WinForms Practical Assginment No. 04

A shool wants to automate their student manager process. The system will allow adding, updating and deleting students. The database schema is below:



Figure 1: Database Schema

The database script has been generated for you at:

Perform the following functions for the application

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1. Create Student Manager form which allows users to add, update and delete students information as below:

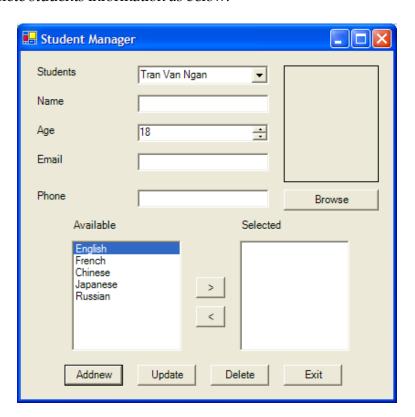


Figure 3: Manage student Form

- ♣ When the form is loaded, display all available students to Student List combo box, and display all Languages to Available Listbox.
- 2. When button New is clicked, the form's control should be cleared for new student information to be entered. Change the following visual interfaces

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- o combo Student List combo box is disabled
- Cursor is focused to Student Name field
- o Button New's Text is changed to Cancel
- Button Update's Text is changed to Add
- o Delete button is disabled

The form state after New button is clicked is shown below:

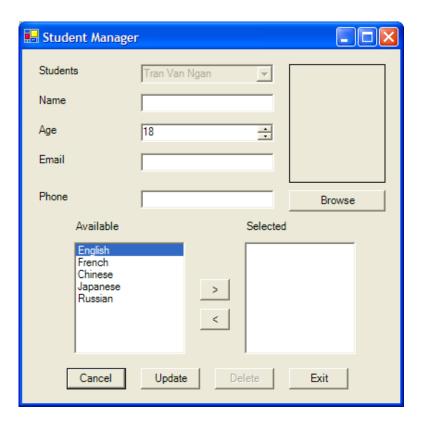


Figure 4: Manage Student Form (Add New state)

- - ♣ When Exit button click Form, Show DialogBox to confirm Yes or No. If Yes is chosen Application will exit (1 points)
- 4. When Add button is clicked, add the new student to Student table (only store File Path of the Image in picturebox). Ensure the following validations are performed:
 - All fields are required, Age, Phone only accept numbers, Age range come from 18 -30, Use OpenFileDialog to select student picture, only accept the follwing extensions *.bmp, *.jpg, *.gif (1 points)
 - o Update student information (1 points)
 - o Update Student Language List. (1 points)
 - o Insert new Student into Combo box Student List (1 point)

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details and update and delete it. Display appropriate Languages (2 points) and Picture for the selected student if ImagePath is not null(2 points).

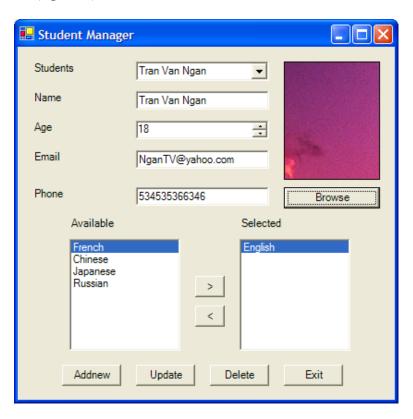


Figure 5: Manage Student Form (Student Details)

- 6. When Update button is clicked save the changes of selected student to Student table, implement the same data validations as in adding case (1.5 points)
 - ♣ Update Student Language List. (1.5 points)
 - ♣ Update Combo box Student List (1 point)
- - ♣ Delete Student Language (1.5 points). Display message denoting success or failure.
 - ♣ Remove the deleted student item from Select student combo box (1 point)

Total [25]