CITY UNIVERSITY

Assignment-03

Assignment Name: ATM Sequence Diagram

Course Code: CSE-325

Course Title: System Analysis & Design

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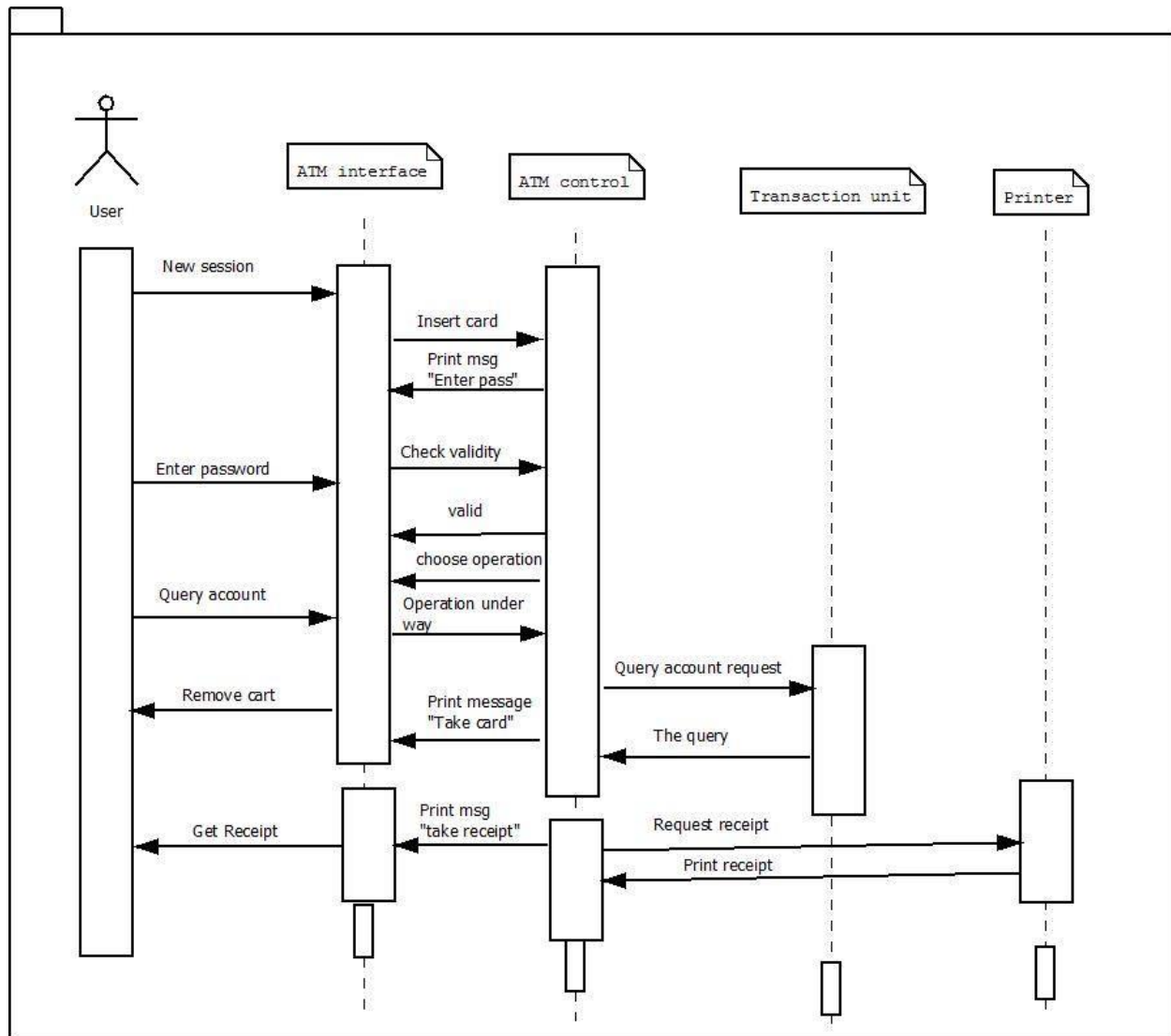|	
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What is sequence Diagram?

A sequence diagram (sometimes called event diagrams or event scenarios) shows object interactions arranged in time sequence. Sequence diagrams are typically associated with realization of a use case scenario. A sequence diagram depicts the objects participated in a use case scenario and the sequence of messages exchanged between the objects (also called the flow of event in textual form) needed to carry out the functionality of the scenario.

Description:

A sequence diagram shows objects and the messages that are passed between these objects for the particular collaboration. This is a simple sequence diagram example for ATM. It shows the interaction from inserting card to verifying account and rejecting card.

User

ATM interface

ATM control

Transaction unit

Printer

New session

Insert card

Print msg
"Enter pass"

Enter password

Check validity

valid

choose operation

Query account

Operation under
way

Query account request

Remove cart

Print message
"Take card"

The query

Print msg
"take receipt"

Request receipt

Get Receipt

Print receipt

How to draw Sequence Diagram

1. Identify who starts the interactions (which actor)
2. Describe the message exchange between actors and the business systems in textual form called flow of events
3. Consider each of the flows in the flow of events repeatedly to identify the participating objects which are required to get the task done.
4. Detail the message exchange between the participating object
5. Consider the creation and deletion of object lifeline as well
6. Review and touch up by running through the entire scenario