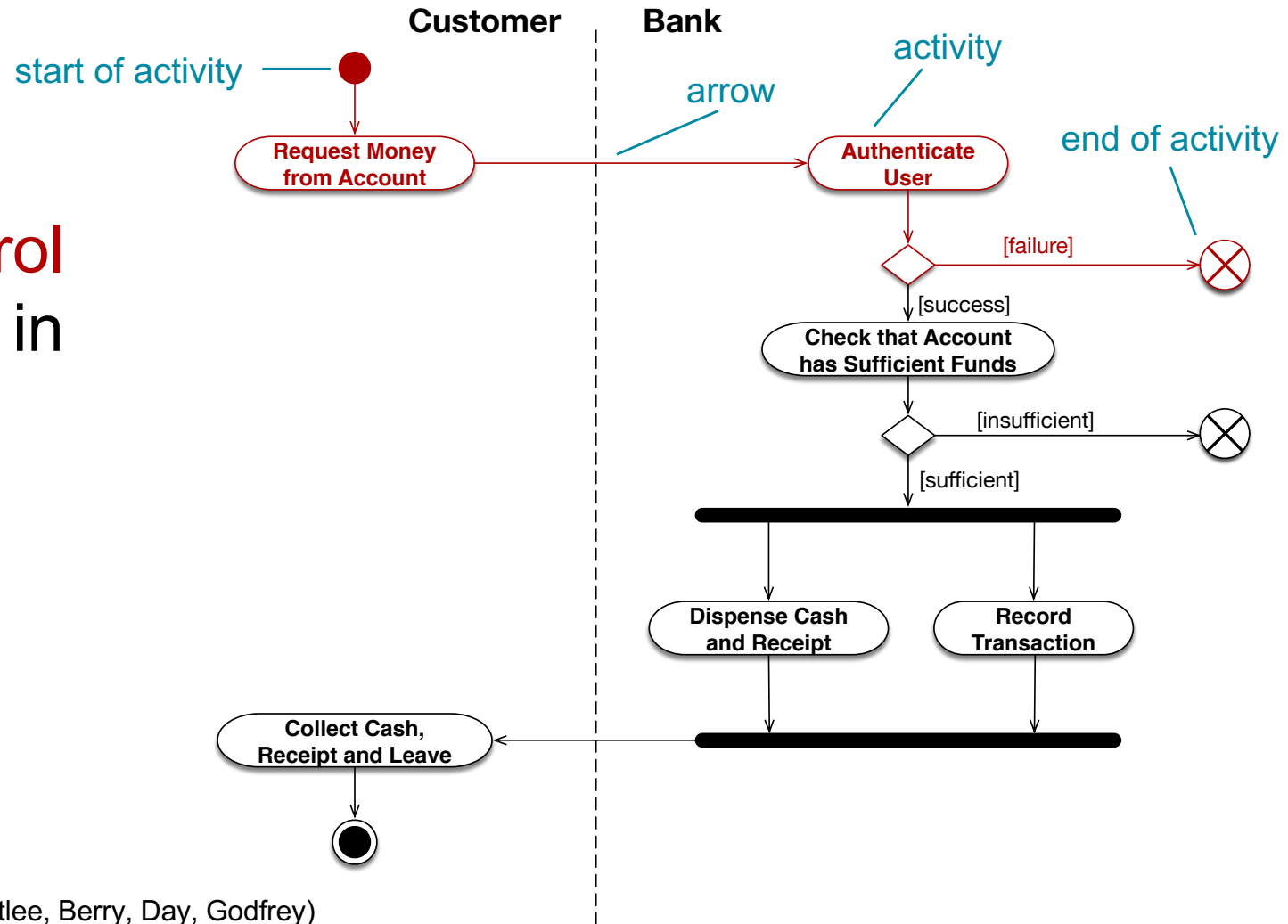
# UML Activity Diagram

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



