

Simple ATM Controller Implementation

Requirements:

Insert Cards → Enter Pins → Select Account → Selection Action

- Check Balance
- Deposit
- Withdrawal

1) Input Reader

Read information from card inserted

- Cardholder name
- Total # of Acc, each Acc number & balance
- Pin number

Base on this condition, it seems like I need User DB already holding user information for cross-checking

2) Enter Pin number <Authentication>

Add condition: If invalid pin number received loginFailCount++, If login fails 3 times the card will be blocked

⇒ But if the user success to login before loginFailCount==3, loginFailCount resets to zero, once valid pin# entered ⇒ cardholder can see main page

Implement Hashing

3) In 1st main page, card holder should select one specific Account

After selection, 2nd main page (a.k.a service menu section) will be shown

4) At service menu section, the card holder can :

- ① check Balance
- ② Add in money to account (Deposit)
- ③ Takeout money from account (Withdrawal)

5) Once cardholder request in 4) is completed, the system will ask

- [1] Return back to Main Page (Account Selection)
- [2] Take card and end Service

→ If I have enough time: add "bank transaction history"

