Practice

Windows Programming Course

Practice 01 (10/10/2020)

Objective: Practice WPF controls.

Steps:

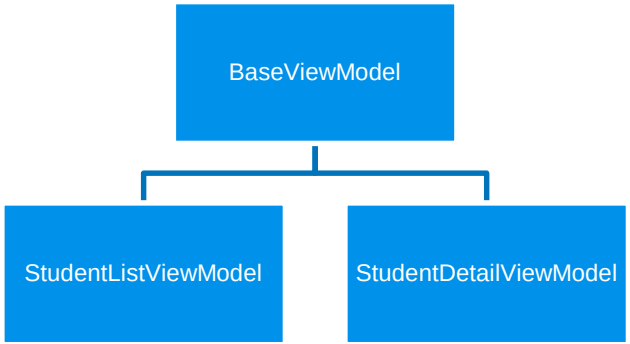
- Install tools: Visual Studio, Git.
- Read and Clarify FinalExercise_SIM_tool.pdf
- Follow the mockup sections, Implement layout for 2 windows Students List and Student Creation/Modification by using StackPanel and Grid layout controls in the lesson 08 WPF and basic controls such as Textbox, Button, DataGrid/ListView, Menu.

Practice 02 (17/10/2020)

Objective: Implement VM for windows.

Steps:

- Create VM for 2 windows Students List and Student Creation/Modification.
- Implement notification by deriving the INotifyPropertyChanged interface for both VMs. In order to avoid code duplication, create a base class for 2 VMs:



Practice 02 (17/10/2020) (cont.)

Steps:

- Hook up VM and View and bind control's properties to VM's Properties. For DataGrid/ListView, bind ItemSource of the control to an ObservableCollection in VM.
- Create RelayCommand (Copy code from slide Sample RelayCommand in the lesson 10).
- Create/Implement commands in VM for buttons: Search, Reset, Save, Cancel, menu "Create Student", menu "Delete Student".
- Implement validation for the dialog Student Creation/Modification by deriving the IDataErrorInfo interface.

Practice 03 (14/10/2020)

Objective: Enrich the GUI by applying WPF Themes.

Steps:

- Search key word “WPF Theme” and download a theme.
- Apply it to the application.

Practice 04 (31/10/2020)

Objective: Implement Web Service.

Steps:

- Create a Web Service (ASP.NET Web API)
- Create models: Student, Class, Subject, ~~Transcript~~ (Ref to section Database in FinalExercise_SIM_tool_1.0.doc)
- Create Service: StudentService (Ref to Lesson 12) with following methods: AddStudent, UpdateStudent, SearchStudent, RemoveStudent.
- Create Controller: StudentController with following methods: AddStudent, UpdateStudent, SearchStudent, RemoveStudent. In each method, invoke corresponding methods of StudentService.

Practice 05 (07/11/2020)

Objective: Implement Entity Framework.

Steps: