

I/We realize that the penalty for turning in work that is not my own, or assisting others in doing so, can range from an "F" in the class to dismissal from Trinity University. I realize that it is a violation of academic integrity to share any portion of this lab with any person (outside my 3321 team & professor)!

Print Name _____ Time Required = _____ Hrs.

Signature _____ (pledged)

Visual Studio Windows Form Application #3

Individual Assignment

25 Points

If I Provide You With A Paper Copy Of The Tutorial, I would recommend that you check off each task you complete as you work through the tutorial → maybe just use a checkmark!

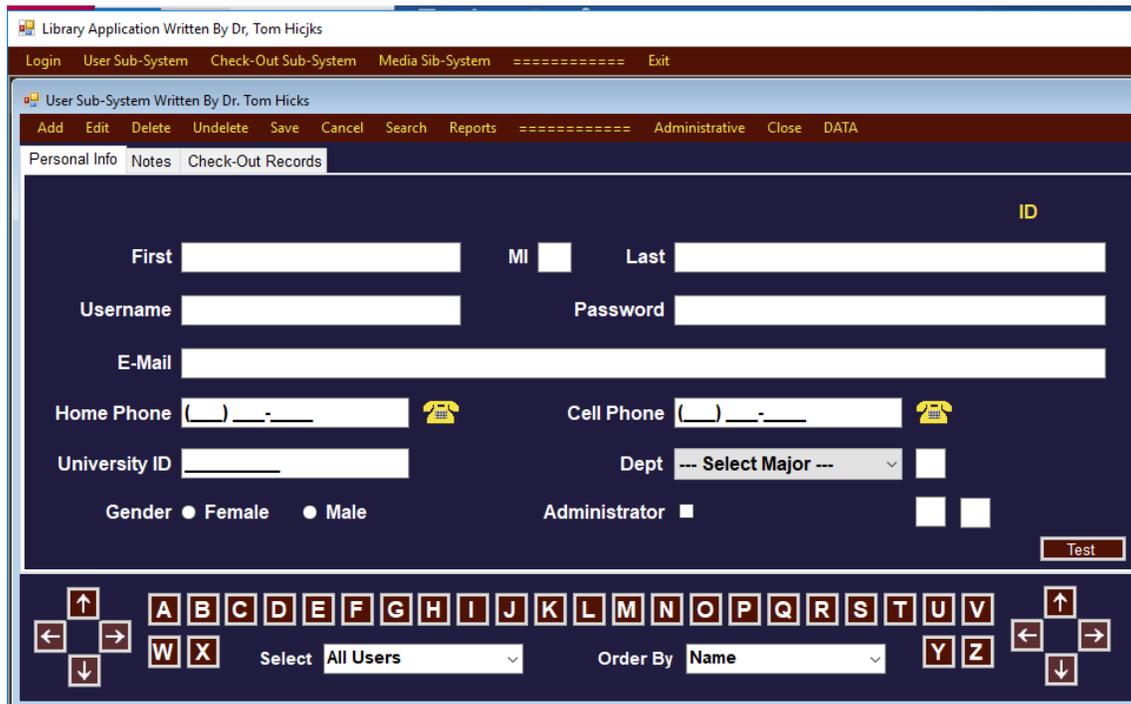
{Initial/Pledge} I have completed all of steps/tasks in **Visual Studio Windows Form Application #3**.

The screenshot shows a Windows Form application titled "Library Application Written By Dr. Tom Higgs". The form has a dark blue background and white text. It contains several input fields and a "Test" button. The fields are: First (Tom), MI (E), Last (Hicks), Username (thicks), Password (*****), E-Mail (thicks@trinity.edu), Home Phone ((210) 111-2222), Cell Phone ((210) 999-7483), University ID (001122334), Dept (Computer Science), Gender (Female selected), and Administrator (checked). A "Test" button is located at the bottom right of the form. Below the form, there is a keyboard layout with letters A-Z and a "Select" dropdown menu set to "All Users".

