

Banking System

Introduction

It is a desktop application having main objective to design an online framework for banking system so that a user can open an account easily online .It gives user basic functionalities of online banking like checking balance and transferring money to another's account. It will reduce the workload from bank as well as it will be user friendly to use and complete the tasks more efficiently and save time for the user.

Development tools

1. NetBeans IDE 8.2 and MySQL 5.5
2. Languages : Java ,SQL
3. Libraries : JDBC

Features

1. Secure login- logout (password encryption)
2. User Friendly
3. Inexpensive

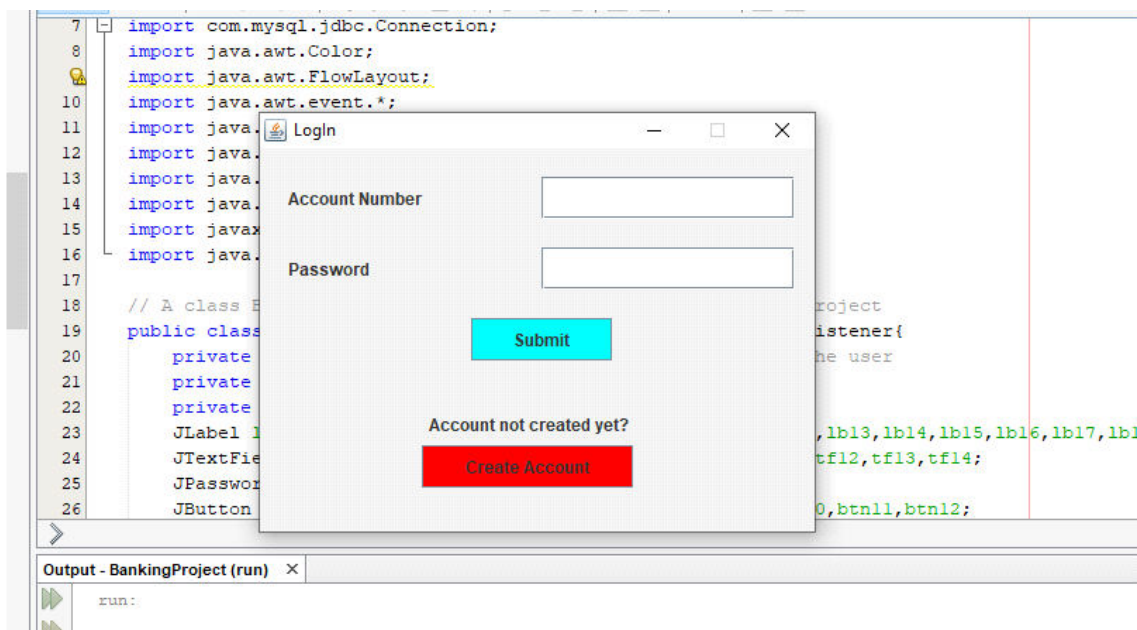
4. Fully informative

Functionalities

1. Login-

Inputs - Account Number and Password

Output- For correct details ,User will reach to his/her dashboard otherwise message dialog box will show message of wrong details.



If User doesn't have account already he can press create account.

2. Create Account

Inputs - Name ,Email, Phone Number, Age ,Account Type, Password, Deposit.

Outputs - It checks if all data is in correct format
.If all conditions are satisfied create
account and store data in database and
provide account number to the user.

Conditions for each data field:

1.Name -It should not be empty.

