Option 6 Book Collection program:
In this program you will create a book collection viewer. This will store a collections of books, allow the user to add new books, and edit books in the collection. You will display the books using a JTable. You will load these books using one of three methods.

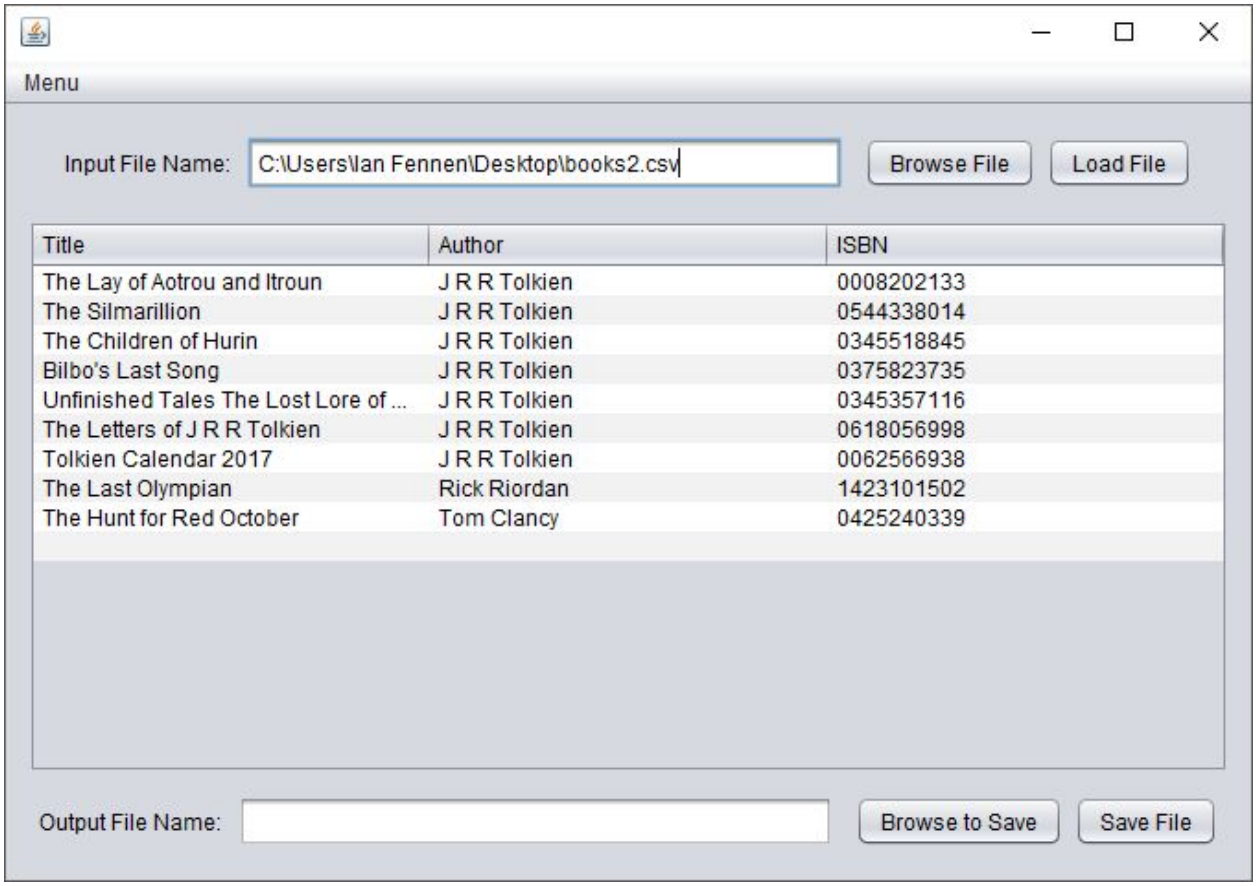
Part 1: Using a normal csv file
Part 2: Using an XML File
Part 3: Using a SQL Database

You ONLY need to complete the part 1 using a normal text file for full credit.
To begin on part 2 you MUST complete part 1. To begin part 3 you MUST complete part 2.

