Program packages Template

Note: Remove the text written in red then replace them with your answers.

1. Student/Project Information:  
   Here you need to fill in information related to you and the selected project.

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| Student Name: | Alaa Hossam Eldin Maamoun  Aly Mahmoud Aly Ahmed  Abdelrhman Mohamed Azouz |
| Student’s Section Number: | 3 |
| Selected project: | Bank Management System |
| Project description: | Our project is bank management system that will support creating accounts for new clients, login for old clients and banking transaction (Withdraw & Deposition). |

1. Code Information:  
   Here we want you to write what your code does in words. Therefore, for each a group of lines you must tell us what it outputs.

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| # | Line number (from-to) | Function name | Description |
| 1 | 12-40 (Database Class) | Login | This function receives login parameters(username & password) check them with the existing usernames and password for created accounts and returns integer (1) if exist, (0) if not exist,  (-1) for SQL exception  And (-2) for class not found exception |
| 2 | 41-64 (Database Class) | registration | This function receives all registration required data (username , password ,address , age , national id ,gender ,email ,balance) and insert them into the database table assigning creating new account |
| 3 | 65-94 (Database Class) | getData | This function receives username and an object of Account class to be able to access account data from database and put them in Account parameters to view them on GUI frames and make operations on balance. |
| 4 | 95-118 (Database Class) | updateBalance | This function receives an object of WithdrawC and update new balance after withdraw operation performed into database table |
| 5 | 119-142  (Database Class) | updateBalance | This Method is overloaded from the previous method . it takes an object from Deposition class and update new balance after withdraw operation performed into database table |
| 6 | 35-39 (Account Class) | initBalance | Initiate new account balance with 200L.E |
| 7 | 30-61 (Officer Class) | login | Receives officer ID to login with it to the client interface |
| 8 | 25-29 (Depostion Class) | updateBalance | Adds the deposited money to the current balance and return the updated balance |
| 9 | 25-28  (WithdrawC Class) | checkBalance | A Boolean function Checks if the current balance is greater than or equal the withdrawn amount and return true else return false |
| 10 | 29-39  (WithdrawC Class) | updateBalance | Subtracts the withdrawn money from the current balance and return the updated balance |

1. Snapshots:  
   Here you need to upload screenshots taken by you when executing your project.

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| # | Inputs | Outputs | Screenshots |
| 1 | Invalid Officer ID | Error Massage  "Invalid officer id" |  |
| 2 | Valid Officer ID | Information Massage called Success  “Login successfully”  And enter the customer interface |  |
| 3 | Invalid account’s Username & Password | Error Massage  " Invalid username or password" |  |
| 4 | Valid Account’s Username & Password | Information Massage called Success  “Login successfully”  And enter this account’s Account Details interface |  |
| 5 | Enter the Withdrawn amount of money | Respond to this withdraw request after checking if this amount less than the current balance or not |  |
| 6 | Subtracting the amount of withdrawn money from the current balance | The Account’s Account Details interface after updating the balance after a withdraw operation |  |
| 7 | Enter the deposited amount of money | Respond to this deposit request |  |
| 8 | Adding the amount of deposited money to the current balance | The Account’s Account Details interface after updating the balance after a deposition operation |  |
| 9 | Logout and back to the Customer interface and begin to register | Registration interface |  |
| 10 | Registration for an already existing account | Error Massage  "Account already Exist" |  |
| 11 | Registration for a new account | Information Massage called Success  “register successfully” |  |