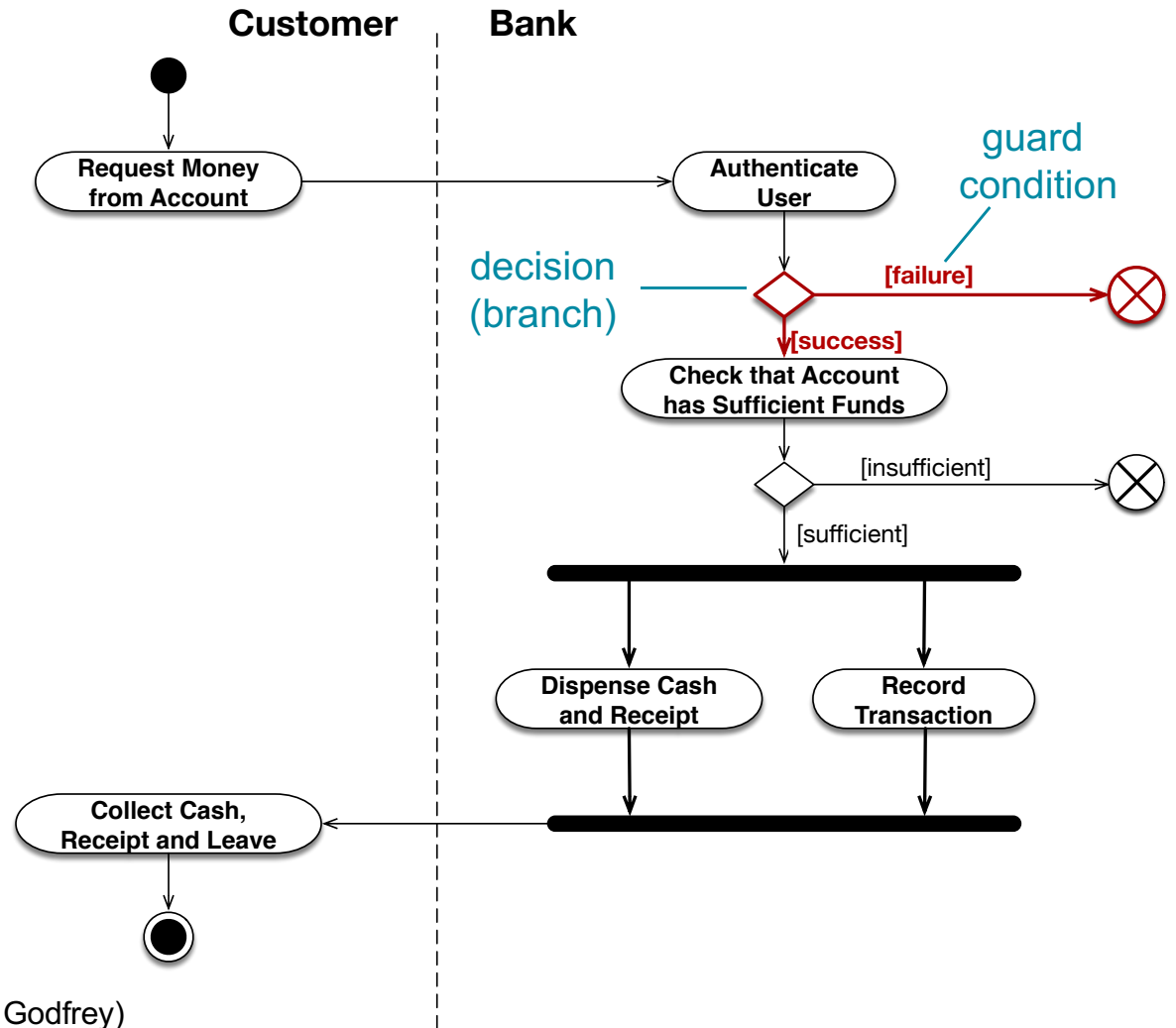
# UML Activity Diagram

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



