

Midterm exam (A)

Data processing 420-TDD-ID

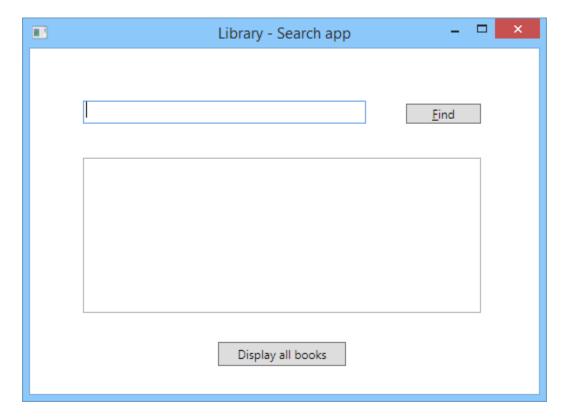
Name: Identification: Instructor: Date: Start time:		
Instructions:	1. Carefully read the instructions.	
	2. Create the application	
Grade:	3. You have 2 hours to complete the exam.	
	Step 1 (30 points)	/3
	Step 2 (40 points)	/4
	Step 3 (30 points)	/3
	TOTAL/100	

Your goal is to create a simple search application for a library.

This is an exam, not a project. You cannot ask your instructor or other students for help. You have 2 hours to complete this evaluation. Read the entire document before you start anything! Step 3 might be easier to complete than step 2...

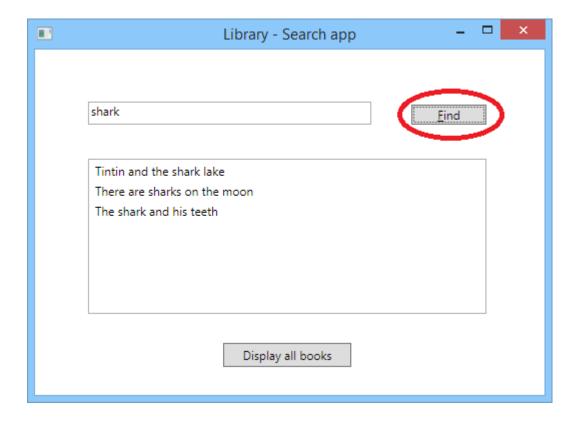
Your instructor will give you the **library.sql** file that you must run in SQL Server to create the database you will use for this exam. The database only has one table, *Books*, which has two columns, *Id* and *Title*.

1. Create a WPF project with this interface (30 points):



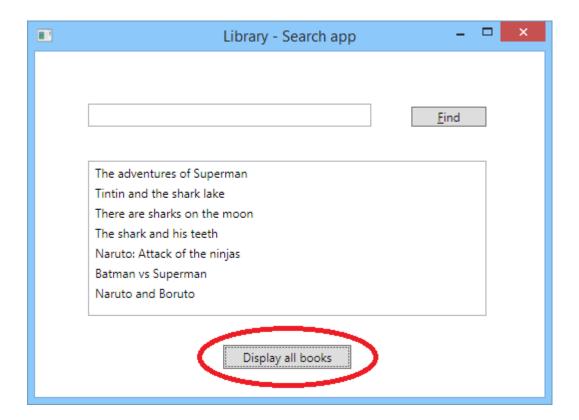
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2. Add code so that when the **Find** button is clicked, all the books that contain the word or expression in the textbox are displayed in the list. For example (40 points):



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3. When the **Display all books** button is pressed, all the books in the database should appear in the list (30 points):



Tips:

- You can add an item in a listbox by using this instruction: **listbox.Items.Add()**
- You can empty a listbox with this instruction: **listbox.Items.Clear()**
- **Don't make it harder on yourself!** You don't need to bind the listbox in the XAML. Instead, you can simply use a **SqlDataReader** object and fill the listbox with a **while** loop.
- It is possible to find all the titles that contain an expression with SQL: Select * from Books where Title like '%shark%'
- You can establish a connection with this instruction: connection = new SqlConnection("server=.; initial catalog=library; integrated security= true");
- Even if your code doesn't work 100%, you can still get some points if you are on the right track!

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