

参考资料:

郑人杰等编著 《实用软件工程》 北京清华大学出版社
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孙永等编著 《现代软件工程》 北京希望电子出版社
张海帆 《软件工程导论》 清华大学出版社
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1. Problem summary

1.1 goals

ATM automatic teller machine can provide 24 hours uninterrupted service, simple operation, can be very convenient for users to provide withdrawals, transfer / remittance, query account information and other services, so that users can easily use, and help banks reduce pressure.

1.2 running environment

Operating system: Microsoft Windows more than 2000

Supporting the environment: IIS 5

Database: MYSQL

1.3 conditions and restrictions

In order to smooth, safe and effective operation of the system, the main computer software and hardware environment has some basic requirements.

	Server side	Client
hardware environment	P4/256MB/80GB above	PC 586/128MB/40MB above
software environment	Microsoft Windows XP	Microsoft IE 6.0 above

1.4 Performance requirement

1.4.1 data accuracy

A. When users use the system to withdraw money, they need to enter 50 or 100 multiples in the text box of the withdraw interface;

B. requires users to withdraw money at a sum of not more than 1000 yuan;

C. requires users not to pay more than 5000 yuan a day;

D. requires users to continuously enter passwords no more than 3 times;

1.4.2 Time characteristics

A. database can instantly record user's information, update the user's withdrawals, transfers, deposits and other records immediately.

B. can return the customer's information within 10 seconds when

the number of money or the number of transfers entered by users, so that the system can get the trust of users and speed up the operation efficiency of the bank.

1.5 Operation demand

1.5.1 fault handling

When the system is out of user input amount, or enter the wrong password more than three times, according to the fault report when a fault occurs, it should be to the business hall to check or call the customer service telephone consultation, or bank card will swallow.

1.6 Other requirements

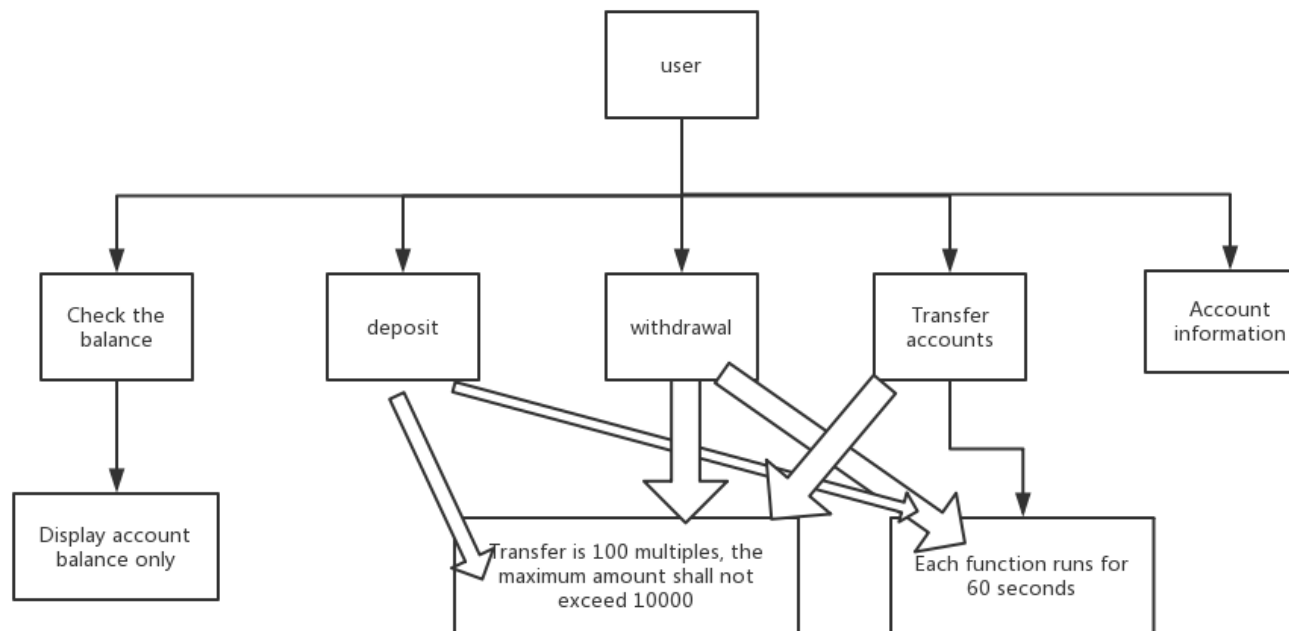
The pursuit of system security and portability is also the constant concept of our software system development. The system uses Java technology to develop, the system has good portability, and can run accurately in any environment. The user's information can be saved safely, without any information provided by the user without an authenticator, and can accurately record the amount of the user's deposit and the date of withdrawal.

2. Problem domain subsystem design

2.1 user problem domain design

Users have the right to query balances, deposit, withdraw money,

transfer, check account information. The specific function combination and requirements are shown in the following picture:



2.2 Administrator problem domain design

The administrator has the account opening, assists the customer to change the password (password freezing, password revision), according to the customer request examines the customer card operation information, may inquire the ATM machine the present condition, and operates ATM machine, the function decomposition follows:

