Homework7

田野

2017329621125

Use case 1

Use Case Name: Get balance

Summary: Customers use a vailed card to check the balance from a valid bank account.

Actor: ATM Customer

Precondition: ATM is displaying the idle welcome message

Description:

1. Customer inserts an ATM Card into the ATM Card Reader.

2. If the system can recognize the card, it reads the card number.

3. System prompts the customer for a PIN.

4. Customer enters PIN.

5. System checks the expiration date and whether the card has been stolen or lost.

6. If card is valid, the system checks whether the PIN entered matches the card PIN.

7. If the PINs match, the system ﬁnds out what accounts the card can access.

8. System displays customer accounts and prompts the customer to choose a type of transaction. Three types of transactions are Withdraw Funds, Get Balance, and Transfer Funds.

9. Customer selects Get Balance.

10. System checks that the account is valid.

11. System show the balance in the screen.

12. System ejects card.

13. System displays the idle welcome message.

Alternatives:

If the system cannot recognize the card, it is ejected and a welcome message is displayed.

If the current date is past the card’s expiration date, the card is conﬁscated and

a welcome message is displayed.

If the card has been reported lost or stolen, it is conﬁscated and a welcome message is displayed.

If the customer entered PIN does not match the PIN for the card, the system prompts for a new PIN.

If the customer enters an incorrect PIN three times, the card is conﬁscated and a welcome message is displayed.

If the account number entered by the user is invalid, the system displays an error message, ejects the card, and a welcome message is displayed.

Postcondition: Balance has shown in the screen.

图片包含 游戏机

描述已自动生成

Scenarios:

The costumer put the card into the ATM. Checking the balance.

The costumer put the card into the ATM, then choose to quit.

Test cases:

The card is invalid.

The card is valid and input the correct password.

The card is valid and input the incorrect password once, then quit.

The card is valid and input the incorrect password once, then input the correct password.

The card is valid and input the incorrect password three times.

Use case 2

Use Case Name: Transfer money

Summary: Customer transfer money to another account.

Actor: ATM Customer

Precondition: ATM is displaying the idle welcome message

Description:

1. Customer inserts an ATM Card into the ATM Card Reader.

2. If the system can recognize the card, it reads the card number.

3. System prompts the customer for a PIN.

4. Customer enters PIN.

5. System checks the expiration date and whether the card has been stolen or lost.

6. If card is valid, the system checks whether the PIN entered matches the card PIN.

7. If the PINs match, the system ﬁnds out what accounts the card can access.

8. System displays customer accounts and prompts the customer to choose a type of transaction. Three types of transactions are Withdraw Funds, Get Balance, and Transfer Funds.

9. Customer choose Transfer Funds

10. Customer input another card number

11. If the card number is valid, ATM shows the information of that card.

11. Customer input money.

12. If remain money is enough, then the transfer done.

13. System prints a receipt with a transaction number, the transaction type.

14. System ejects card.

15. System displays the idle welcome message.

Alternatives:

If the system cannot recognize the card, it is ejected and a welcome message is displayed.

If the current date is past the card’s expiration date, the card is conﬁscated and

a welcome message is displayed.

If the card has been reported lost or stolen, it is conﬁscated and a welcome message is displayed.

If the customer entered PIN does not match the PIN for the card, the system prompts for a new PIN.

If the customer enters an incorrect PIN three times, the card is conﬁscated and a welcome message is displayed.

手机屏幕的截图

描述已自动生成

Scenarios:

1. The customer input an invalid card number, then he decide to quit.
2. The customer input a valid card number. After checking the
3. The customer input wrong password once, then he decide to quit.
4. The customer input a valid card number, then check the information. He enter the amount, but the amount is not enough, then he change the amount. The transferring is success.
5. The customer input a valid card number, then check the information. He enter the amount, but the amount is not enough. Then he choose to quit.

Test Case:

1. Input a valid card number, then choose to quit.
2. Input an invalid card number, once, then choose to quit.
3. Input an invalid card number for three times, then quit.
4. Input an invalid card number, then input a valid number. Input the amount, which is less than the remain.
5. Input an invalid card number, then input a valid number. Input the amount, which is greater than the remain once. Then choose to quit.
6. Input an invalid card number, then input a valid number. Input the amount, which is greater than the remain once. Then input another amount, which is less than the remain.
7. Input an invalid card number, then input a valid number. Input the amount, which is greater than the remain for three times. Then input another amount, which is less than the remain.