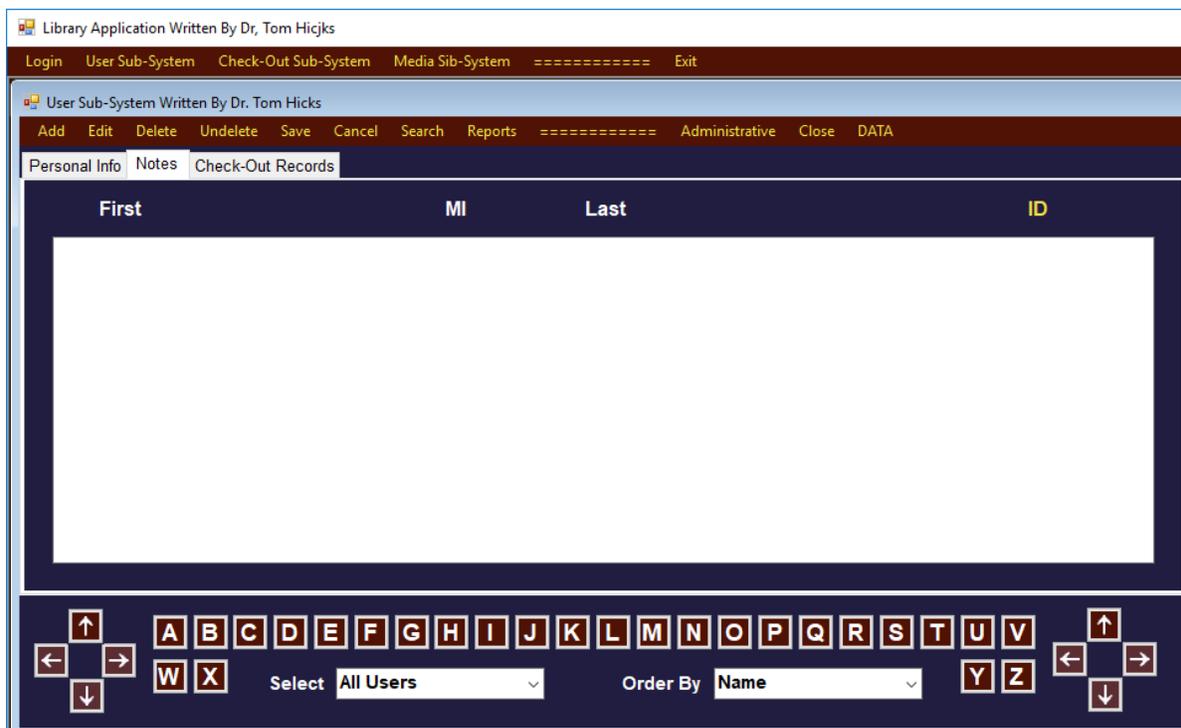
{Initial/Pledge} With the exception of color, the Usert.cs form in my project looks much like the one above. I have worked step by step through the tutorial. I have created Main.cs ← my MDI container has a background.

{Initial/Pledge} Double-Check → Each of my buttons, except Search, Reports, and Administrator, all have mouse-over tool tips that better explain the functionality.

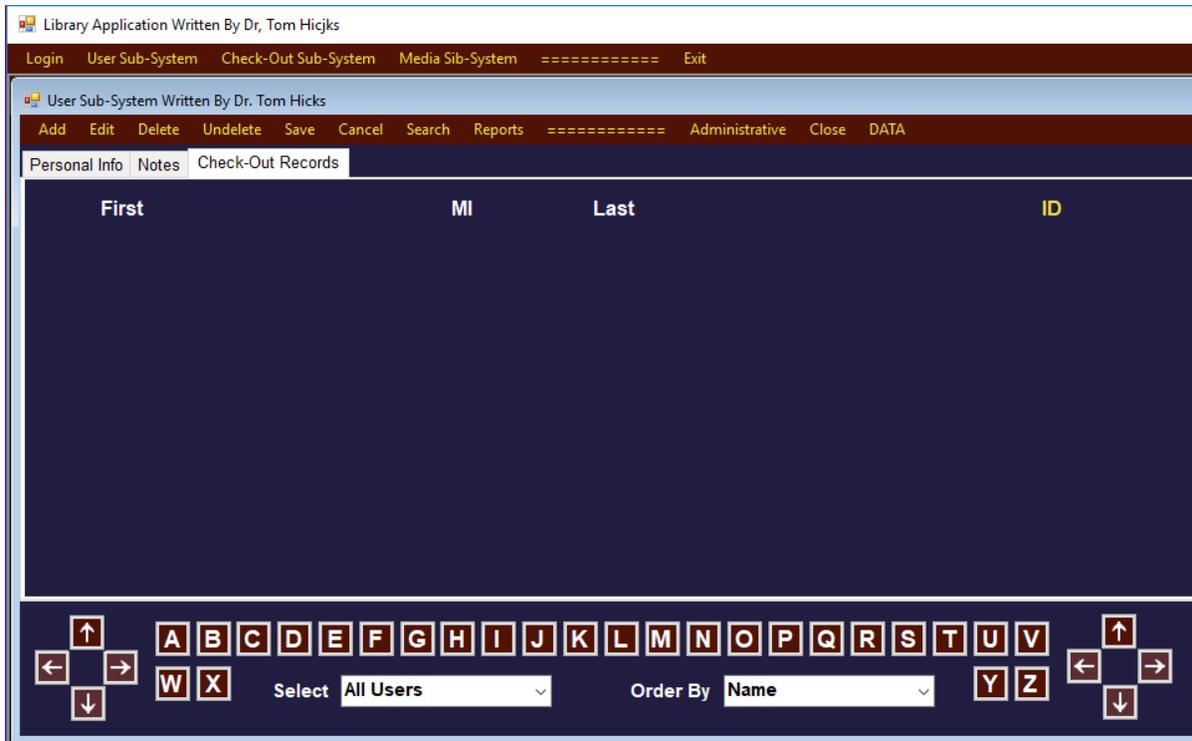
Push Your DATA button till you get a blank form.