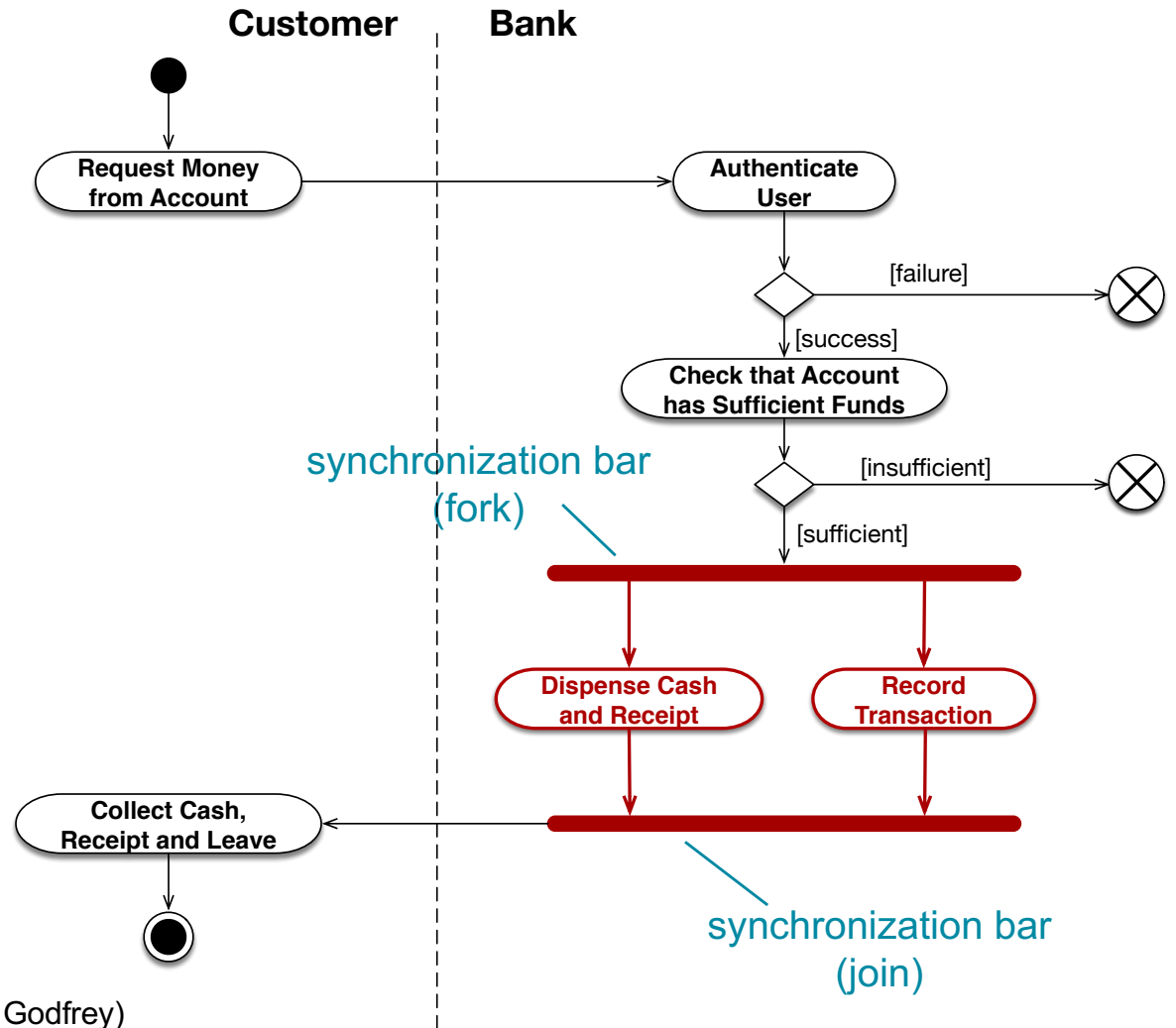
# UML Activity Diagram

Decision points model alternative flows based on Boolean conditions.



