Library CS 3330 Final Project Documentation

UI Development: This project was created using JavaFX. There are three .fxml documents in the project including FXMLMainMenu.fxml, UserSignin.fxml, and UserSignUp.fxml. I also included the JFeonix library for some enhanced GUI objects (JFXTextField, JFXListView, etc.)

Architecture: Model   {Model.java, Book.java}
Views   {MainMenu.fxml, UserSignin.fxml, UserSignUp.fxml}
Controller   {MainMenuController.java, UserSigninController.java,
UserSignupController.java, UserLoginInterface.java, MainController.java}

Required Elements:

1. Object-oriented Elements I implemented
    a. Classes
        i. Book.java
        ii. Model.java
        iii. ZcbmkwFinalProjectF21.java
        iv. FXMLControllers.MainController.java
    b. Subclasses
        i. FXMLControllers.MainMenuController.java
        ii. FXMLControllers.UserSigninController.java
        iii. FXMLControllers.UserSignupController.java
    c. At least one abstract class
        i. SaveToFile.java
    d. At least one interface
        i. FXMLControllers.UserLoginInterface.java
2. Code Elements I utilized
    a. One or more collection classes
        i. ArrayList
    b. Exception handling
        i. Model.java:44
        ii. SaveToFile.java:18
        iii. MainController.java:39, 52
        iv. FXMLUserSigninController.java:47
3. The application must have a clearly defined model
    a. I decided to contain my model entirely in the model.java class.
4. The UI must utilize multiple scenes and at least one of the scenes will have the contents of the scene graph changed based on the application state
    a. The application switches between UserSignin.fxml, UserSignup.fxml, and then proceeds to MainMenu.fxml.
5. There must be a way to access "About" information that includes information about you and the application

       a. The About page can be found on the MainMenu.fxml scene.
6. The application must save and load data. The target for saving/loading data can be files, a network service, or a database.
       a. The application saves and loads data for each individual user to LibraryFiles.books.txt, LibraryFiles.users.txt, UserBooks, and UserCarts.