# System Analysis

**Ⅰ.Purposes**

Study ,understand and define the requirements for the ATM system(model of the system’s functional requirements).

**Ⅱ.Requirements Introduction**

According to the life of ATM business requirements and customer needs analysis, the system needs to achieve registration, login, deposit and withdrawal, query, transfer, change the password and other functions. The user can register a bank account with the identity account through the registration service and log in to the ATM system through the bank account after registration so as to save, withdraw money, check the account information and change the password in the system.

**Ⅲ.Requirements Analysis**

With the development of society, banks play an important role in people's daily life. ATM machines bring convenience to people's daily life. ATM database system makes cash machine high-speed and efficient work, less prone to data loss, statistical errors, make ATM machine more safe and convenient. The company is located in:This database system includes the functions of opening an account, depositing, withdrawing money, transferring money, inquiring about, changing a secret, etc., Among them has used the database stored procedure knowledge.

**Ⅳ.ATM System’s functional requirements**

**1. Login**

Login system needs to retrieve all user information. The system design must ensure that the user's security, once logged in can be done after login function. Only enter the account number and password in the case can log in successfully. When you log in to retrieve all the logged-in user's information, make sure that you are logged in to enter the account and the password is entered correctly.

**2. Search**

System inquiries business, in the case of the log in before they can conduct this business. When querying for information, the information of the account in the file is directly retrieved according to the account, and the user's name and account number and the balance in the account are prompted.

**3. Password modify**

System password to modify the business, to log in the case can be carried out this business. Enter the original password, then enter the revised password, and then confirm the new password to complete the business. Here you need to modify user data and save it in a file. Direct access to information here, modify the data and then save it to a file.

**4. Transfer**

System of the transfer business, to log in the case can be carried out this business. To accurately enter each other's account and enter the amount of transfer, and determine the transfer can be successful. Here you need to modify and save the two user data. Complete this business, you can enter the other account to find and match, and then modify the value of the two nodes are the last to save.

1. **Service selections**

With the rapid development of society, more and more foreigners come to China to work, study or travel. So if foreign friends want to use ATM machines, they can do business by choosing English services.This is service selections mean.

1. **Print receipt**

When the customer completes the deposit, withdrawal or transfer business, the ATM machine should provide the service of printing receipts. These receipts can sometimes be powerful evidence when a customer is defrauded or wrongly transferred.

1. **Deposit and withdraw**

The most basic function that ATM system should have. Customers can save money or take out money by using ATM machines.

1. **Binding with phone numbers**

When money is transferred into personal accounts by ATM system. Or when the money in personal accounts are taken out by ATM system, the customer's binding phone number will receive messages.