**Innovative Teaching Approaches
in development of Software Designed
Instrumentation and its application
in real-time systems**

Itasdi

The Advanced Applications of LabVIEW
Lecture 6-7: The User Interface

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General tips

- Created user interface should be intuitive and aesthetic for the user.
- All the logical connected controls or indicators should be grouped in arrays or clusters.
- The border of cluster can be transparent so that the user doesn't know that elements are grouped.

Make the exercise 1.1 to practice removing border of clusters.

General tips

- Remember to change the properties of elements using the Property Nodes such as color, visibility, position etc.
- Sometimes the GUI is not aesthetic. You can change it by customizing the controls.

Make the exercise 1.3 to practice customizing the controls.

General tips

- Before running the application, all elements should be reinitialized to default values.
- Remember to make all necessary actions to inform the user what is happening. For this you can use i.e. dialog boxes.
- When the application is busy due to calculation or reading/writing data from/to file you can show this behavior by changing the cursor to hourglass.

Make the exercise 1.2 to practice customizing the cursor.

General tips

- The application is much more professional when the menu is fit to user needs. You can easily customize the run-time menu.
- Additionally you can remove the vertical and horizontal scrollbar and center the windows.
- Remember to set the window size to fit different monitor resolutions.

Make the exercise 1.4-1.5 to practice customizing the menus and removing the scrollbars.

Thank you for attention!