**VORMUND**

*Defect Log*

**Team 6**

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**Inspection Defect Log**

**Product: GUI**

**Date: 9/12/2013**

**Author: Margarita Lee Li**

**Moderator: Adam Rice**

**Inspectors: Seth Cook, Samuel Marshall**

**Secretary: Mitchell Stendal**

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| Defect # | Description | Severity | How Corrected |
| 1 | Website module does not contain secure questions and answer component. | 1 | Website2 module was created to add secure questions. |
| 2 | All the modules with textfield are not checking for blank entries. | 1 | Added a check for when users leave a blank entry for all modules. |
| 3 | Clicking on the secondary combo-box item in UserAccount module should show the information of selected item. | 3 | Deleted the show button and created an event function for showing the information of the selected item in the secondary combo-box. Show button changed to update button. |
| 4 | LoginWindow should be closed when ‘Login’ button opens up. | 3 | LoginWindow is now being disposed after a new Window is open. |
| 5 | There should always be only one window open at the time. | 3 | All modules now are disposed when they are done. |
| 6 | LoginWindow is not set as MainClass in executable | 1 | Point the MainClass to LoginWindow class |

**Product: Encryption**

**Date: 9/12/2013**

**Author: Adam Rice**

**Moderator: Samuel Marshall**

**Inspectors: John Vall, Margarita Lee Li**

**Secretary: Seth Cook**

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| Defect # | Description | Severity | How Corrected |
| 1 | The encryptBlob() method within the Encryption class has two arguments, the user’s password key and the data array to be encrypted. The variables were accidentally switched in the method. (Every place where the key was intended to be used, the data variable was used instead.) | 1 | The two variables were re-named to make the distinction between their use clear, and their use within the method was corrected. |

**Product: Database Schema/Class**

**Date: 9/12/2013**

**Author: Seth Cook**

**Moderator: Margarita Lee Li**

**Inspectors: Adam Rice, John Vall**

**Secretary: Samuel Marshall**

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| Defect # | Description | Severity | How Corrected |
| 1 | Function Statement.getBinaryStream does not exist with the SQLite version of JDBC. | 1 | Replace with Statement.getBytes |
| 2 | Function Statement.setBinaryStream does not exist with the SQLite version of JDBC. | 1 | Replace with Statement.setBytes |
| 3 | Calling a ResultSet.get function before ResultSet.next raises and SQLException | 2 | Call ResultSet.next before ResultSet.get |
| 4 | SQL can be injected into update/get/insertBlob functions | 3 | Check input strings for SQL and throw an error if they contain SQL syntax |

**Product: Create/Update API Functions**

**Date: 9/12/2013**

**Author: Mitchell Stendal**

**Moderator: John Vall**

**Inspectors: Margarita Lee Li, Seth Cook**

**Secretary: Samuel Marshall**

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| Defect # | Description | Severity | How Corrected |
| 1 | The newUser function of DBHelpers was not hashing the password provided by the user, and would have been a security threat | 2 | A call to the encryptHashString  was made to secure the password String |
| 2 | This problem... | 3 | tmp |

**Testing Defect Log**

**Product: GUI**

**Date: 9/12/2013**

**Author: Margarita Lee Li**

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| Defect # | Description | Severity | How Corrected |
| 1 | The checking for blanks on textfields was not working properly. | 1 | The variables used where not the correct ones. Switched them to correct ones. |
| 2 | Switch statements in mainCB and subCB functions were not compiling properly. | 1 | Changed the switch statements to if-else with a compareTo. |
| 3 | Update button was only showing the newBank module. | 2 | Needed to add a check for main combo-box and sub combo-box to open the correct windows. |

**Product: Encryption**

**Date: 9/12/2013**

**Author: Adam Rice**

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| Defect # | Description | Severity | How Corrected |
| 1 | The implementation I used within the Encryption class method decryptBlob() to convert byte arrays to strings (Arrays.toString(byte[])) did not correctly convert the byte array to a character string. This issue led to an IllegalArgumentException, which halted the program. | 1 | After investigating alternative ways of converting byte arrays to strings, I used the following method: String temp = new String(byte[]). This solved the issue. |

**Product: Database Schema/Class**

**Date: 9/12/2013**

**Author: Seth Cook**

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| --- | --- | --- | --- |
| Defect # | Description | Severity | How Corrected |
| 1 | The Blob object is not supported by the SQLite version of JDBC | 1 | Read Blobs as a byte array |
| 2 | The database file does not exist within the java resources tree | 1 | Create an empty file where the database file belongs |
| 3 | The SQL Schema file does not exist within the java resources tree | 1 | Copy the Schema file to the proper location in the resource tree |
| 4 | ResultSet.isClosed is an unimplemented abstract function | 2 | Remove calls to the function and test if open using try catch statements |
| 5 | Statement.isClosed is an unimplemented abstract function | 2 | Remove calls to the function and test if open using try catch statements |
| 6 | Resource Database file becomes corrupted in executable transfer | 3 | If code is uncorrupted, users will lose data. Write a function to empty the database file |

**Product: Create/Update API Functions**

**Date: 9/12/2013**

**Author: Mitchell Stendal**

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| Defect # | Description | Severity | How Corrected |
| 1 | ResultSet in newUser is TYPE\_FORWARD\_ONLY therefore cannot call .first() upon the resultSet without causing an error | 1 | After researching the problem, .next() is used instead to check if resultSet it empty |
| 2 | Encrypted password and userName raise database constraint error | 1 | The returned encrypted password was too large and has been modified |
| 3 | Function NewWeb was improperly storing the security question/answer pairs into the CSV style string to be put into the database | 1 | Modified QA string creation for loop to properly place delimiting semicolons |