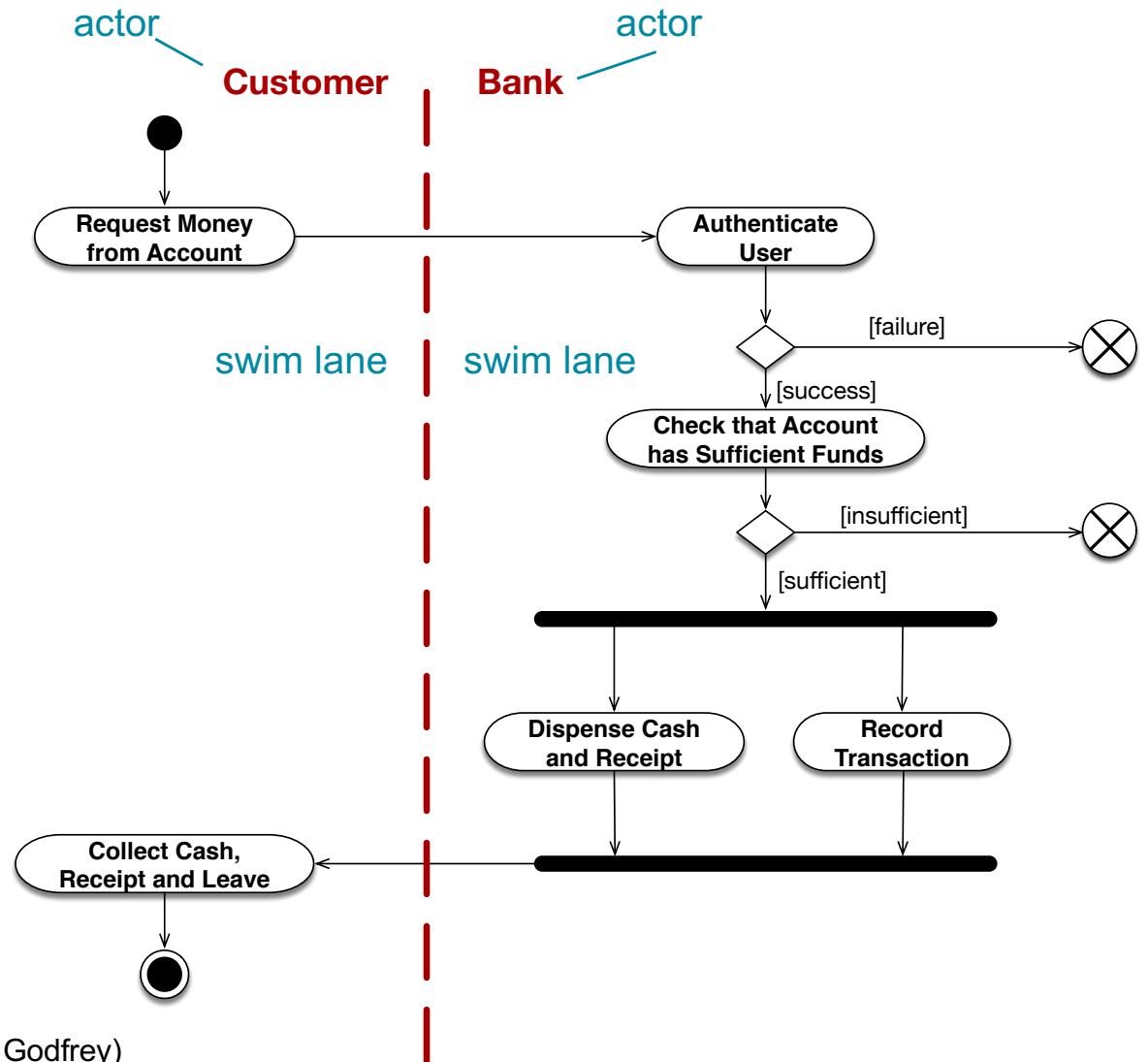
# UML Activity Diagram

**Synchronization bars** are used