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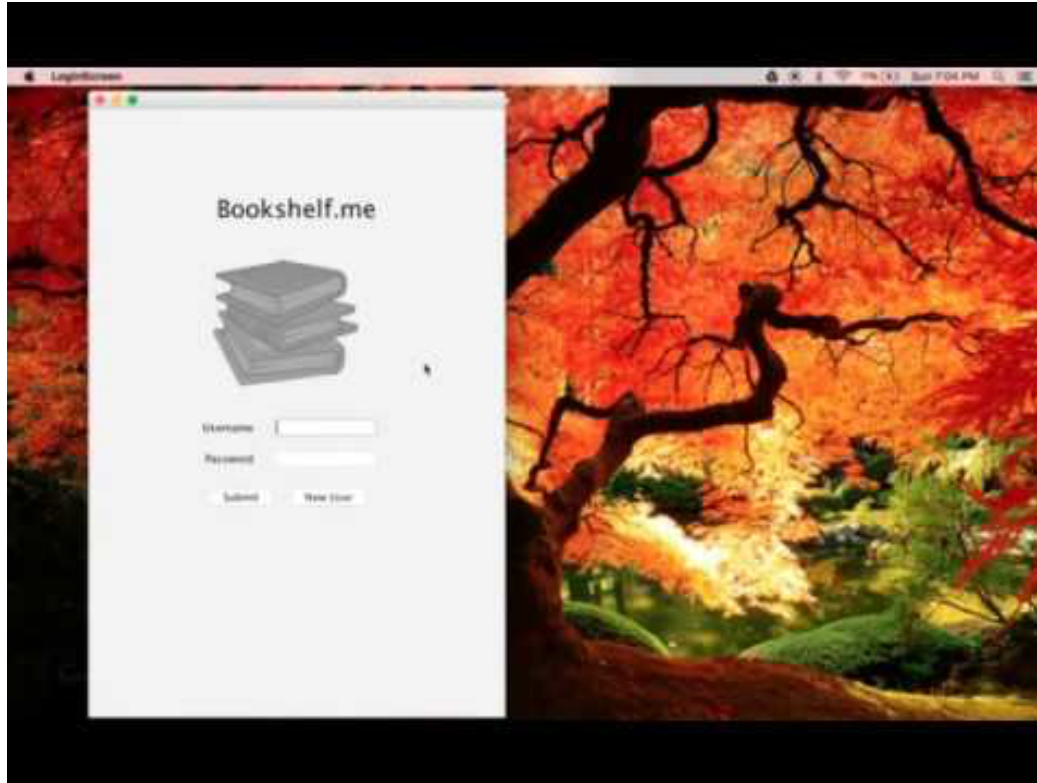
# Bookshelf.me

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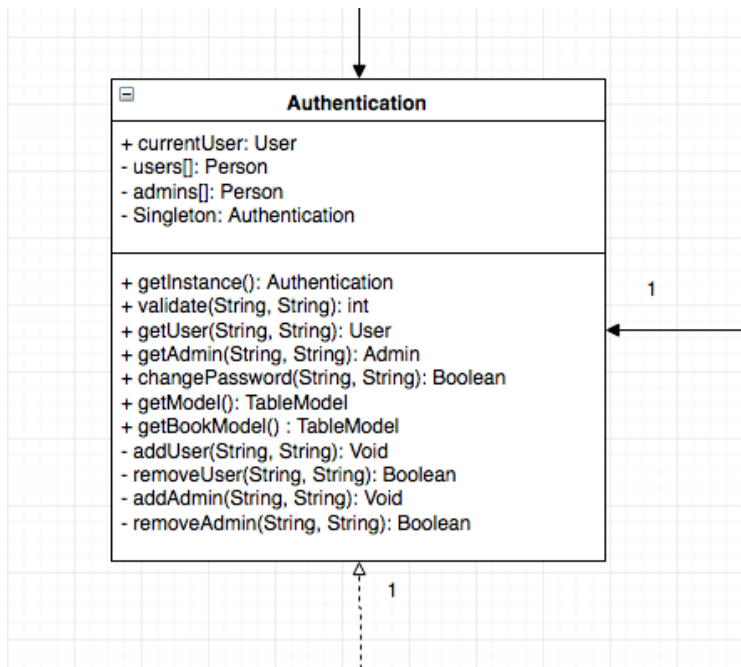
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# Walkthrough/Demo



