

# PYQT6 Course

## 6. Layout Management QGridLayout

We have saw QHBoxLayout and QVBoxLayout examples, now let's talk about another type of layout, that is called QGridLayout, using QGridLayout we can align our widgets in row and columns.

- `addWidget()`: This method is used for adding widgets to the layout.
- `addLayout()`: This method is used for adding an specific layout to another layout.
- `addSpacing()`: This method is used for adding space from the right side.
- `addStretch()`: This method is used for stretching all the widgets in the grid layout.

For creating of grid layout, first you need to create the object of QGridLayout.

```
grid = QGridLayout()
```

When you are working with layout management then you should have some widgets to add that in the layout, in our case we are building a simple layout system and we want to add some QPushButton in the QGridLayout, so first you need to create some buttons.

```
btn1 = QPushButton("Click One")
btn2 = QPushButton("Click Two")
btn3 = QPushButton("Click Three")
btn4 = QPushButton("Click Four")
```

For adding the buttons in the QGridLayout, we need to use a method from QGridLayout that is called addWidget(), also you need to specify the row and column number for your widgets.

```
grid.addWidget(btn1, 0, 0)
```

One important point that you should take a note, when creating layouts and after adding widgets to the layout, you need to set the main window layout to the specific layout.

```
self.setLayout(vbox)
```