to model unordered subflows

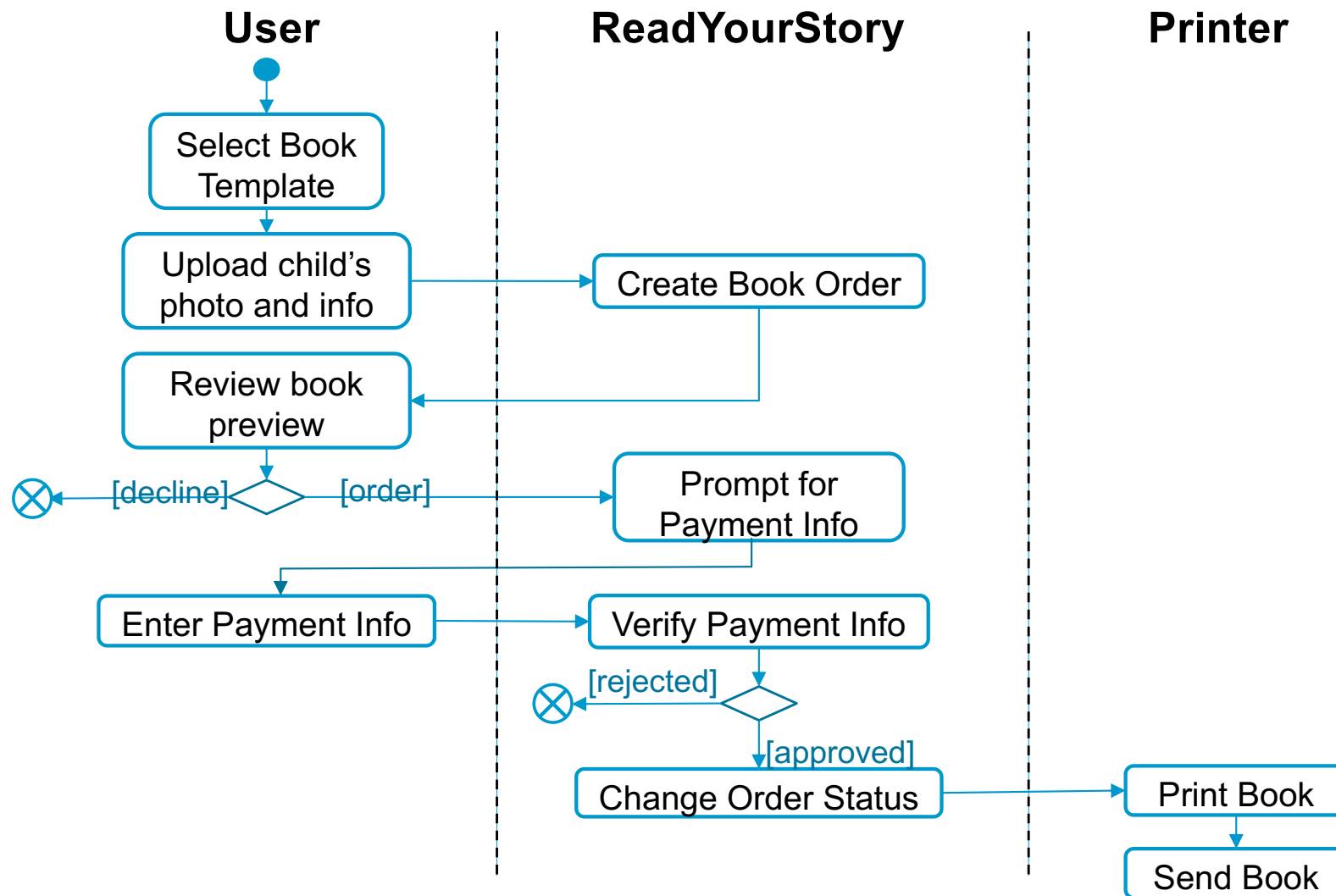


# UML Activity Diagram

