

# The Final Project Description

The project is about a financial management system in the bank

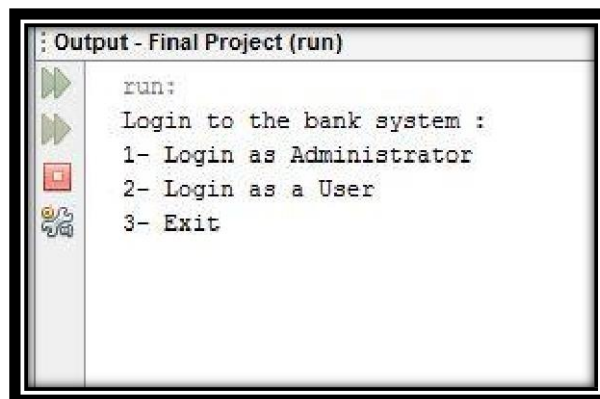
Write a java program to simulate a bank system; we want to simulate some of the services of any bank:

**\*The system will provide the features of:**

1. Create a new account.
2. Deposit an amount in the account.
3. Withdraw an amount in the account.
4. Modify the customer data.
5. Delete a bank account.
6. Search for a bank account.
7. View all bank accounts.

**Firstly: Login to the bank system:**

you should create this interface that has three choices (look the picture below)



## Login as administrator

If **you login as administrator**, you should create this interface to enter the username and the password (look the picture below):

```
1- Login as Administrator
Enter Username :
admin
Enter Password
123456
-----
```

If the input data is correct, the administrator can use the bank operations (look the picture below), If enter the wrong data, you should print "Error in username or password".

```
Enter the type of operation :
1- Create a new account
2- Deposit an amount in the account
3- Withdraw an amount in the account
4- Modify the customer data
5- Delete a bank account
6- Search for a bank account
7- View all bank accounts
8- Go back
-----
```

If the admin choose "**1- Create a new account**", you should enter the user's information (**Id, name, password, phone number**) and stored within array (look the picture below):

```
*Create a new account*
Customer ID number :
120140980
Customer Name :
abd
Customer Password :
123456
Customer's phone number :
0599999999
```

If the admin choose "2- Deposit an amount in the account", you should enter the customer ID number that you want to deposit money in his account, then enter the value of the money to deposit ( look the picture below )

```
*Deposit an amount in the account*
Customer ID number :
120140980
How much do you want to add ?
200
-----
```

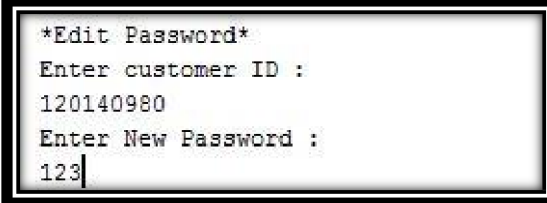
If the admin choose "3- withdraw an amount from the account", you should enter the customer ID number that you want to withdraw money from his account, then enter the value of the money to withdraw (look the picture below)

```
*Withdraw an amount in the account*
Customer ID number :
120140980
How much you want to withdraw ?
50
-----
```

If the admin choose "4- Modify the customer data", there are two options for to either edit the account password or modify the phone number, you should display this interface (look the picture below)

```
4
*Modify the customer data*
1- Edit Password
2- Edit Phone Number
3- Go Back
|
```

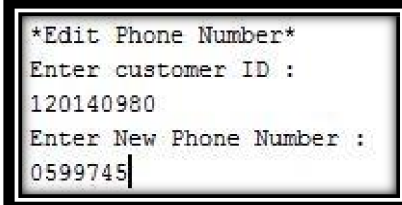
If the admin choose "**1- Edit password**", you should enter the **customer id** number that you want to edit the password, and then enter the new password (look the picture below)



A screenshot of a terminal window showing the 'Edit Password' form. The text is as follows:

```
*Edit Password*
Enter customer ID :
120140980
Enter New Password :
123|
```

