

Project - Build It Phase

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1. Instalation

We have decided to use Java 17 for our approach, the version can be easily downloaded and installed, following this link:

<https://www.oracle.com/java/technologies/downloads/#java17>

For our installation we did it in ubuntu, with the following command

```
1 $ apt install openjdk-17-jdk openjdk-17-jre
```

2. How to run it

In the folder we share you will find the source code and .jar files as follow:

```
BetterMBway/  
├── bin/  
├── src/  
│   ├── Client/  
│   │   ├── MBeC.java  
│   │   └── mbec.jar  
│   ├── bank/  
│   │   ├── BankServer.java  
│   │   ├── Card.java  
│   │   ├── ClientThread.java  
│   │   ├── bank.jar  
│   │   ├── bank.java  
│   └── store/  
│       ├── store.jar  
│       └── store.java
```

, to run each of them just open a terminal window in the folder with the .jar you want to run, for example to run the bank you go to the the bank folder directory, and put the desired command for example :

```
1 $ java -jar example.jar arg1 arg2
```

in the command you can change the file you want to run, changing "example.jar" to the desired file. To run the client you would use the command :

```
1 $ java -jar mbec.jar arg1 arg2 etc..
```

The arguments given follow the same structure as requested in the script, for example the complete command for creating a new user would be:

```
1 $ java -jar mbec.jar -n 100
```

To run the server an example would be, without arguments:

```
1 $ java -jar bank.jar
```

or with some combination of arguments:

```
1 $ java -jar bank.jar -p 30032 -s test.auth
```

For the store, or any other operations is the same idea.

Please ensure that you do not modify the provided file structure as it is essential for the proper functioning of the program. The MBec and Store modules rely on the bank.auth file to be present in their respective root directories. Note that bank.auth is the standard name of this file, although you may choose to use a different name if necessary. Do not delete any file during execution.

3. Other Important stuff

- In the bank source code there are three files just to facilitate the development, and reading of the code, so that there is not one file with lots of lines of code. So it is understood that those files could all be in the same file without any problem, thus following the request by the teacher.
- If you have a java version above or lower 17 it is possible that the code will work without problems. But in case of any errors we advise you to use java 17, because it is the only one that we can confirm that works without any errors.
- We remind you that after running the bank .jar file, you must place the .auth file created in the client and store directory by hand, using any command or method to copy and paste the file.