

Problem	Solution
Lines of commented code or unused code	Refactored the classes by removing all comments and then adding necessary ones
Constructors of some classes are long methods. Specifically Template.java and ProfilePage	<p>The solution is to extract some methods. As well as to create classes for JPanels with lots of contents.</p> <p>The list of extracted methods are:</p> <p>Template</p> <ul style="list-style-type: none"> <li>• setPanelContainer()</li> <li>• setSideButtons()</li> <li>• setHamBurgerMenu()</li> <li>• setSideBar()</li> <li>• setIcon()</li> <li>• setPanelContainer()</li> <li>• setSideButtons()</li> <li>• setHamBurgerMenu()</li> <li>• setSideBar()</li> <li>• setIcon()</li> </ul> <p>ProfilePage</p> <ul style="list-style-type: none"> <li>• setBookMateLabel(String)</li> <li>• setProfileInfo()</li> <li>• setPhoto()</li> </ul>
DBBookStatus was created in the wrong package	Class was refactored so that its package location was changed, and all classes that referenced DBBookStatus had to change their references to the new package.
A design issue was the local database which required manual setup for the user and did not allow for real time updates as required by the application.	The solution is to adapt an online database created using an online hosting service <i>freedatabase.com</i> and <i>mysql</i> .
Friends list was not being displayed properly; users were missing from the list.	A new variable was set equal to the specified user's ID, and returned by the getUserID method in the DBUser class.
Proper due date was not being displayed on the GUI as it was always behind by a month.	The Date import that Java uses has the months starting from zero, so January is the 0th month of the year. To fix this, the integer for the month was increased by one.
Returning a book doesn't update the values in the SQL table.	Loops were used to search through ResultSets and executeUpdate was used to update the table.