{Initial/Pledge} My blank **Personal Info Tab** looks much like the one above; I will have my choice of navigation buttons and color.

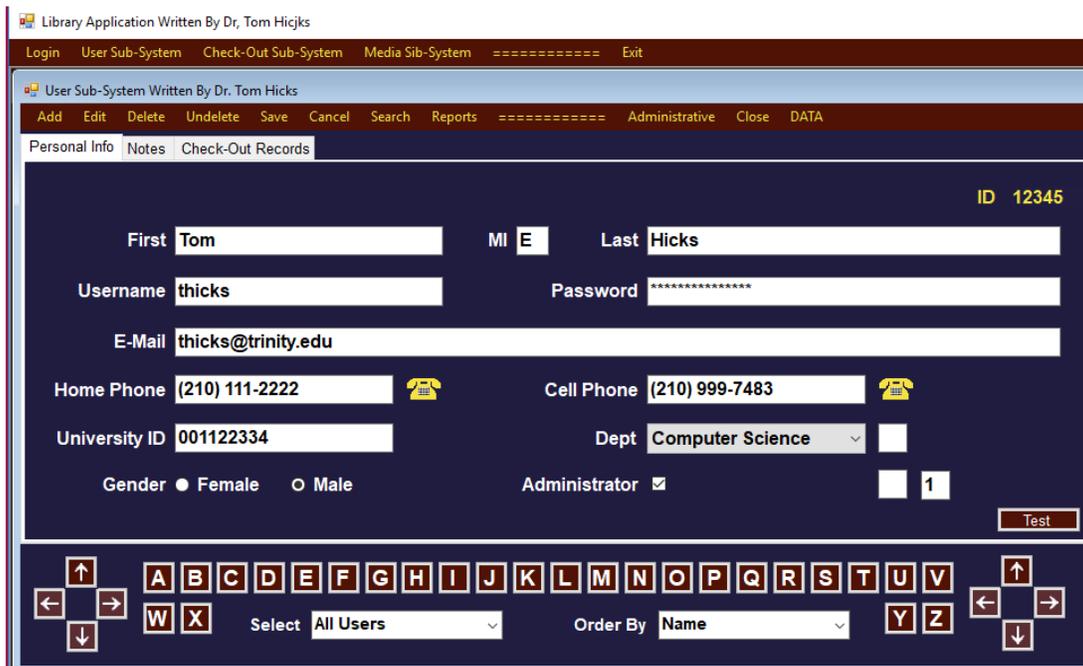


{Initial/Pledge} My blank **Notes Tab** looks much like the one above; I will have my choice of navigation buttons and color.



