

# Unified Modeling Language (UML)

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- Modeling is an essential part of software development projects.
- The Unified Modeling Language (UML) is a general-purpose, developmental, visual annotation language.

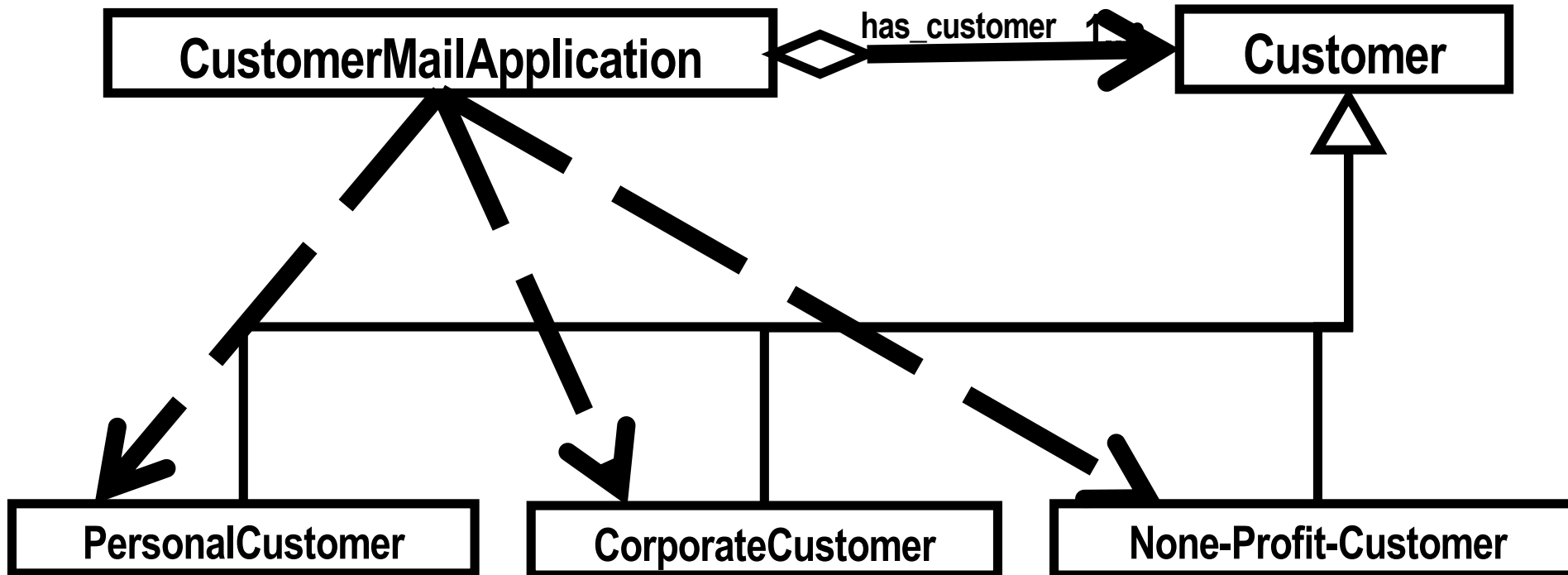
# Unified Modeling Language (UML)

- A standard by the Object Management Group (OMG)
- OMG is an international standardization consortium

