### CS586-Project1-A20327380-JianZhang

### **Events:**

- 1. Open()
- 2. Login()
- 3. IncorrectLogin()
- 4. IncorrectPin(int max)
- 5. CorrectPinAboveMin()
- 6. CorrectPinBelowMin()
- 7. Logout()
- 8. Deposit()
- 9. DepositAboveMin()
- 10. DepositBelowMin()
- 11. Balance()
- 12. Withdraw()
- 13. WithdrawAboveMin()
- 14. WithdrawPenalty()
- 15. NoFound()
- 16. Lock()
- 17. IncorrectLock()
- 18. IncorrectUnlock()
- 19. UnlockAboveMin()
- 20. UnlockBelowMin()
- 21. Suspend()
- 22. Activate()
- 23. Close()

#### **Actions:**

```
A1:
StoreData(){
    dop.pin = dop.temp p;
    dop.balance = dop.temp a
    dop.userID = dop.temp_y
}
A2:
IncorrectIDMsg(){
    Display the message for incorrect ID.
}
A3:
PromptPin(){
    Display and prompt the PIN.
}
A4:
IncorrectPinMsg(){
    Display the message for incorrect pin.
}
A5:
TooManyAttemptsMsg(){
    Display the message for too many attempts of entering pin.
}
A6:
DisplayMenu(){
    Display the menu.
}
A7:
MakeDeposit(){
    dop.balance = dop.balance + dop.temp d;
}
A8:
DisplayBalance(){
    Display the value of dop.balance;
}
```

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```
A9:
BelowMinMsg(){
   Display the message that the current balance is below the minimum required
    balance.
}
A10:
MakeWithdraw(){
   dop.balance = dop.balance - dop.temp_w;
}
A11:
BelowMinPenalty(){
   dop.balance = dop.balance - dop.penaly;
}
A12:
NoFoundMsg(){
   Display the message that there is no found in the account.
}
```

### **ACCOUNT-1**

```
open(string p, string y, float a){
    d.temp_p = p
    d.temp_y = y
    d.temp_a = a
    m.open()
}
pin(string x){
    if(x == d.pin){
        if(d.balance > 500)
            m.CorrectPinAboveMin()
        }else{
            m.CorrectPinBelowMin()
    }else{
        m.IncorrectPin(3)
    }
}
deposit(float d){
    d.temp_d = d
    m.Deposit()
    if(d.balance > 500){
        m.DepositAboveMin()
    }else{
        m.DepositBelowMin()
    }
}
balance(){
    m.Balance()
}
login(string y){
    if(y == d.userID){
        m.Login()
    }else{
        m.IncorrectLogin()
}
```

```
logout(){
    m.Logout()
withdraw(float w){
    d.temp w = w
    d.penalty = 20
    m.Withdraw()
   if(d.balance > 500){
        m.WithdrawAboveMin()
    }else{
        m. Withdraw Penalty()
}
lock(string x){
    if(x == d.pin){
        m.Lock()
    }else{
        m.IncorrectLock()
}
unlock(string x){
   if(x == d.pin){
        if(d.balance > 500){
            m. UnlockAboveMin()
        }else{
            m. UnlockBelowMin()
    }else{
        m.IncorrectUnlock()
}
```

## **ACCOUNT-2**

```
OPEN(int p, int y, int a){
    d.temp_p = p
    d.temp_y = y
    d.temp_a = a
    m.open()
}
PIN(int x){
    if(x == d.pin){
        m.CorrectPinAboveMin()
        m.IncorrectPin(2)
}
DEPOSIT(int d){
    d.temp d = d
   m.Deposit()
}
WITHDRAW(int w){
    d.temp_w = w
    m.Withdraw()
    if(d.balance > 0){
        m.WithdrawAboveMin()
    }else{
        m.NoFound()
}
BALANCE(){
    m.Balance()
}
LOGIN(int y){
   if(y == d.userID){
        m.Login()
    }else{
        m.IncorrectLogin()
```

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```
LOGOUT(){
    m.Logout()
}
suspend(){
    m.Suspend()
}
activate(){
    m.Activate()
}
close(){
    m.Close()
}
```