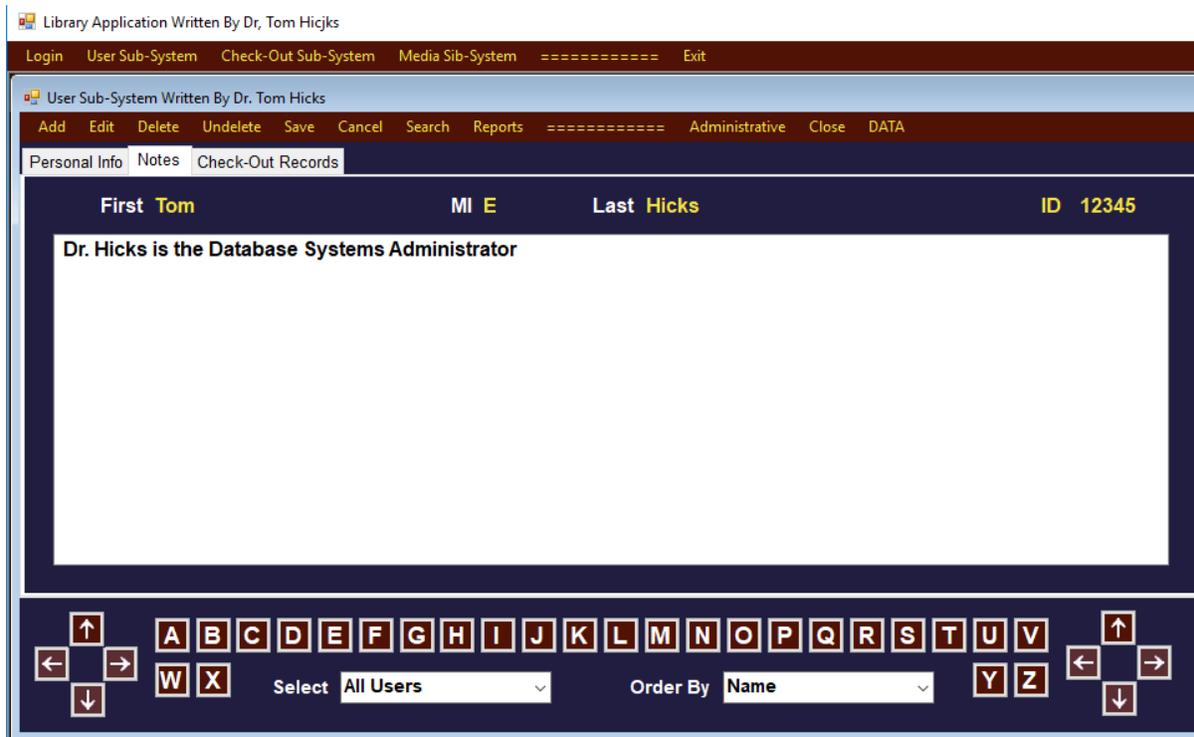
{Initial/Pledge} My blank **Check-Out Records Tab** looks much like the one above; I will have my choice of navigation buttons and color.

Push Your **DATA** button till you get a data populated form.



{Initial/Pledge} My data populated **Personal Info Tab** looks much like the one above; I will have my choice of navigation buttons and color and my own data. Data Entry has Data.

{Initial/Pledge} I have screen captured the view above with my form.



{Initial/Pledge} My data populated **Notes Tab** looks much like the one above; I will have my choice of navigation buttons and color and my own data. Data Entry has Data.



{Initial/Pledge} My data populated **Check-Out Records Tab** looks much like the one above; I will have my choice of navigation buttons and color and my own data. Data Entry has Data.

- _____ {Initial/Pledge} I have placed _____ copies of LibraryApp1, LibraryApp2 & LibraryApp3 on either my flash drive or my personal computer.
- _____ {Initial/Pledge} I have recorded the amount of time this lab required (to the nearest quarter of an hour) at the top where I printed my name.

Tutorial

- 1] _____ One of the Guidelines, in the tutorial, states that most Sub-System forms should have an Order By Co_?_..
- 2] _____ One of the Guidelines, in the tutorial, states that, when appropriate, we should use the ComboBoxes to reduce the likelihood of D_?_ Entry Errors.
- 3] _____ One of the Guidelines, in the tutorial, states that when the selections in the ComboBox (dropdown control) may Ch_?_ in the next ten years, the software engineer should populate that dropdown control with a file or a database table; the control should not be manually populated. Think UserType.
- 4] _____ One of the Guidelines, in the tutorial, states that, when appropriate, we should use the CheckBoxes to reduce the likelihood of Data E_?_ Errors.
- 5] _____ One of the Guidelines, in the tutorial, states that, when appropriate, we should use the Radio Buttons to reduce the likelihood of Data E_?_ Errors.
- 6] _____ Passwords should never be Exp_?_ → unless this option is selected by the users.
- 7] _____ Whenever appropriate, TextBoxes should be masked to reduce the likelihood of Data Entry Er_?_.