For part 1 you are given the example file:

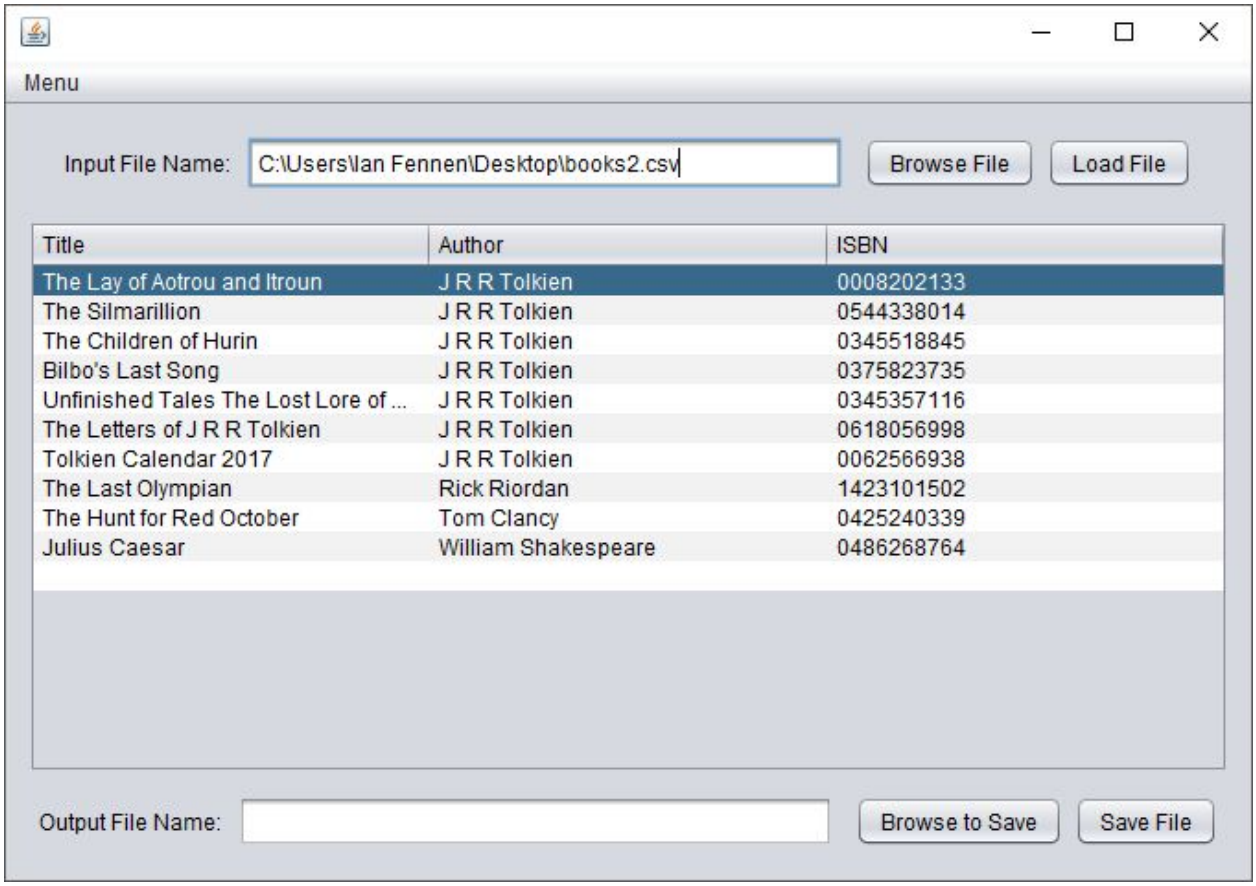
```
The Lay of Aotrou and Itroun,J R R Tolkien,0008202133
The Silmarillion,J R R Tolkien,0544338014
The Children of Hurin,J R R Tolkien,0345518845
Bilbo's Last Song,J R R Tolkien,0375823735
Unfinished Tales The Lost Lore of Middle-earth,J R R
Tolkien,0345357116
The Letters of J R R Tolkien,J R R Tolkien,0618056998
Tolkien Calendar 2017,J R R Tolkien,0062566938
The Last Olympian,Rick Riordan,1423101502
The Hunt for Red October,Tom Clancy,0425240339
```

You will then load that data into a JTable:



Notice that the ISBN is always 10 digits.