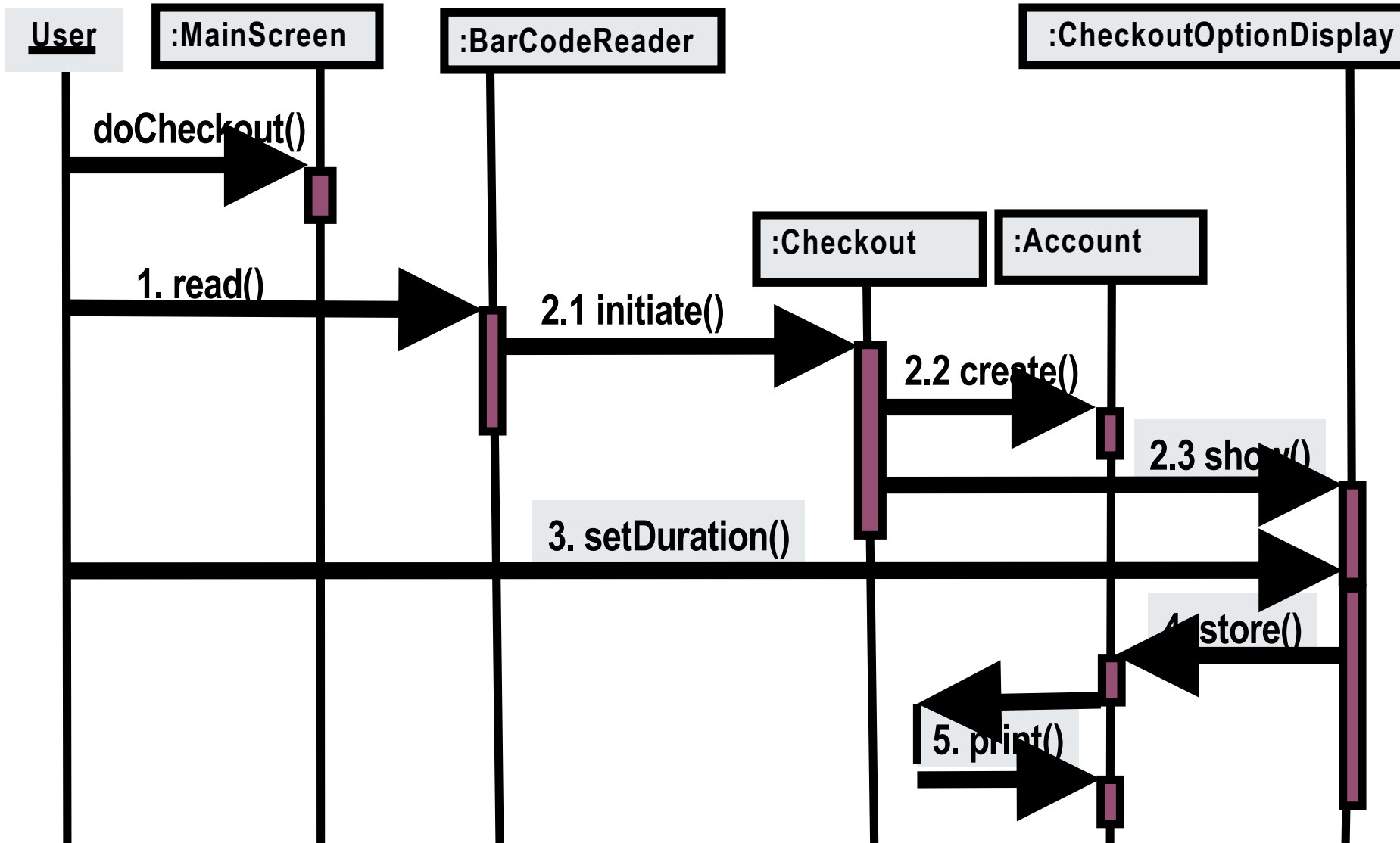
<https://www.omg.org/spec/UML/About-UML/>