2.Email-contains only letters,digits,1 '@' and ends with .com

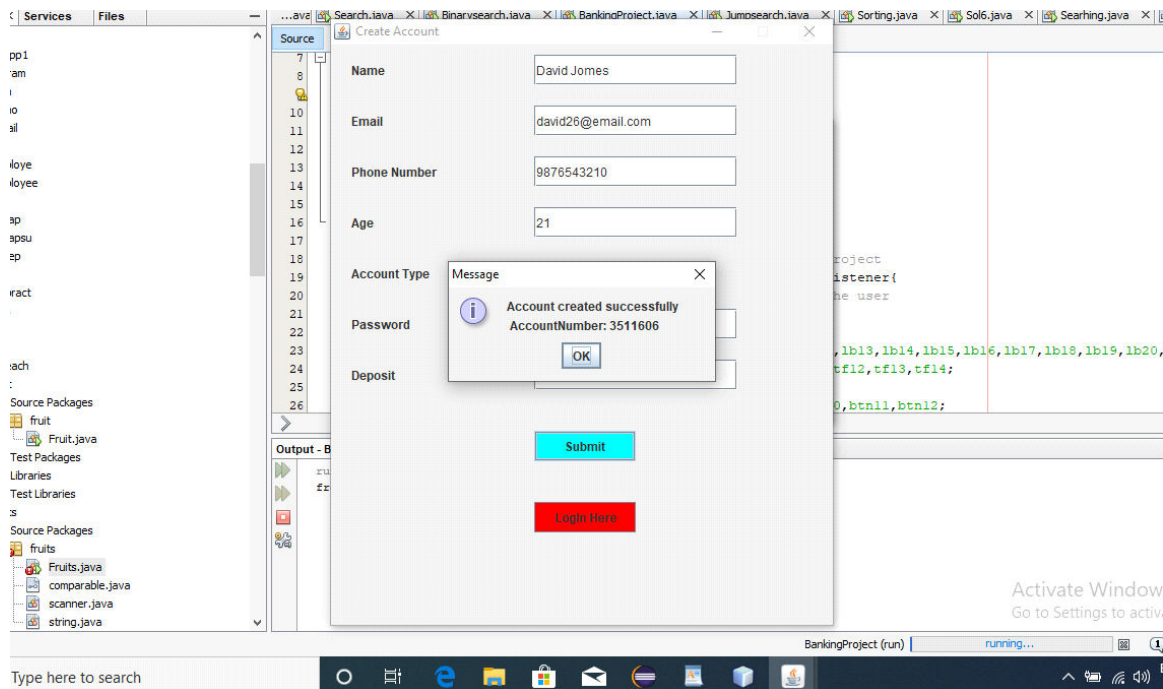
3.Age- minimum age required is 18.

4.Password -It should be strong enough atleast 8 characters long,1 special symbol and having lowercase and uppercase letters.

5. Type- RadioButton either Saving or a current account

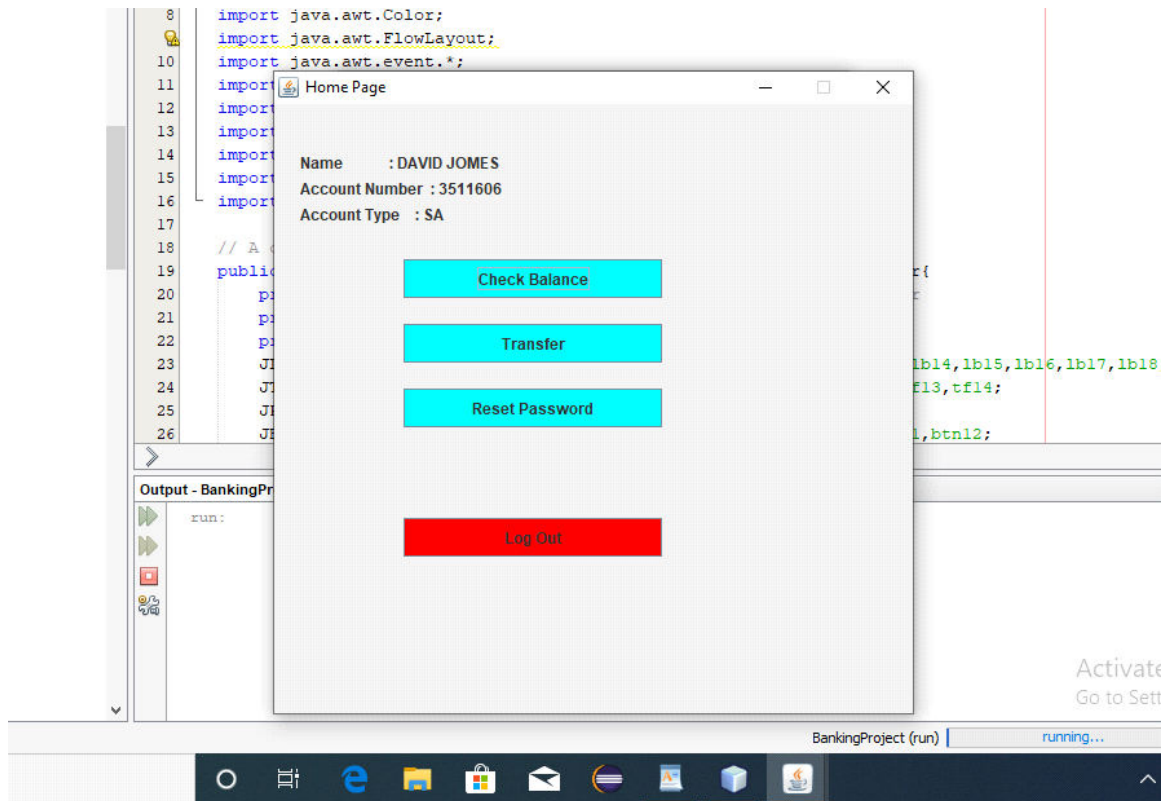
6.Deposit-Minimum balance required 1000.

