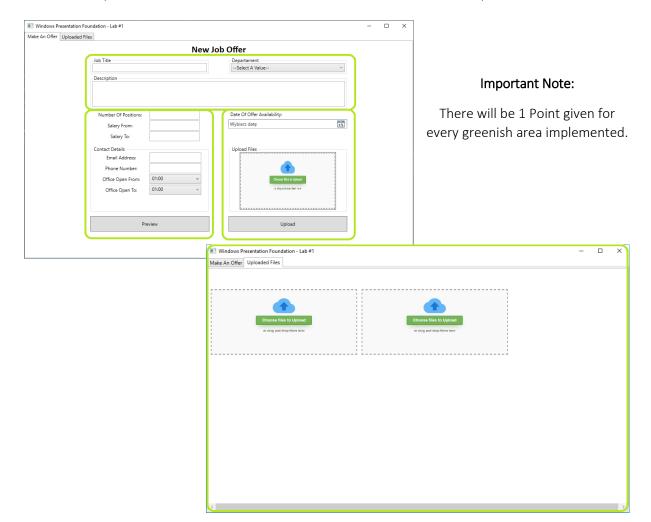
Windows Presentation Foundation

Lab No. 1

Your task for today is to prepare a simple application for creating *Job Offers*. The *Sample Application* consists of every feature that you have to implement. The task is divided into several stages, which can be done separatelly. The only restriction is to have appropriate GUI element prepared due to test your implementation of other features.

Stage_1 (4 Pts): GUI Implementation – Your application should behave like given Sample Application. That means couple of restrictions:

- Title set as "Windows Presentation Foundation Lab #1",
- Minimum window width as 1000 pixels,
- Maximize window defaultly,
- Ability to scroll vertically when window is too small,
- Ability to resize window all GUI elements should resize automatically.



Stage_2 (1 Pt): The *Job Title* field should only accept up to 30 characters. No Converter nor Validator is needed in this stage. Try to use available properties of *TextBox*.

Stage_3 (3 Pts): Binding to DataContext — In MainWindow.xaml.cs you can find specially prepared structure and necessarry data to bind to GUI controls. You need to bind Departament, Hours and Images data to suitable elements, like in to Sample Application.

Stage_4 (2 Pts): Validation – Some Validation in your Job Offer form is needed (each for 1 Point):

- Email Address field needs appropriate validation. The easiest way is to check for '@' and '.' characters. But you can make proper validation using regex.
- *Phone Number* field also needs validation. You can check only for positive numbers, but it is recommended to use regex for proper validation.

Stage_5 (2 Pts): Create function that adds new images to your *Uploaded Images* content. This function should be called by double clicking on *Upload Files* area (image). Filter input data as images with extension *.jpg.

SOME HINTS:

- GUI TabControl, ScrollViewer with VerticalScrollBarVisibility Property, Grid with RowDefinition and ColumnDefinition, StackPanel, Binding with Validation Property,
- C# OpenFileDialog, ValidationRule, ObservableCollection, Regex.