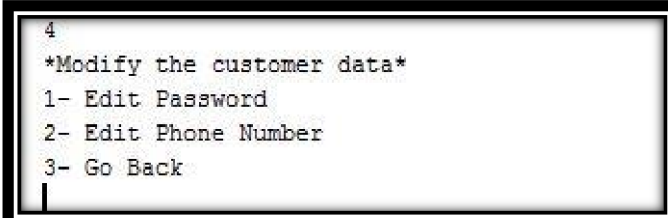
If the admin choose "**2- Edit Phone Number**", you should enter the **customer id** number that you want to edit the phone number, and then enter the new phone number (look the picture below)



A screenshot of a terminal window showing the 'Edit Phone Number' form. The text is as follows:

```
*Edit Phone Number*
Enter customer ID :
120140980
Enter New Phone Number :
0599745|
```

If the admin enter "**3- Go back**", you should return to the previous menu (the menu that has the operations)



A screenshot of a terminal window showing the main menu. The text is as follows:

```
4
*Modify the customer data*
1- Edit Password
2- Edit Phone Number
3- Go Back
|
```

If the admin choose "5 – Delete a bank account", you should enter the customer id number that you want to delete, and then you should delete the user information of this account from the array.

```
-----
5
*Delete a bank account*
Customer ID number :
120140980
```

If the admin choose "6- Search for a bank account", you should enter the customer id number that you want to search of, and then you should display the user information of this account.

```
6
*Search for a bank account*
Customer ID number :
120140980
ID : 120140980 | Name : abd | Password : 123 | Phone : $0599745755 | Balance : $150
-----
```

If the admin choose "7- View all bank accounts", you should display all accounts that were stored in the array.

```
7
*View all bank accounts*
ID : 120140980 | Name : abd | Password : 123 | Phone : $0599745755 | Balance : $150

ID : 120180980 | Name : joe | Password : Nice | Phone : $0599555555 | Balance : $0
-----
```

## Login as user

If you **login as user**, you should create this interface to enter the id user and the password:

```
*Login as a User*
Enter ID User :
120140980
Enter Password :
123
-----
```

If the user enters a valid account, you should display this interface (look the picture below)

```
-----
1- View bank account information
2- Withdraw an amount in the account
3- Exit
|
```

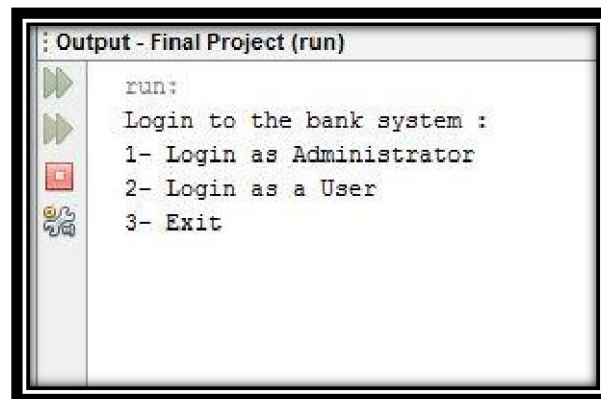
If the user chooses "**1- View bank account information**", you should display the user information for this account (look the picture below)

```
*View bank account information*
ID : 120140980 | Name : abd | Password : 123 | Phone : $0599745 | Balance : $150
-----
```

If the user choose "2- Withdraw an amount from the account", you should enter the value that you want to withdraw (look the picture below)

```
*Withdraw an amount in the account*
How much you want to withdraw ?
75
-----
```

If the user chooses "3- Exit", you should exit the system.



```
run:
Login to the bank system :
1- Login as Administrator
2- Login as a User
3- Exit
```

### Notes:

- 1- The project is individual work, not allowed to be a group
- 2- Any copy, both will get Zero in the project.
- 3- There will be a discussion for the project, if you delay the discussion time specified for discussion or if you are late in handing over the project. Make you lose 10% of your mark.
- 4- If the project is not discussed, will make you lose 50% of your mark.
- 5- Total mark for this project is 40% of the course's total mark.

**Mr. Ahmed Wadie Awwad**