

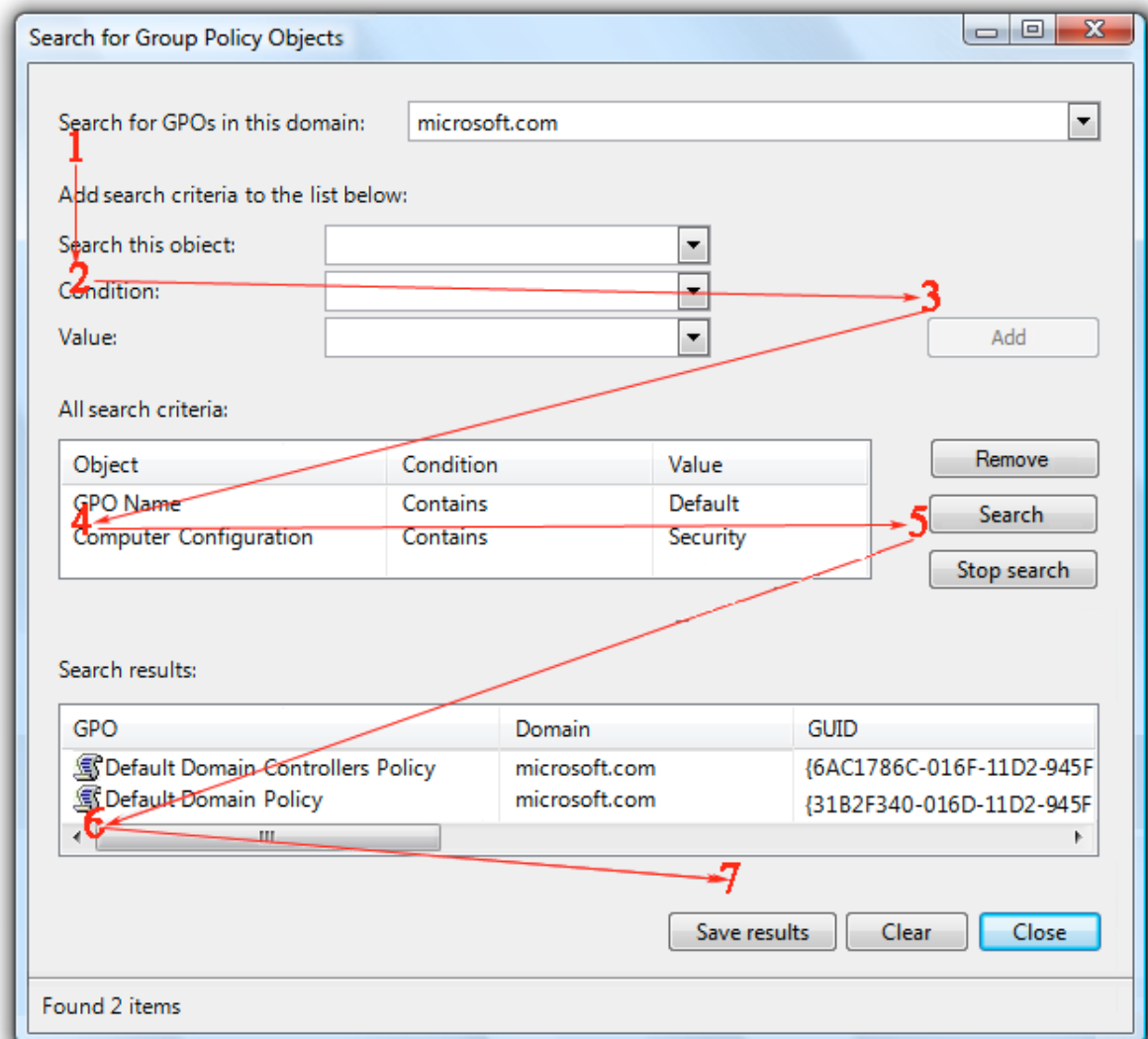
CS3249 User Interface Development

AY2013-14 Semester 2

Tutorial 1: GUI Design

Problem 1

- Refer to the following example dialog box. Although the flow of the items in the dialog is acceptable, it is not very well design. Why?
- What are the main objects supposed to be? Who are the target users?
- Design an improved dialog box that overcomes the shortcomings.



Problem 2

- The following GUI was developed by a team of researchers. What are the main objects supposed to be? Who are the target users? Make an educated guess.
- What are its major shortcomings?
- Design an improved GUI that overcomes the major shortcomings.

The screenshot shows a software window titled "Acquisition" with a blue title bar and a red close button. The interface is divided into three main sections: 1 - SETTINGS, 2 - DIMENSIONAL CAPTURING, and 3 - DIMENSIONAL CAPTURING.

1 - SETTINGS

- PREVIEW**: A placeholder box for a live video feed.
- EXPOSURE**: A numeric input field with the value "0.4" and a "SET" button. Below it, the range "(Range 0.0 .. 1000.0)" is displayed.
- Auto white balance**: A button.
- Z - CONTROL**: Contains an "Auto Focus" button, "UP" and "DOWN" buttons, a numeric input field with the value "0", and a label "Value of Z:".

2 - DIMENSIONAL CAPTURING

- Step1: Scanning Area**: Contains a "Set Scanning Area" button.
- Step2: Lens / Magnification**: Includes a "Magnification: X" dropdown menu set to "40", and labels for "Frame width (mm): 0.7713167" and "Frame Height (mm): 0.6170533". It also shows "Nb. of Rows: 1", "Nb. of Columns: 1", and "Total frames: 1".
- Step3: Capture Mode**: Features two radio buttons: "Non-autofocus (Step side)" (selected) and "Autofocus".
- Step4: Save Project As**: Includes a "Folder Path:" text field with the value "E:\judo\test" and a folder selection icon, and a "File Name:" text field with the value "test".
- Step5: Capturing ...**: Contains the instruction "Press the Start Capture to capture the images".

3 - DIMENSIONAL CAPTURING

- Step1: Scanning Area**: Contains the instruction "Do the same as Step 1 of the 2-Dimensional Capturing".
- Step2: Lens / Magnification**: Contains the instruction "Do the same as Step 2 of the 2-Dimensional Capturing".
- Capture by 3-dimension**: A checked checkbox.
- Step3: Set Z Direction and Capture Mode**: Includes a "Set Z range" button, two radio buttons: "Capture by X-Y plane" (selected) and "Capture by Z-axis", and a "Range" section with two numeric input fields, both containing the value "10". It also shows "Delta Z-step" with a value of "5" and "Num of Layers: Static".
- Step4: Save Project As**: Contains the instruction "Do the same as Step 4 of the 2-Dimension Capturing".
- Step5: Capturing ...**: Contains the instruction "Press the Start Capture to capture the images".

START CAPTURE: A large button at the bottom left.

Frame No.: A label at the bottom right.