You must then be able to add new books to the collection:

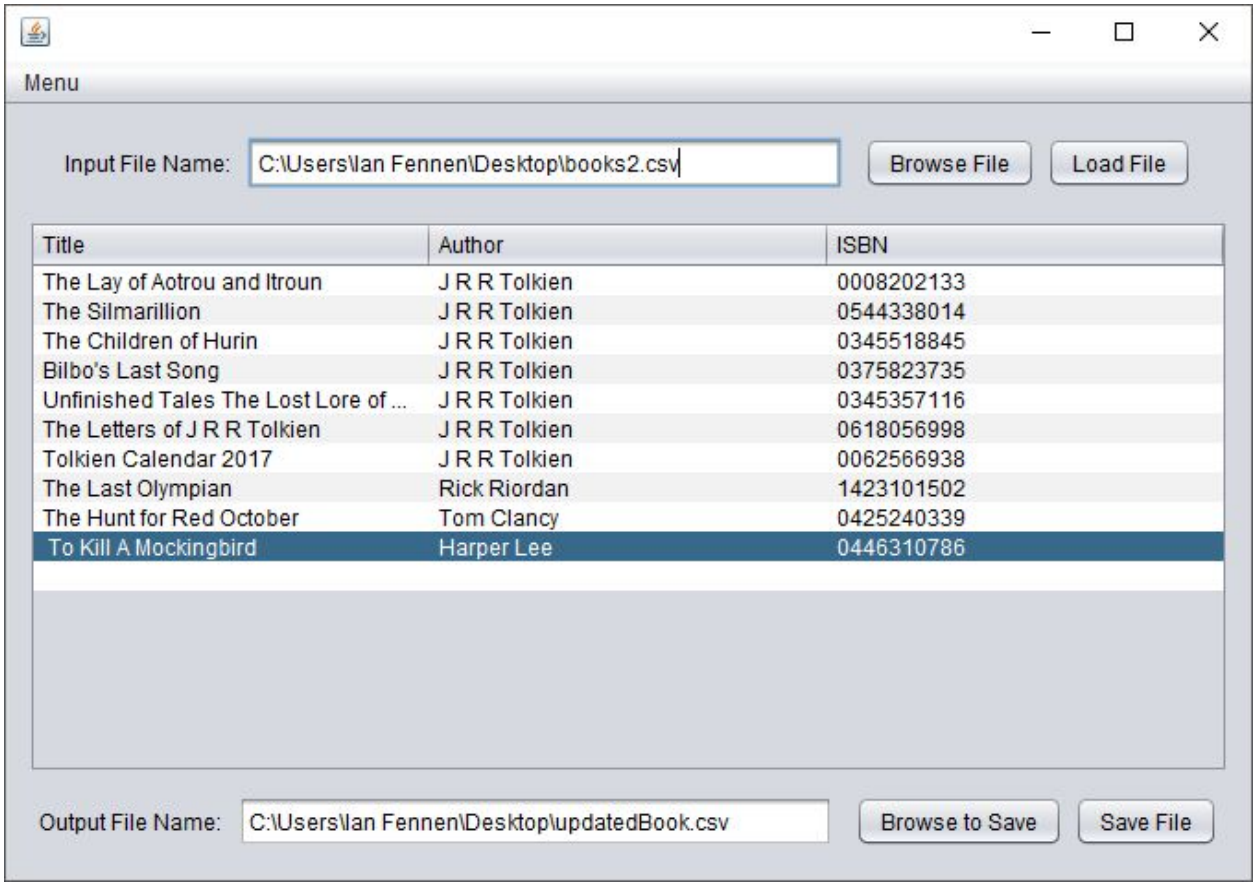


You may do this in two ways:

