Department of CSE

Activity and Sequence Diagram of ATM Machine

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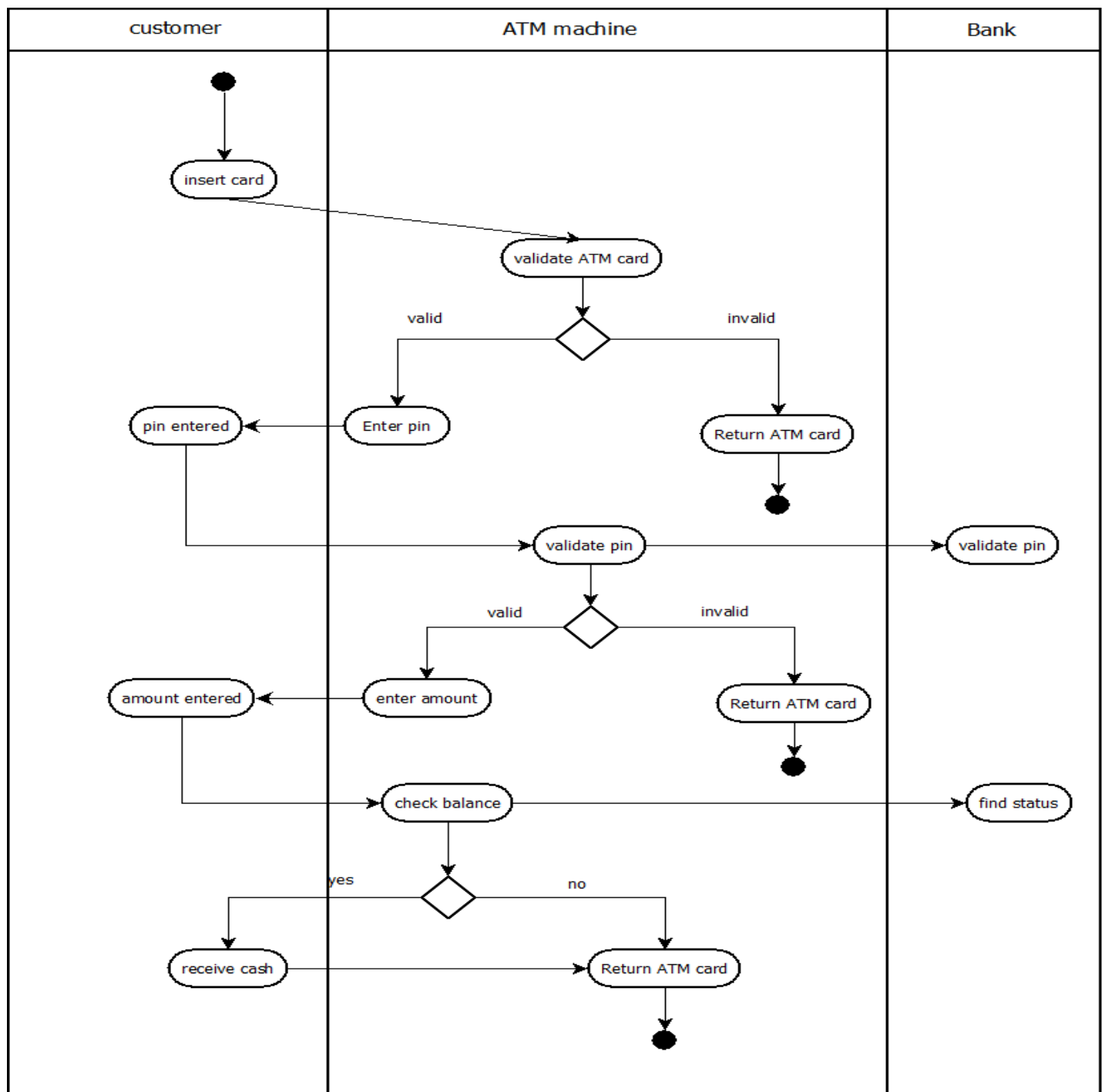
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What is an Activity Diagram?

An activity diagram visually presents a series of actions or flow of control in a system similar to a flowchart or a data flow diagram. Activity diagrams are often used in business process modeling. They can also describe the steps in a use case diagram. Activities modeled can be sequential and concurrent. In both cases an activity diagram will have a beginning (an initial state) and an end (a final state).

Activity diagram of ATM Machine

customer	ATM machine	Bank

- insert card
- validate ATM card
  - valid
  - invalid
- Enter pin
- pin entered
- Return ATM card
- validate pin
  - valid
  - invalid
- enter amount
- amount entered
- Return ATM card
- check balance — find status
  - yes
  - no
- receive cash
- Return ATM card

What is Sequence Diagrams?

Sequence Diagrams are interaction diagrams that detail how operations are carried out. They capture the interaction between objects in the context of a collaboration. Sequence Diagrams are time focus and they show the order of the interaction visually by using the vertical axis of the diagram to represent time what messages are sent and when.

Sequence Diagram of ATM machine:

User	ATM	Consortium	Bank

Display main screen (ATM → User)

Insert Card (User → ATM)

Request Password (ATM → User)

Enter Password (User → ATM)

Verify account (ATM → Consortium)

Verify card with bank (Consortium → Bank)

Bad bank account (Bank → Consortium)

Bad account (Consortium → ATM)

Bad Account Message (ATM → User)

Print receipt (ATM → User)

Eject card (ATM → User)

Request take card (ATM → User)

Take card (User → ATM)

Display main screen (ATM → User)