

CPE 353 Practice Problem 0004_Layout_Containers

Executable Sample Solution

The goal is to develop your application such that its appearance and behavior *exactly* matches that of the sample solution. To execute the sample solution, log into **blackhawk.ece.uah.edu**, redirecting the X11 display to your current machine – see the relevant Remote Access Guide on the course web page for assistance with this. Then in a terminal window, type the following command to execute the sample solution for this problem

```
/home/work/cpe353/problems/p0004
```

Project Specifications

Use the **qtcreator** integrated development environment to develop a Qt 5 dialog application that utilizes containers (a tab widget and a group box) for formatting widgets. You should expect to use all four basic layouts: horizontal, vertical, form (aka a two column grid), and grid.

Each tab has a different layout. The West tab contains a 3x3 arrangement of tool buttons. After using drag-and-drop to place the tab widget, you should be able to use right-click to add a new tab (page).

The JPEG option should be checked by default within the group box. Note that for the radio buttons within the group box, only one may be checked at a time.

You will need to nest different types of layouts (horizontal, vertical, and grid), perhaps adding a combination of vertical or horizontal spacers, to achieve the desired appearance and behavior.

Be sure to compare the appearance and behavior of your solution to that of the sample solution when resizing the displayed window.