<https://www.youtube.com/watch?v=TPVsNNOWSLg>

# Design Pattern - Singleton

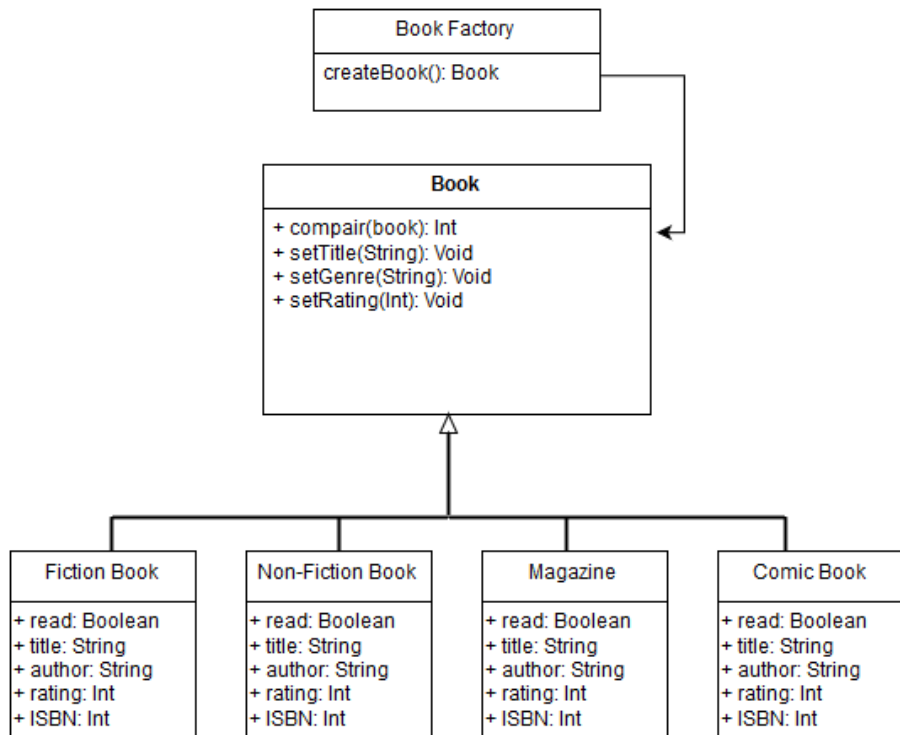


Only have one instance of authentication

Method to obtain that instance is public

Instance itself is private

# Design Pattern - Factory



The Book Factory class would instantiate a type of book

The Book class contains all of the methods a book would have

Currently, every book has the same characteristics, so a Factory pattern wouldn't be necessary

## Login Screen

```
- frame: JFrame
- loginUsernameField: JTextField
- loginPasswordField: JPasswordField
- settingsUsernameField: JTextField
- settingsNewPasswordField: JTextField
- login: JPanel
- UserScreen: JPanel
- AdminScreen: JPanel
- Settings: JPanel
- bookPic: JLabel
- loginUsernameLabel: JLabel
- loginPasswordLabel: JLabel
- userScreenTitle: JLabel
- bookshelfTitle: JLabel
- adminScreenTitle: JLabel
- settingsTitle: JLabel
- loginSubmitButton: JButton
- newUserButton: JButton
- adminScreenLogoutButton: JButton
- settingsLogoutButton: JButton
- separator: JSeparator
- separator_1: JSeparator
- separator_2: JSeparator
- settingsNumBooksRead: JLabel
- usertable: JTable
- AddBookScreen: JPanel
- btnBack: JButton
- lblLetsAddA: JLabel
- lblFillInAs: JLabel
- lblTitle: JLabel
- lblAuthor: JLabel
- lblGenre: JLabel
- lblIsbn: JLabel
- lblHaveYouRead: JLabel
- titleText: JTextField
- authorText: JTextField
- genreText: JTextField
- isbnText: JTextField
- scrollPane: JScrollPane
- booktable: JTable
- scrollPane_1: JScrollPane
- btnDeleteBook: JButton
- btnEditBook: JButton
- editTitleText: JTextField
- editAuthorText: JTextField
- editGenreText: JTextField
+ actionPerformed(ActionEvent): Void
+ initialize():Void
```

# Anti Design Pattern - The Blob

Encapsulates many functions that do processing

No information stored within the class

Could cause problems as the project grows

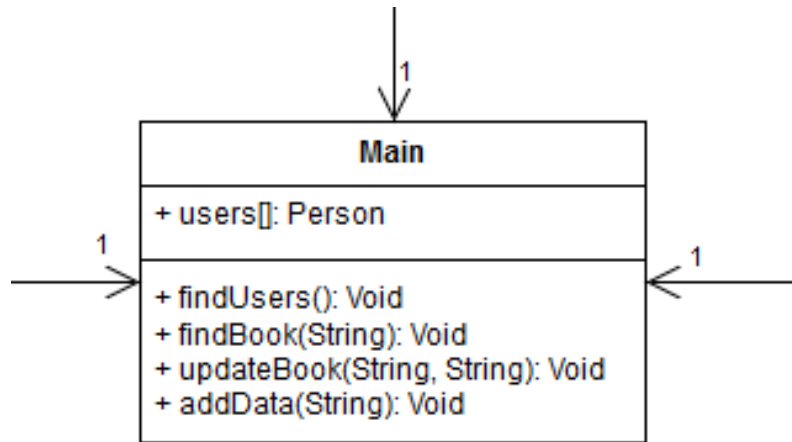
Better approach is MVC

# Adaptation of Main - Before

Originally designed to only be used  
by users

Had basic operations for books

Didn't have any sort of verification  
originally



# Adaptation of Main (Authentication) - After

Class that determines if a user or admin is in the system

Contains the list of users and administrators

Keeps track of the actors within the system