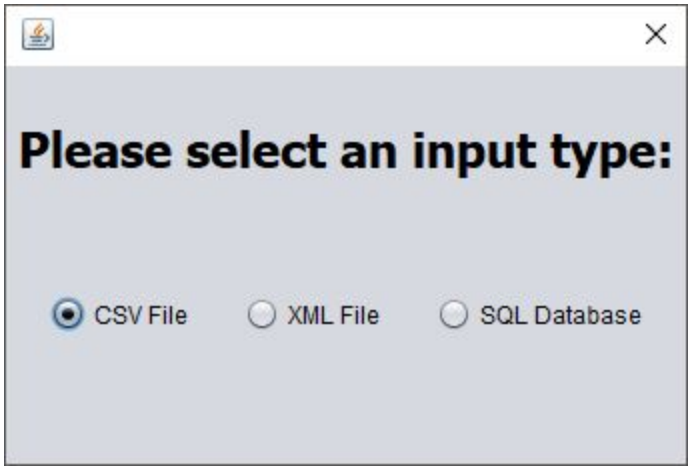
1. Leave an empty row at the bottom of the table and then edit this row. You must be able to add more than one row.
2. Open a new window and have the user input the necessary data there.

You must validate that the data i.e. you must check if the ISBN is 10 digits and that it is only numbers.

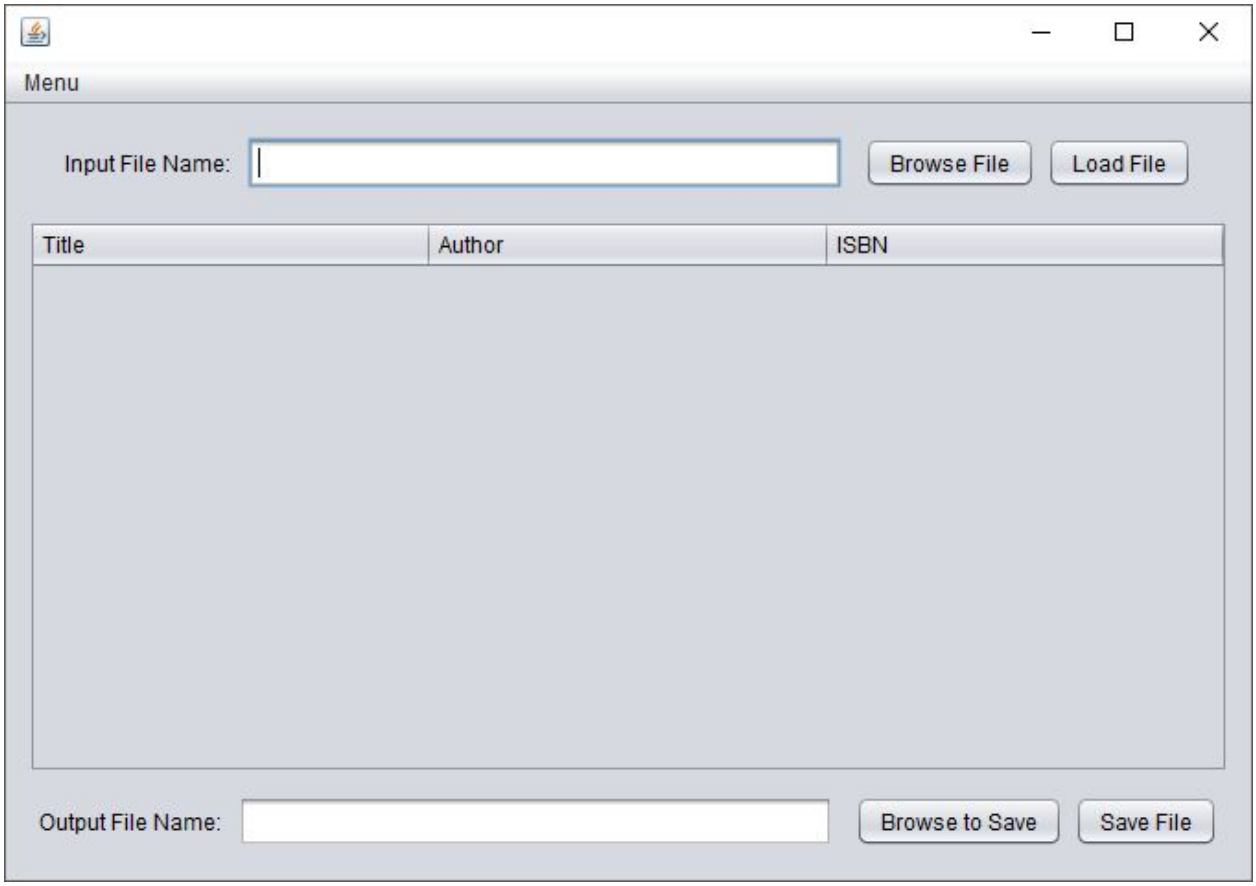
You must then be able to save the updated collection to a .csv file:



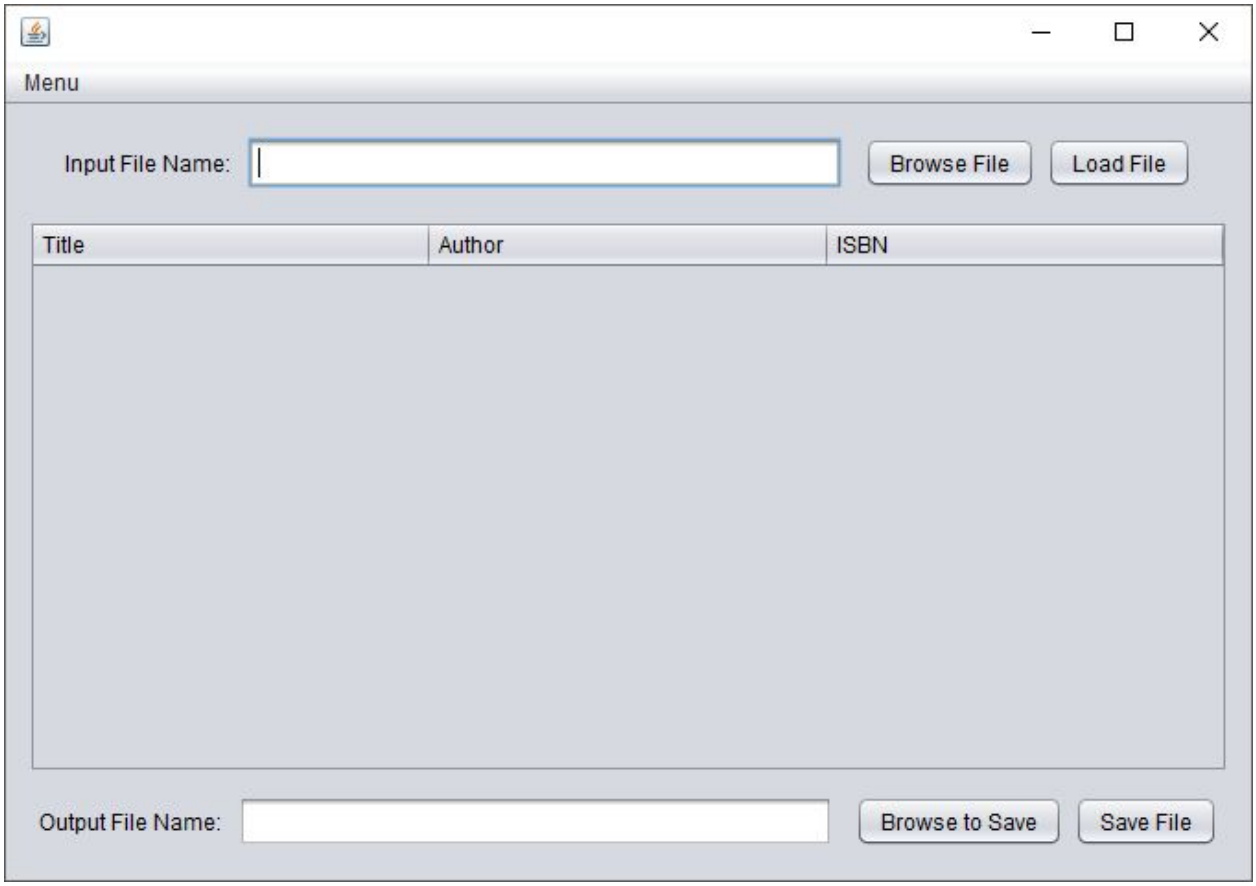
Finally, you must create a menu bar option that opens a new window that allows the user to select their desired data input method. The main display must be updated according to the option the user selects. You must complete this step even if you are only doing part 1.