**If any condition is unsatisfied show a message box showing all the conditions which remained unsatisfied.*



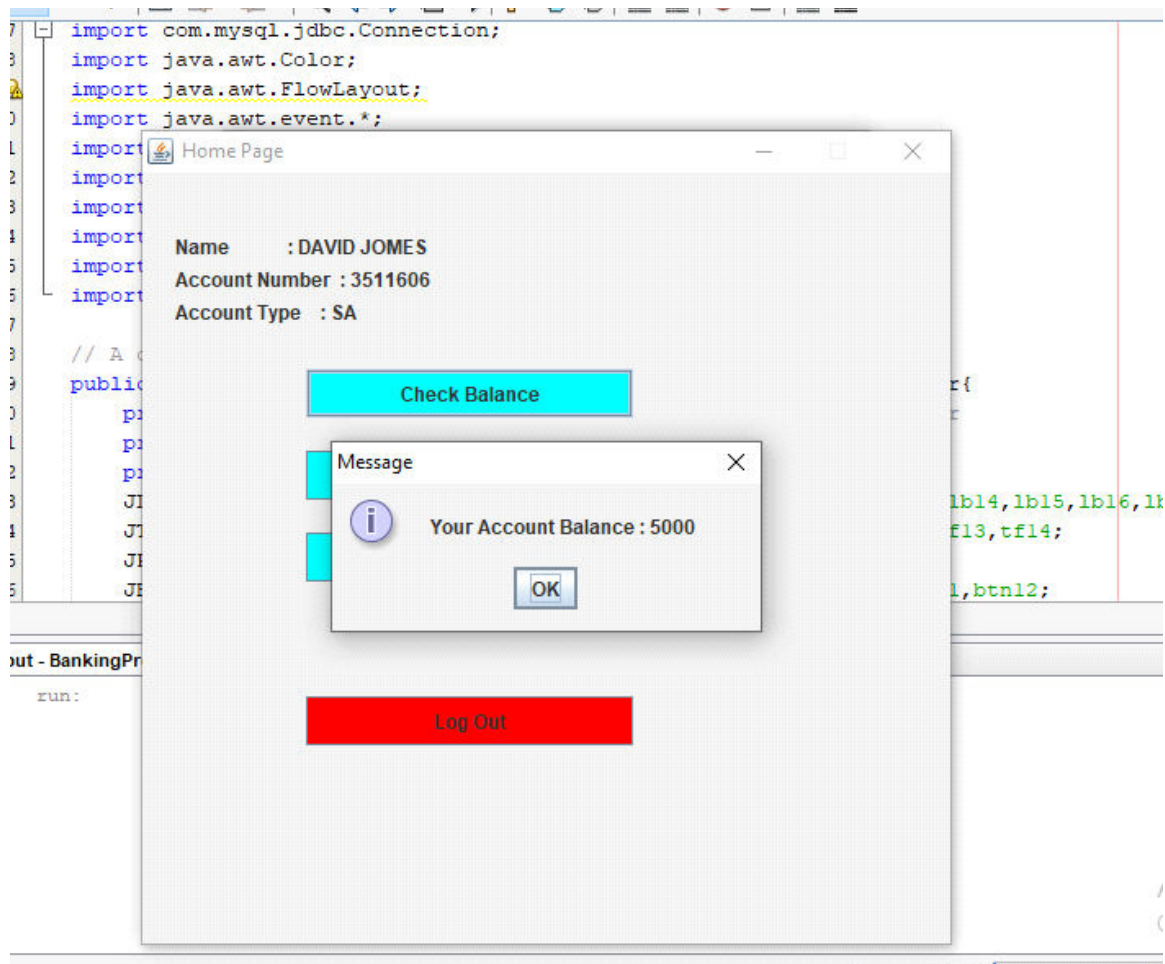
3. DashBoard

Once you get successfully login by account number provided and password you have set ,an interface of user dashboard will be shown over the screen displaying name, account number and account type of user.



