CS-255-T1150 System Analysis and Design

Module 6-3 Assignment: Interpreting UML Diagrams

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**Write a short, paragraph-length response interpreting the diagrams. Be sure to address the following questions:**

* **Activity Diagram –** The start of the activity a user has entered their PIN and it is verified. If the PIN is incorrect the ATM exits operations, if the PIN is correct, we proceed to the next step which asks for an amount. If the amount is invalid, it generates and then prints a receipt; if it is valid, the ATM dispenses the cash, generates, and then prints a receipt.
* **Sequence Diagram –** The start of this diagram the user inserts the card into the ATM, the ATM then asks for a PIN. The user enters the PIN at which time the ATM verifies it with the bank, a response is sent from the Bank to the ATM. If the PIN is valid the ATM will ask the user for an amount and the ATM dispenses the cash.
* The use case being described is the withdrawing money from an ATM machine.
* The interactions involved in this use case are – inserting card, entering pin, dispensing money, printing receipt, verification of PIN, generation of receipt. The information being passed is the PIN and withdrawal amount.

**These diagrams describe one basic design for this use case. Analyze the design by identifying *at least two* deficiencies in the logic or functionality of the current design. Think about ways that you could address these deficiencies to improve the logic or functionality of the design.**

It does not verify with the bank the amount being requested is available in the user’s account. It does not give users the ability to perform other tasks such as checking account balance or deposit money.

Diagram

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