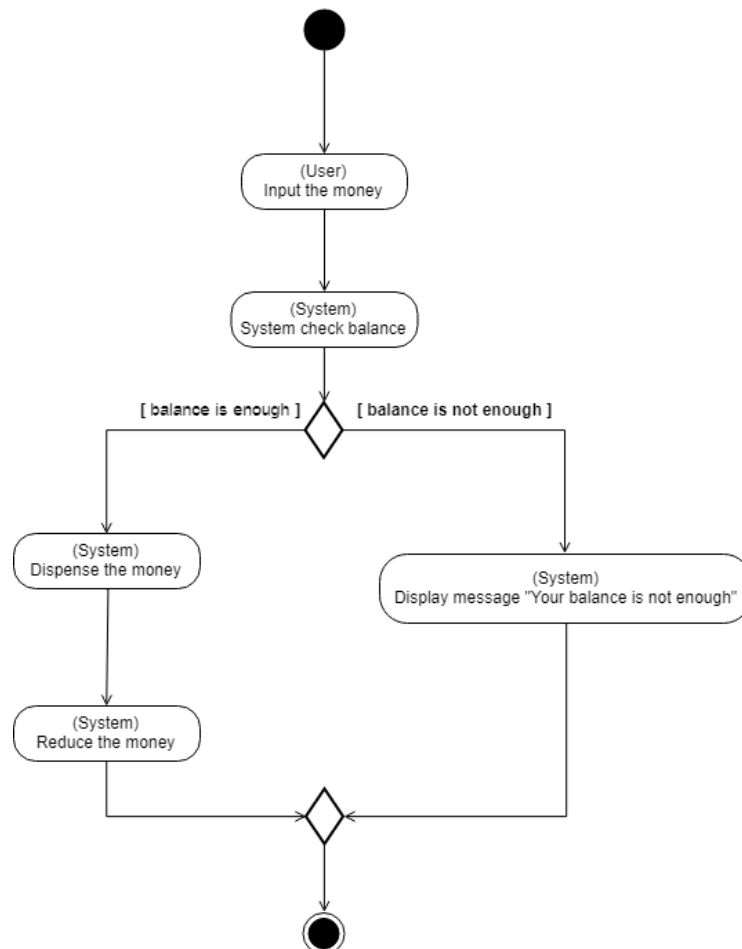


LAB 06 : Activity Diagram 1

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1. Withdraw the money with ATM system

The withdrawal process of an ATM system is triggered when the user clicks at the withdraw option. The user must already be authenticated with the system. The first step of operation is that the user inputs the amount of money into the system. Then, the system will check with the central database. If the balance is enough for the withdrawal amount, the system shall dispense the money and reduce the money from the balance. Otherwise, the system shall display a message "Your balance is not enough." and terminates the function.



2. Update product information

When the employee wants to update the information, he needs to select the product and click at the product information update option in the main page. The system shall redirect him to the product information update page with the selected product information. The employee must provide product information including the product ID, product name, product description, quantity and price. The format of each information is as follows:

- Product id – string of 5 characters, the first character is always 'p' and the rest of the id is numeric. The id cannot be repeated.
- Product name- the string of 15 characters (the space is not allowed)
- Product description- the text of 150 characters
- Product quantity-the positive integer
- Product price – the positive decimal number

Then, the employee must click confirm the information. If there is any invalid information, the system shall display the error message for the user. The pattern of error message for the invalid input is "The [information field] is not valid". [information field] is changed to the invalid information, for example, "The product id is not valid". The product information is validated in the following order, product ID, product name, product description, quantity and price. If all the information is valid, the information is stored in the database. When the database cannot be connected, the system shall display the message "Sorry, the database cannot be connected." and the system terminates. Otherwise, the system shall redirect the user to the main page.