Intro To Design I

- 1] _____ According to the slides, "Good Design is G_?_ D_?_.
- 2] _____ According to the slides, you will need an MDI C# container for your final project. MDI is an acronym for _?_.
- 3] _____ According to the slides, good design will always save the user as many CI_?_ as possible. Time is money!
- 4] _____ {T/F} Our final project should have a good navigation buttons; you may create your own buttons. You may find buttons to download. You may purchase a set of buttons. Hint: → TRUE
- 5] _____ {T/F} All of the buttons on your final project should have good mouse-over tool tips. Hint: → TRUE

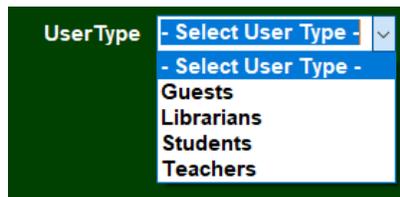
User							UserType							
Field Name	Data Type	Required?	Default Value	Low	High	Control	Index	Field Name	Data Type	Required?	Low	High	Default Value	Index
ID	LONG INT	Y	-	-	-	Label	Y	ID	LONG INT	Y	-	-	-	Y
First	VARCHAR(15)	Y	Blank ==> ""	-	-	TextBox	Y	Type	VARCHAR(15)	Y	-	-	Blank ==> ""	Y
Mi	CHAR(1)	N	Blank ==> ""	-	-	TextBox	N	Deleted	CHAR(1)	Y	-	-	N	Y
Last	VARCHAR(20)	Y	Blank ==> ""	-	-	TextBox	Y							
FullName	VARCHAR(35)	Y	Concat>Last, ", ", First)	-	-	NONE - Calculated	Y							
UserTypeID	LONG INT	Y	-1	1	5	ComboBox	Y							

Initial UserType Data	
-1	Select UserType
0	Select All Users
1	Students
2	Teachers
3	Librarians
4	Parents
5	Guests

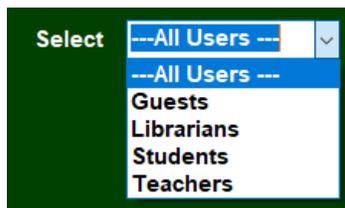
6] _____ Suppose a team, under your leadership, were given the task of designing the forms for the User Sub-System. Do you feel that they would be more likely to create the software you envision if given (1) **Brief Class Diagrams** or (2) **Detailed Class Diagrams**?

7] _____ According to the slides, we should not store Mu_?_ pieces of data into a single database field or programming container.

8-12] Review the slides: Why is it a really poor design consideration to implement the UserType on the User Form with a textbox?



13] _____ {T/F} This drop down ComboBox is a much better control than the textbox; If we want to use it to enable the user to select the user type on the blank form during data entry, we should initialize the choice with something like **- Select User Type -** as opposed to leaving a blank control. Hint: → TRUE



14] _____ {T/F} If we want to use it to enable the user to choose a filter, we should initialize the choice with something like **- All Users -** as opposed to leaving a blank control. Hint: → TRUE

15] _____ {T/F} According to the slides, your stakeholders will know what they want. Hint: → FALSE

What To Turn In

- 1] **All pages of this lab with questions completed.**
- 2] **Screen Capture stapled To The Back Of This Lab.**

----- **No Lab Is Complete Until Both Are Complete** -----

- 1] You sign & submit the Pledge form at the top of this lab!. No Lab Will Be Considered Complete until this is done. Late penalties will continue to accrue until the pledge form is submitted.
 - a) Sign & Pledge
 - b) Record the amount of time you think you spent on this lab
 - c) Staple all pages of this lab. Fold in half length-wise (like a hot-dog). Put your name on the outside. Place it on the professor desk before the beginning of lecture on the day it is due. The penalty for late homework will not exceed 25% off per day.
 - d) Short answer questions must be hand written, unless the professor has granted an exception for physical reasons.
- 2] Place all programming code associated with this program, if any, in the Professor's Code Drop Box or on the Virtual System as directed.
I do not accept programs by mail; do not submit labs via email!