<https://umsystem.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=765c529e-c7a1-4186-a756-b04c004c6eb8>

|  |  |  |
| --- | --- | --- |
| user\_id | username | password |
| 1 | bobby | heart |
| 2 | tort\_reform | htr\_32d |
| 3 | kittykat | password |
| 4 | fan123 | p0ewn |
| 5 | tomyy\_1998\_\_ | 12345 |
| 6 | lowpunny1 | 86804 |
| 7 | asad\_miker | awef3 |
| 8 | tom\_riddle | v0ld3m0rt |
| 9 | qwerty | abcde |
| 10 | jaws0n | jaws0n |
|  |  |  |

Unfortunately, the MySQL instance I used for the app is local to my machine, so the grader will be unable to connect to the database featured in the presentation.

**FormField**

- name

- widget

- type

- value

FormField

getName

getWidget

getValue

setValue

**App**

- window

- loginWindow

- chart

- transaction

- nameField

- passwordField

- signInButton

- registerButton

main

mainWindow

login

signIn

register

getMenu

**Properties**

- table

- rowid

- amountField

- dateField

- descriptionField

- categoryField

- updateButton

- insertButton

- Category

Properties

populate

insertRecord

updateRecord

**Chart**

Chart

**Transaction**

- table

- properties

- args

- data

- columnNames

Transaction

populateProperties

populate

exportToCSV

**Database**

- connect

- statement

- preparedStatement

- metaData

- resultSet

- results

-credentials

- userId

readDataBase

getRow

setUserId

getUserId

setCredentials

close

|  |  |  |
| --- | --- | --- |
| Feature | Implemented | Comments |
| Register New User | Full |  |
| Login Existing User | Full |  |
| Display Income Details | Full |  |
| Display Expense Details | Full |  |
| Data Management | Full | System performs rudimentary check for username and password match |
| Data Security | Missing |  |
| Input Validation | Partial | Password uses echo to hide characters, |
| Search Results | Partial | Table can be sorted according to column |
| Reports Generation | Partial | Table can be exported to csv file |
| Email Reports | Missing |  |

The program is split into five main files — App, which contains the main functionality, including sign in and registration features, Chart, which handles modelling user data as a variety of different diagrams, Transactions, which handles exporting user data to various file formats, and Properties, which handles editing and adding new user transactions.

Chart is currently under development, and this is because I was unable to install the Maven automation tool, that would have allowed me to install the package JFreeChart which offers a variety of out-of-the-box chart and graphing functionality.