

## MBank Project- phases 1-3

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### **Attached files:**

1. MBank.zip that includes 3 eclipse projects:
  - a. MBank- phase 1 code.
  - b. MBank DB- 2 classes for creating and deleting the tables necessary for the project
  - c. swing\_GUI- phase 2 code
2. 4 runnable JAR files:
  - a. initiated.jar- to create the database, the necessary tables and populate them with some data.
  - b. MBank.jar- for phase 1, including a CLI client.
  - c. MBankAdminGUI.jar- for phase 2.
  - d. DropTables.jar- to delete all the tables.
3. db-derby-10.10.1.1-bin.zip- empty derby database.
4. MbankWeb.war – dynamic web project for phase 3, should be run on Apache Tomcat V7.0.

### **Database:**

Please perform the following steps before running the project:

1. From the db-derby-10.10.2.0-bin folder, run the batch file ‘\db-derby-10.10.2.0-bin\bin\StartNetworkServer.bat’.
2. From command line, go to the location where you saved the jar files and run ‘java –jar initiated.jar’. Make sure that the 5 tables were created, that the properties table was populated and that some client actions were performed.
3. When you are finished running the project, you can run ‘java –jar DropTables.jar’ to delete the data and then run the file ‘\db-derby-10.10.2.0-bin\bin\StopNetworkServer.bat’

### **Phase 1:**

To test the project you can run ‘java –jar MBank.jar’ from command line. This will open a menu-

1. Admin
2. Client
3. Exit

option 1 doesn't actually have any available options and will direct you to use the admin console that is part of phase 2. All admin actions are available there. If you choose option 2, you will need a client ID

and password. When creating the DB, you also create 4 clients. Use any ID between 1000-1003. All of their passwords is "password".

Client options:

1. Update details
2. View details
3. Withdraw from account
4. Deposit to account
5. Create a deposit
6. Pre-open a long deposit
7. View account details
  
8. View client deposits
  
9. View client activities.

Limitations-

You will see the option of jumping to the previous level after performing any action. This will take you back to the main menu and you will need to re-enter the ID and password. Please use this any way, otherwise you will not get the expected results.

**Phase 2:**

double click on "MBankAdminGUI.jar". This will open the admin console and you will be asked to log in. the user and password are system/admin. Through this UI you will be able to run any admin action that is required.

**Phase 3:**

to use the web client follow the following steps:

1. Add "MbankWeb.war" to apache-tomcat-7.0.54\webapps folder.
2. From command line, go to the apache-tomcat-7.0.54\bin folder on your computer and run "startup.bat".
3. Open a web browser (e.g. Google Chrome) and go to http://localhost:8080/MBankWeb.
4. To log in- use any ID between 1000-1003. All of their passwords is "password".
5. You should be able to perform all the necessary operation for an Mbank client.