# UML Class Diagram

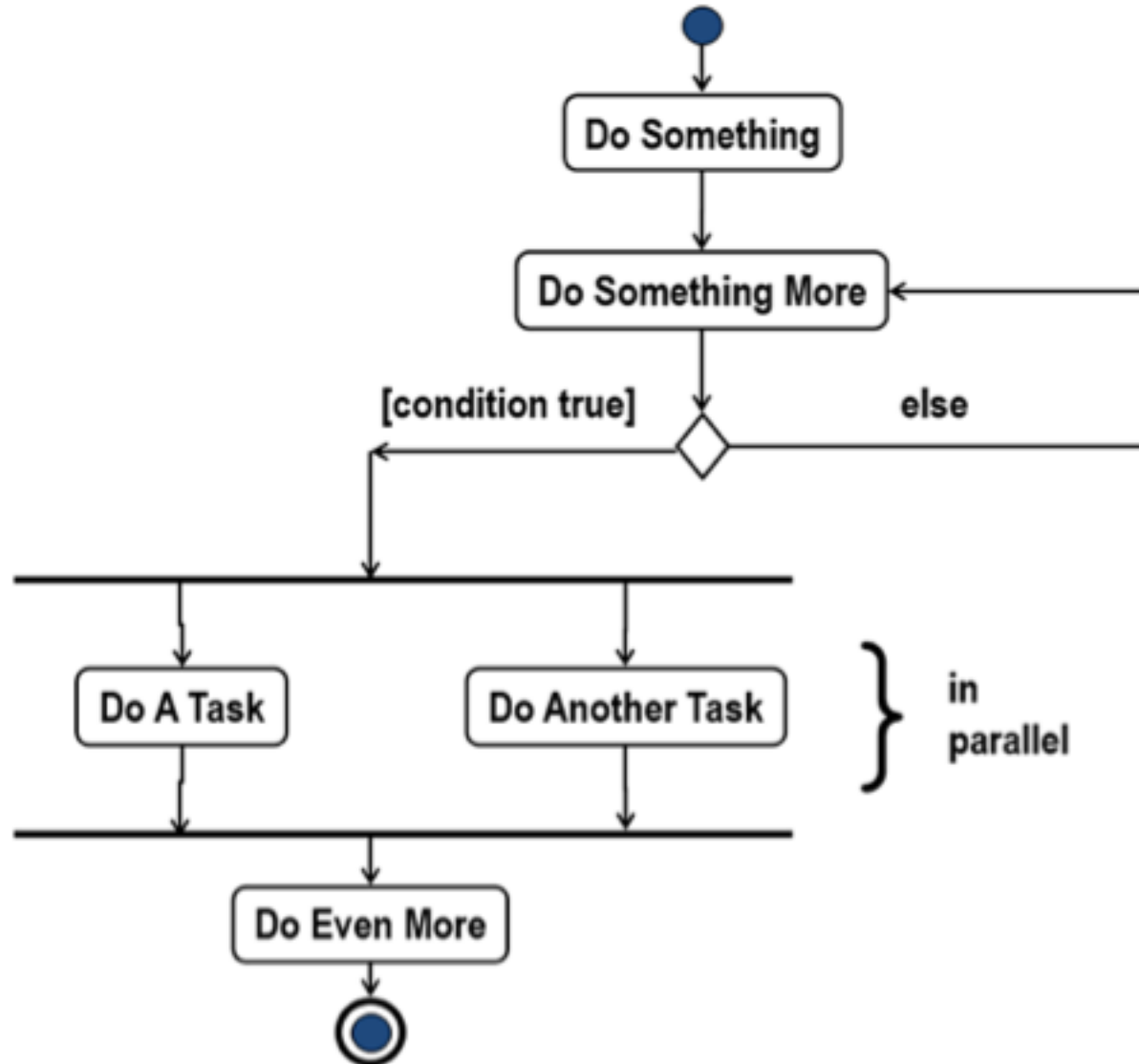
- Class diagram is a structural diagram that shows:
  - Classes and so the structure of a system
  - Attributes of classes
  - Relationships between classes



