6-3 Assignment: Interpreting UML Diagrams

Michael Wood

SNHU

Course Number: CS-255

Instructor: Chris Eppenger

Date Due: 02/16/2025

6-3 Assignment Interpreting UML Diagrams

The UML Activity and Sequence Diagrams illustrated in this scenario both describe the ATM withdrawal process. They are both quite simple in terms of design and do not have any security features to protect the user. There should be at least a timeout function, as well as a faulty pin card hold. A couple stages are missing, including a return card and an account page.

Interactions Involved:

* Enter card
* Ask for PIN
* Verify PIN
* PIN Validation
* Ask for Amount
* Enter Amount
* Validate Amount Available
* Dispense Cash
* Generate Receipt and Print

The information being transferred between the user, machine, and the bank is as follows: Card verification by insertion, PIN input including verification and validation, the amount requested and if the funds are available, disbursement of funds, and generating a report and returning to the user as a receipt.

I updated the UML Activity model to accommodate a more advanced security protocol and features that were not present in the original model. I feel that making these adjustments will result in a better and safer environment for the user. I have included the diagram depicted below.A diagram of a company

AI-generated content may be incorrect.