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IT306-001

Phase 5

**Requirements Documents**

|  |  |  |  |
| --- | --- | --- | --- |
| Requirement | Points Possible | Points Award | Comment |
| Result of testing procedure | 10 | 10 | Shows valid and invalid inputs for all the working method |
| Class code ‘matches’ class diagrams | 15 | 15 | Code follows class diagrams.  Inheritance from account. Account is abstract superclass. User is composed of accounts |
| Acceptable OO Design | 15 | 15 | Efficient OO design for each of the classes |
| All Appropriate Exception Handling | 15 | 15 | Code throws an Illegal Argument Exception when there is an error. Has try and catch statements to catch the Exception. |
| Efficiency of class code and exception | 10 | 10 | Use linked list, and arrays  Use constant and static variables/ |
| Handling Implementation follows design provided by Use Cases and Activity Diagrams | 10 | 10 | Has the same methods as the use case (register, login, edit profile, account, print summary, etc.) |
| Use of files | 10 | 9 | Account and transactions were read from a file and stored in objects  Account number and routing number need to match the file account number and routing number in order for the transactions to be read. |
| Correct use of dynamic data structures | 20 | 10 | Used linked lists to store transactions |
| Code Efficiency and design (implementation) | 10 | 10 | Has different method for each part of the program  However, the search feature is not completed due to time limitation |

**Testing plan**

Register

* Valid
  + First Name: Rusul
  + Last Name: Kamal
  + Email: rkamal5@gmu.edu
  + Username: rkamal5
  + Password: L0ngP@33word!
  + Matching Password: L0ngP@33word!
* Invalid
  + First Name: Rusul
  + Last Name: Kamal
  + Email: rkamal5gmuedu
    - Does not have a '@' or '.'
  + Username: rkamal
    - Not long enough
  + Password: Long!
    - Not long enough and does not meet the requirement
  + Matching Password: L0ng
    - Does not match the password previously entered

Login

* Valid
  + Username: rkamal5
  + Password: L0ngP@33word!
* Invalid
  + Username: rkamal
  + Password Long!
    - Incorrect username and password

Profile Setting

* Valid
  + Email: rkamal6@gmu.edu
  + Username: rkamal6
  + Password: L0ngP@33word\*
* Invalid
  + Email: rkamal5gmuedu
    - Does not have a '@' or '.'
  + Username: rkamal
    - Not long enough
  + Password: Long!
    - Not long enough and does not meet the requirement

Edit Account (add/remove account)

* Valid
  + Bank Name: capital one
  + Routing number: 1
  + Account number: 2
  + Confirm account number: 2
* Invalid
  + Bank Name: capital one
  + Routing number: 34324135134
  + Account number: 2313531254
  + Confirm account number: 421

Account and routing numbers don’t match any of the account/routing numbers on the file.

**Change/Documenting log**

* The routing number in the system is not 9 digits long
* The account number in the system us not 9-10 digits long
* One digit is used for routing, account number for simplicity
* The search feature is not complete due to time limitation
* The print summary does not print into a file due to time limitation
  + It is displayed using JOptionPane
* The system can't make transaction since it’s a dashboard, not a bank
  + But it can read the transactions from a file
* There are few security concerns with the system such as:
  + Password showing when it is being typed
  + The file that contains bank information can be read by anyone.