GWT - FLOWPANEL WIDGET

http://www.tutorialspoint.com/gwt/gwt_flowpanel_widget.htm

Introduction

The **FlowPanel** widget represents a panel that formats its child widgets using the default HTML layout behavior.

Class declaration

Following is the declaration for **com.google.gwt.user.client.ui.FlowPanel** class:

```
public class FlowPanel
   extends ComplexPanel
      implements InsertPanel.ForIsWidget
```

Class constructors

S.N.	Constructor & Description
1	**FlowPanel** Constructor for empty Flow Panel.

Class methods

S.N.	Function name & Description
1	**void add***Widgetw* Adds a new child widget to the panel.
2	**void clear** Removes all child widgets.
3	**void insert***IsWidgetw, intbeforeIndex*
4	**void insert***Widgetw, intbeforeIndex* Inserts a widget before the specified index.

Methods inherited

This class inherits methods from the following classes:

- com.google.gwt.user.client.ui.UIObject
- com.google.gwt.user.client.ui.Widget

- com.google.gwt.user.client.ui.Panel
- com.google.gwt.user.client.ui.ComplexPanel
- java.lang.Object

FlowPanel Widget Example

This example will take you through simple steps to show usage of a FlowPanel Widget in GWT. Follow the following steps to update the GWT application we created in *GWT - Create Application* chapter:

Step	Description
1	Create a project with a name *HelloWorld* under a package *com.tutorialspoint* as explained in the *GWT - Create Application* chapter.
2	Modify *HelloWorld.gwt.xml*, *HelloWorld.css*, *HelloWorld.html* and *HelloWorld.java* as explained below. Keep rest of the files unchanged.
3	Compile and run the application to verify the result of the implemented logic.

Following is the content of the modified module descriptor **src/com.tutorialspoint/HelloWorld.gwt.xml**.

```
<?xml version="1.0" encoding="UTF-8"?>
<module rename-to='helloworld'>
  <!-- Inherit the core Web Toolkit stuff.                        -->
  <inherits name='com.google.gwt.user.User'/>

  <!-- Inherit the default GWT style sheet.                      -->
  <inherits name='com.google.gwt.user.theme.clean.Clean'/>

  <!-- Specify the app entry point class.                         -->
  <entry-point class='com.tutorialspoint.client.HelloWorld'/>

  <!-- Specify the paths for translatable code                    -->
  <source path='client'/>
  <source path='shared'/>

</module>
```

Following is the content of the modified Style Sheet file **war/HelloWorld.css**.

```
body{
   text-align: center;
   font-family: verdana, sans-serif;
}
h1{
   font-size: 2em;
   font-weight: bold;
   color: #777777;
   margin: 40px 0px 70px;
   text-align: center;
}
.gwt-CheckBox {
   margin: 10px;
}
```

Following is the content of the modified HTML host file **war/HelloWorld.html**.

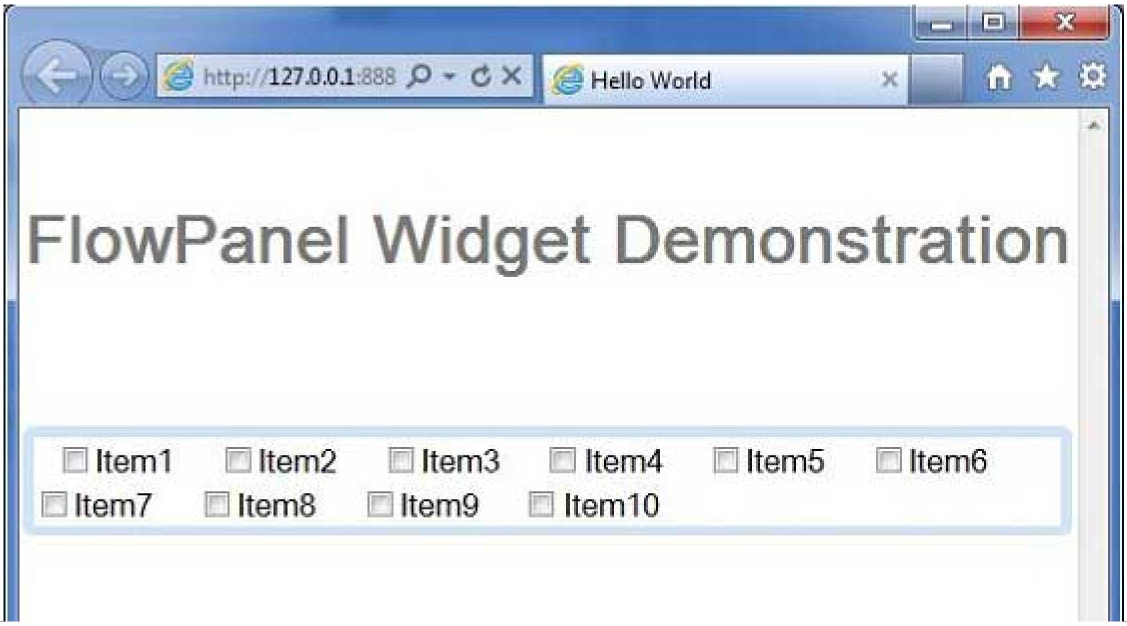
```
<html>
<head>
<title>Hello World</title>
```

```
   <link rel="stylesheet" href="HelloWorld.css"/>
   <script language="javascript" src="helloworld/helloworld.nocache.js">
   </script>
</head>
<body>

<h1>FlowPanel Widget Demonstration</h1>
<div ></div>

</body>
</html>
```

Let us have following content of Java file **src/com.tutorialspoint/HelloWorld.java** which will demonstrate use of FlowPanel widget.

```
package com.tutorialspoint.client;

import com.google.gwt.core.client.EntryPoint;
import com.google.gwt.user.client.ui.CheckBox;
import com.google.gwt.user.client.ui.DecoratorPanel;
import com.google.gwt.user.client.ui.FlowPanel;
import com.google.gwt.user.client.ui.RootPanel;

public class HelloWorld implements EntryPoint {

   public void onModuleLoad() {
      // Create a flow panel
      FlowPanel flowPanel = new FlowPanel();

      // Add CheckBoxes to flow Panel
      for(int i = 1;  i <= 10; i++){
         CheckBox checkBox = new CheckBox("Item" + i);
         flowPanel.add(checkBox);
      }

      DecoratorPanel decoratorPanel = new DecoratorPanel();
      decoratorPanel.setWidth("500");
      decoratorPanel.add(flowPanel);

      // Add the widgets to the root panel.
      RootPanel.get().add(decoratorPanel);
   }
}
```

Once you are ready with all the changes done, let us compile and run the application in development mode as we did in GWT - Create Application chapter. If everything is fine with your application, this will produce following result:



FlowPanel Widget Demonstration

☐ Item1 ☐ Item2 ☐ Item3 ☐ Item4 ☐ Item5 ☐ Item6
☐ Item7 ☐ Item8 ☐ Item9 ☐ Item10

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