

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 separately. 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.

The screenshot shows a window titled 'Windows Presentation Foundation - Lab #1' with two tabs: 'Make An Offer' (selected) and 'Uploaded Files'. The 'New Job Offer' form contains the following fields and controls:

- Job Title:** Text input field.
- Department:** Dropdown menu with the text '--Select A Value--'.
- Description:** Large text area.
- Number Of Positions:** Text input field.
- Salary From:** Text input field.
- Salary To:** Text input field.
- Contact Details:**
 - Email Address:** Text input field.
 - Phone Number:** Text input field.
 - Office Open From:** Time dropdown menu (01:00).
 - Office Open To:** Time dropdown menu (01:00).
- Preview:** Button at the bottom left.
- Date Of Offer Availability:** Date picker with the text 'Wybierz date' and a calendar icon.
- Upload Files:** Section with a dashed border, a cloud icon, a green button 'Choose files to Upload', and the text 'or drag and drop them here'.
- Upload:** Button at the bottom right.

Important Note:

There will be 1 Point given for every greenish area implemented.

The screenshot shows the 'Uploaded Files' section of the application, which is a large area with a dashed border. It contains two identical upload boxes, each with a cloud icon, a green button 'Choose files to Upload', and the text 'or drag and drop them here'.

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 necessary 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*.