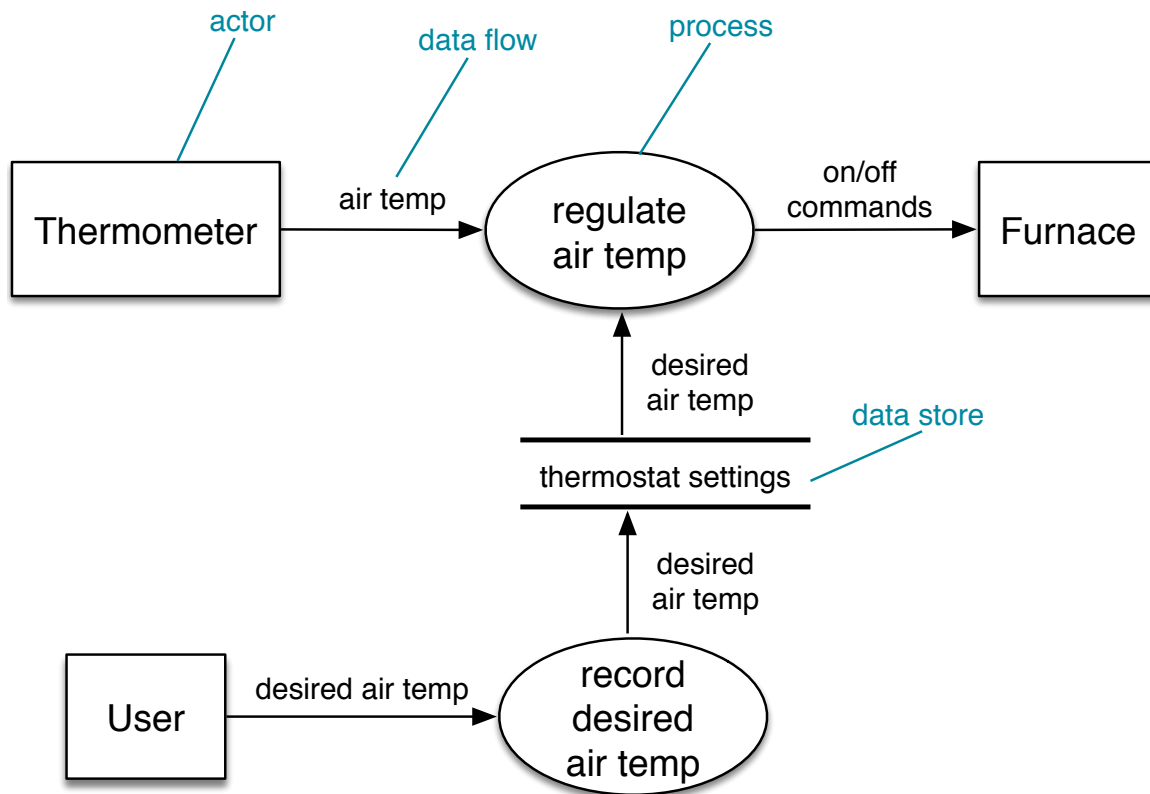
Swimlanes assign activities to different roles (actors)



# ReadYourStory

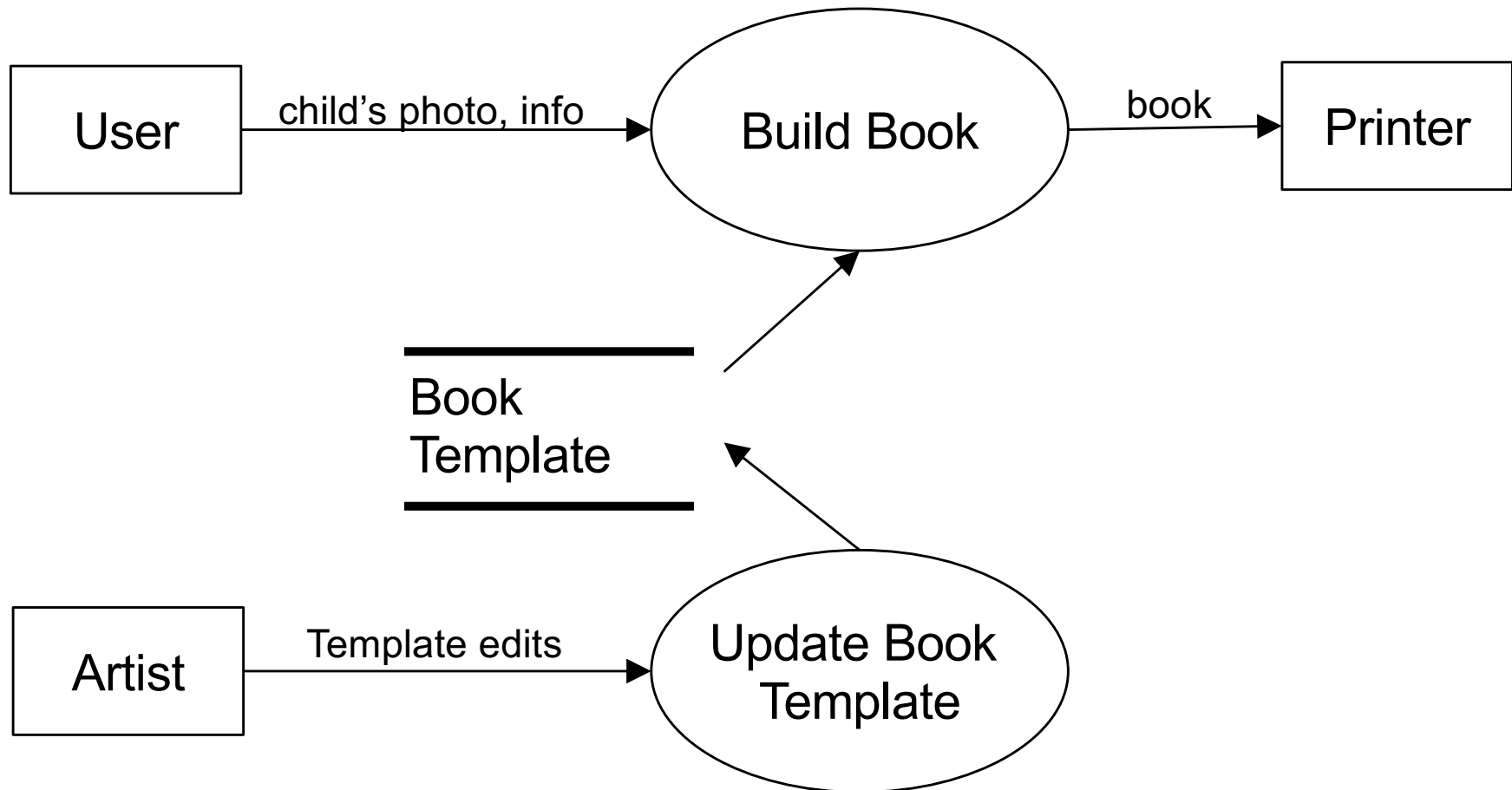


# Dataflow Diagram (DFD)



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. Wieggers and Joy Beatty. *Software Requirements, 3ed.*  
Microsoft Press, 2013.

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



UNIVERSITY OF  
**WATERLOO**

All rights, including copyright, in the content of these slides and video are owned by the course author. The slides and videos are owned by the University of Waterloo. For further information, please contact the course author Joanne Atlee, [jmatlee@uwaterloo.ca](mailto:jmatlee@uwaterloo.ca).