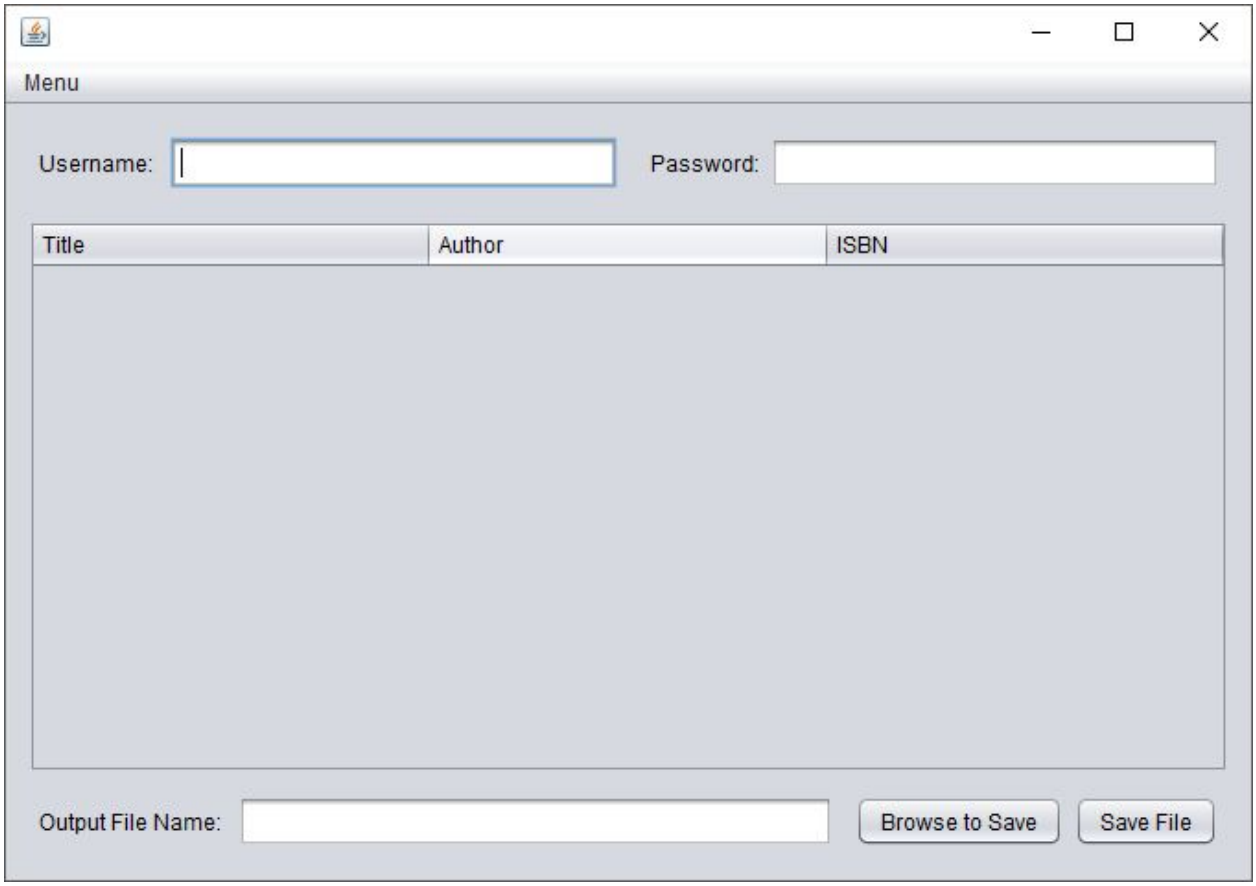
The main display must change as shown below:
User selects CSV File:



User selects XML File:



User selects SQL Database:



Notice that the input field has been replaced with Username and Password fields.

For full credit on this assignment your program must:

1. Read from a .csv file a collection of books in Title,Author,ISBN format.
2. Display this collection in a JTable.
3. Add new entries to the JTable. Using one of two methods.
4. Save this updated collection to a .csv file.
5. Include a menu bar item that opens a new window that asks the user to select an input method.
6. Update the main display based on this selection. You do not need to implement the loading of the file for part 2 and part 3. You only need to update the display fields.

Your displays do not need to be exact replicas of the ones in this document they only need to be similar.

For directions on how to complete part 2 and part 3 please email Ian Fennen at: Ian@IanFennen.com

To receive these instructions you must have completed the previous part of the assignment.