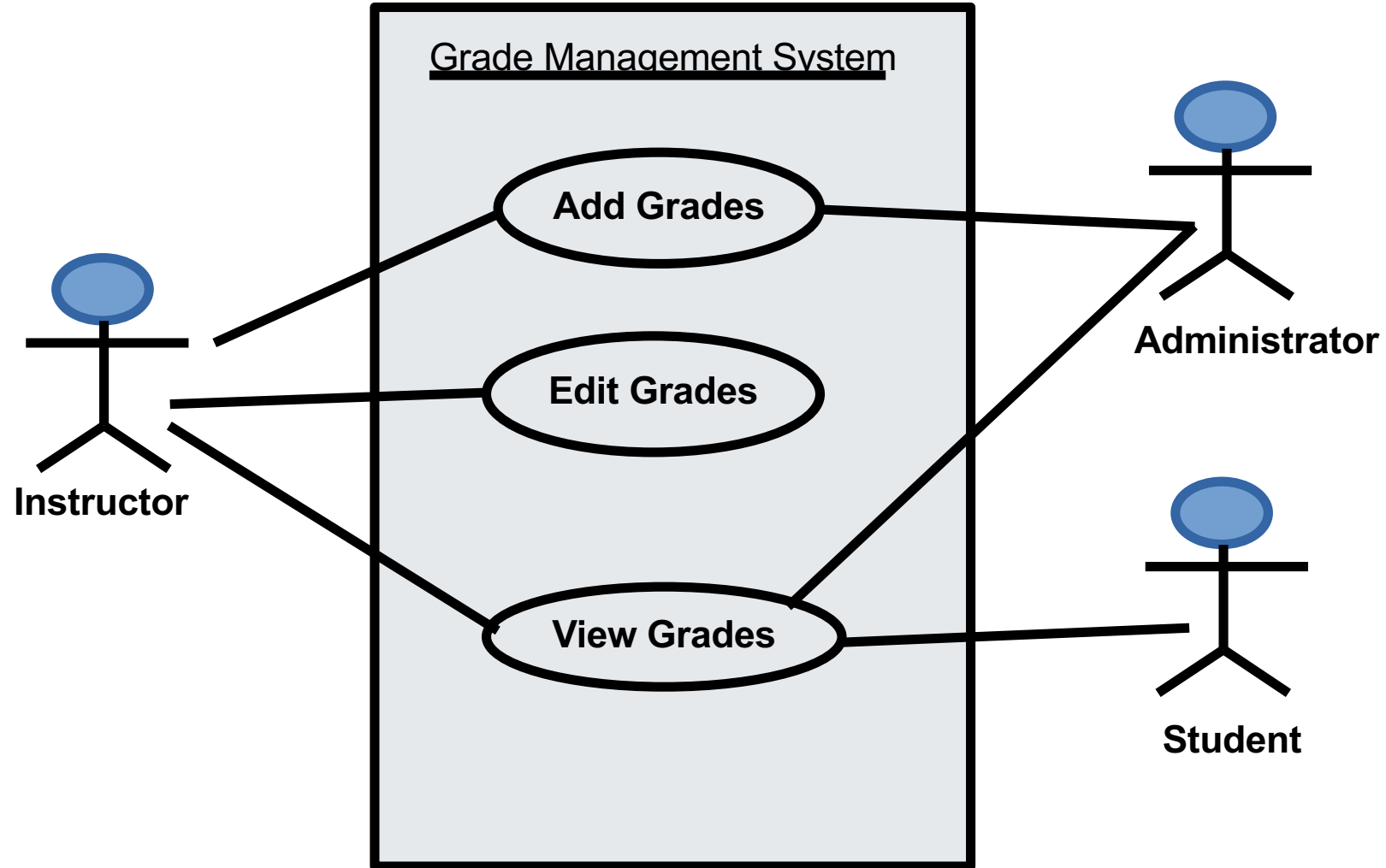
# UML Interaction Diagram



# Activity Diagram

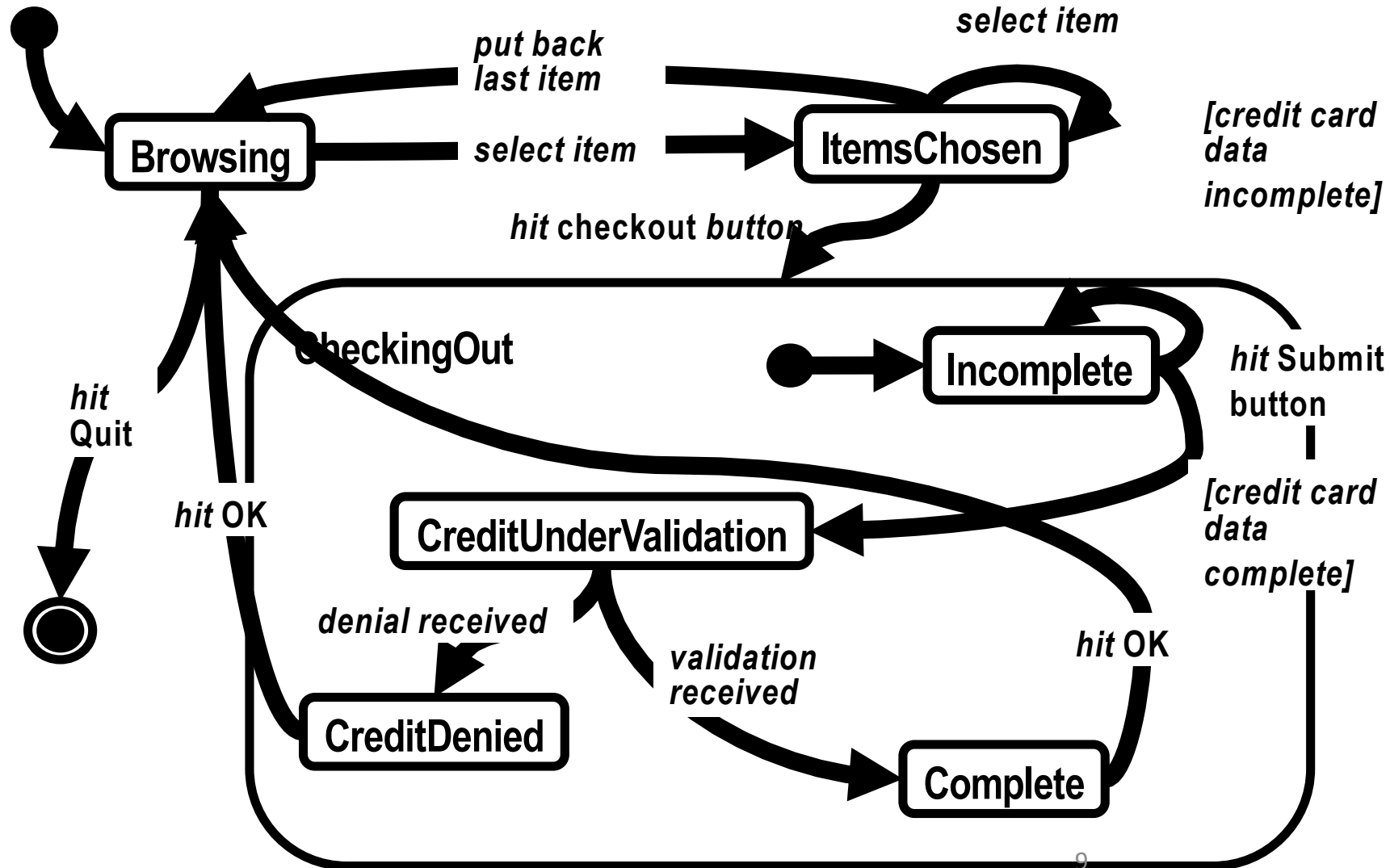


# Use Case Diagram



# State Diagram

## State Diagram for Online Shop





# UML diagrams

- **Structural UML diagrams**

- Class diagram
- Package diagram
- Object diagram
- Component diagram
- Composite structure diagram
- Deployment diagram

- **Behavioral UML diagrams**

- Activity diagram
- Sequence diagram
- Use case diagram
- State diagram
- Communication diagram
- Interaction overview diagram
- Timing diagram