4. Check Balance

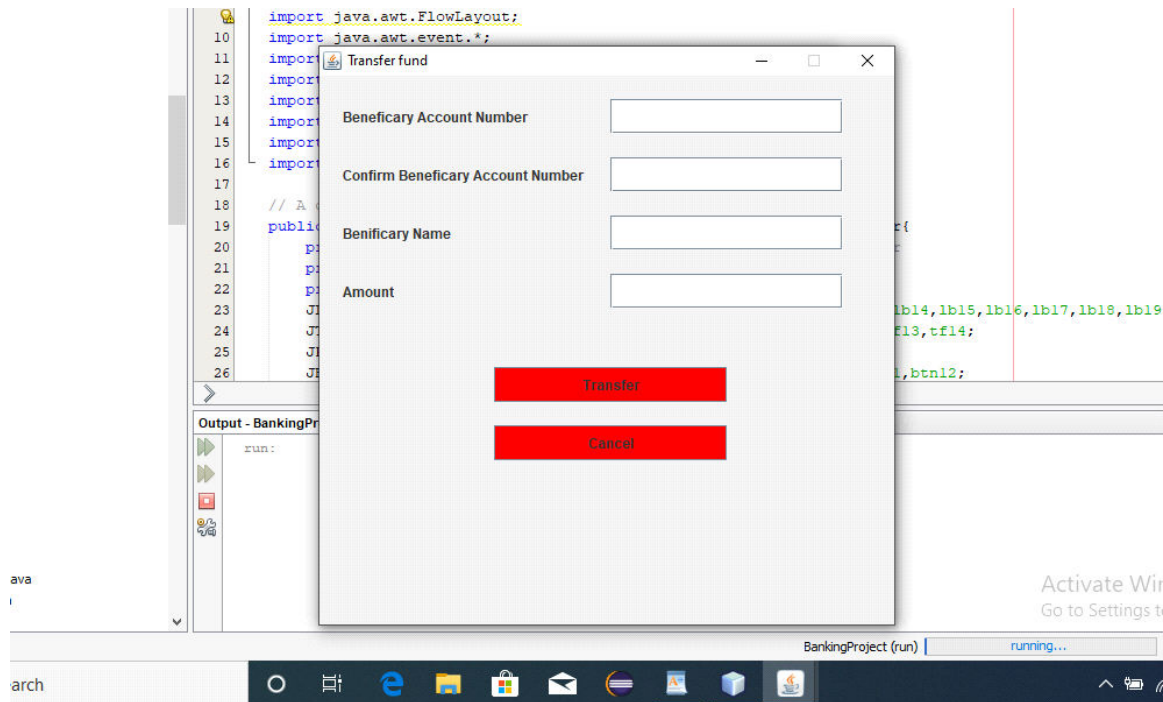
Clicking on this button will show the current balance in user's account by message dialog box.



5. Transfer

Inputs-Receiver's account number and name and amount to be transferred.

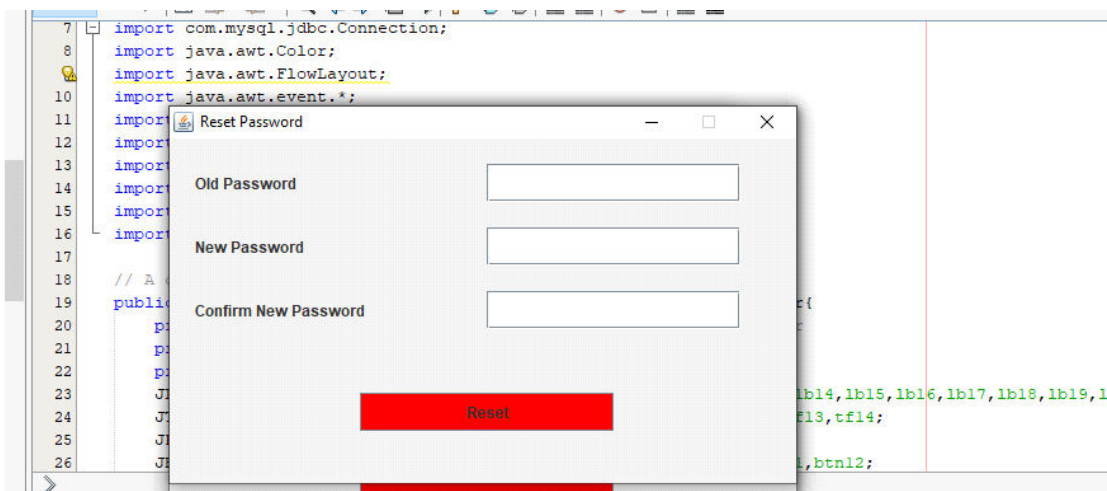
Outputs-Message dialog box will appear for "Transaction Successful" if details were correct else show "Wrong details entered".



6. Reset Password

Inputs -Old Password and new Password

Output-It will check if new password is strong too and if details are correct then password will get reset.



BackEnd Database-

There is a database bank containing a table details having the following structure-

```
MySQL Command Line Shell
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 1
Server version: 5.5.50 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use bank;
Database changed
mysql> describe details;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Name  | varchar(50) | NO |  | NULL |  |
| Email | varchar(50) | YES |  | NULL |  |
| PhoneNumber | varchar(10) | YES |  | NULL |  |
| Age   | int(5) | YES |  | NULL |  |
| Type  | varchar(5) | YES |  | NULL |  |
| Password | varchar(20) | NO |  | NULL |  |
| Balance | int(20) | YES |  | NULL |  |
| AccountNumber | varchar(10) | NO | PRI | NULL |  |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.11 sec)

mysql>
```