Computer Information Systems
GUI Design Project

For this project, you will create a GUI application that models accessing a database. You will not actually connect to the database, but you will create screens that will look like they would connect to the data. You will need to create the database in Access (including generating relationships) in addition to the actual GUI system. The GUI application would be used by library staff NOT customers.

Student Name: _____

Application Name: _____

Scoring Guide

Items	Points				
	1	**2**	**3**	**4**	**5**
Missing fields	9-10	6-8	3-5	1-2	0
Missing relationships	4	3	2	1	0
Missing subsidiary tables	4	3	2	1	0
Fields with spaces in the names	7-8	5-6	3-4	1-2	0
Missing forms	4	3	2	1	0
Missing data fields on forms	4	3	2	1	0
Number of inappropriately titled forms	4	3	2	1	0
Number of GUI rules not followed	7	6	4-5	2-3	0-1
Missing buttons on forms	4	3	2	1	0
Followed DB naming instructions					Yes

Total points: _____ / 50   Bonus points: _____   Project points: _____

It is possible to earn more than 50 points on this lab. If you are creative with your screen designs or add additional and appropriate tables/fields/forms, you can earn up to 10 extra points. This means that if you did everything correct and did some extra work, you could earn 60 points on the 50-point lab. The bonus points are at the instructor's discretion.

Here are the steps to follow for this lab:
1. Create a directory on your Z: drive called GUIDBProject
2. Create an Access database named GUILibrary (and save in the GUIDBProject directory)
3. Create the following tables in the database. You are required to create the appropriate ID fields and the appropriate relationships. I am not giving you the ID fields that need to be created; you need to decide which ID fields need to be created. In the case of a many-to-many relationship, you will need to create the subsidiary tables that allow many-to-many relationships.
   a. Tables
      i. Customers
         1. FirstName – Text
         2. LastName – Text
         3. MiddleName – Text
         4. StreetAddress – Text
         5. City – Text
         6. State – Text
         7. ZipCode – Number
         8. PhoneNumber – Number
         9. RatingRentalLimit – Text
         10. CurrentFines - Currency
      ii. LibraryItems
         1. Title – Text
         2. ISBN – Text
         3. ShelfLocation – Text
         4. Condition – Number
         5. CheckedOut – YesNo
         6. Rating – Text
         7. CopyrightDate – DateTime
         8. IsCD – YesNO
         9. IsDVD – YesNo
         10. IsBook - YesNo
      iii. ItemType
         1. ItemType – Text
      iv. Genre
         1. GenreText – Text
      v. Authors
         1. FirstName – Text
         2. MiddleName – Text
         3. LastName – Text
      vi. Directors
         1. FirstName – Text
         2. MiddleName – Text
         3. LastName – Text
      vii. Actors
         1. FirstName – Text
         2. MiddleName – Text
         3. LastName – Text
      viii. Producers
         1. FirstName – Text
         2. MiddleName – Text
         3. LastName – Text

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ix. Publishers
1. CompanyName – Text
2. CompanyCity – Text
3. CompanyState - Text
x. Songs
1. SongTitle - Text
2. SongLength – Number

b. Relationships
i. Many Authors to Many LibraryItems
ii. Many Actors to Many LibraryItems
iii. Many Producers to Many LibraryItems
iv. Many Publishers to Many LibraryItems
v. One LibraryItems to Many Songs
vi. One Genre to Many LibraryItems
vii. One Genre to Many Songs
viii. One ItemType to Many LibraryItems
ix. One Customer to Many LibraryItems

4. After creating the database, create a VisualBasic application with the following forms: Make sure to change the title of the forms.
   a. Form1 – This form will be a menu. You may add additional controls to this form beyond the ones listed below if you think they will improve the look of your application. It must have the following buttons.
      i. Quit – This button will exit the program
      ii. Add Items – This button will call an AddItem form
      iii. Add Customers – This button will call an AddCustomer form
      iv. Check Out - This button will call a CheckOutItem form
      v. Maintenance – This button will call a Maintenance form
   b. Maintenance Form – This form will also be a menu. Again, you may add any additional controls to this form beyond the ones listed below. It must have the following buttons.
      i. MainMenu – This button will close this form
      ii. Authors – This button will call an Authors form
      iii. Publishers – This button will call a Publishers form
      iv. Producers – This button will call a Producers form
      v. Actors – This button will call an Actors form
      vi. Genre – This button will call a Genre form
      vii. Directors – This button will call a Directors form
   c. A form for each of the items listed in the maintenance form. Each of the forms needs an add, edit, save, search, delete, and OK button. The ok button will close the form. The rest of the buttons will be inactive. The forms also need to have a label (with appropriate shortcut) and textbox for every non-ID field.
   d. A form for AddCustomers that has the same buttons as the maintenance forms and label/textbox for every non-ID field.
   e. A form for AddItems that has the same buttons as the maintenance forms and a label/textbox (or appropriate control) for every non-ID field. This form also needs a combo-box for the Genre, a listbox for actor, a list box for publisher, a listbox for author, a listbox for director, and a listbox for producer.
5. Make sure that the buttons call the appropriate forms. There are some additional forms that could be created, but are not required.
6. Make sure that the program runs without errors. Make a screen print of each form (Ctrl-PrtSc) and paste those screen prints into a word document
7. Print out the word document and attach it to this document and turn in. Please make sure to have saved the project and fill out the information on the scoring guide.