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Informatics Institute of Technology

Mobile Application Development

5COSC011C

Formative Assessment

Report

**Name**                  : Mohamed Jafeer Jihan Jeeth

**UOW Number**   : w1742130

**IIT Number**       : 2018453

**Famous Layouts for Android Application Developments.**

All layouts are sub classes of view group.

Layouts are used to design the visual structure of the UI. There are 5 major layouts in android application development.

* Absolute Layout
* Frame Layout
* Linear Layout
* Relative Layout
* Table Layout

Also, there are some subclasses of these classes which also can be used to do the same job as the layouts

* List View
* Grid View
* Web View

**Absolute layout**

This layout uses exact x, y coordinates of the place where we want to place the element.

The properties used are android:layout\_x and android:layout\_y.

Absolute layout is not mush used these days because it uses absolute coordinates and there are more easy ways to position the elements. It is not flexible enough to be compatible with all android devices. It is used if and inly if none of the other layouts suits the design.

**Frame layout**

Frame layout should be used when we have to view more than one items but one at a time. So, it contains each items in new screen. This can be used when we want to show animations or any movements.

Scroll view is a subclass of frame layout.

**Linear layout**

Linear layout is used when we want to place many elements but only one at a line. It is mostly used in form creations in android apps.

Elements can be arranged horizontally or vertically.

**Relative layout**

Relative layout is used when we want to specify the position of the child elements in reference to the other elements or in reference to the parent container.

**Table layout**

Table layout is used when we want to add elements in table related view. Elements can be placed in rows and columns. Each row can have any number of elements.

**List view**

Subclass of adapter view. List view is used when we want to view elements in a list.

**Grid view**

Subclass of adapter view. The grid view is used when we want to view the elements in a grid. Similar to table view but more customizable.

**Web view**

This is a sub class of the absolute layout. It can be used to arrange elements in a view like web pages. Used the x, y coordinates. More similar to absolute layout.

**R file**

When we are programming with java, the R.java file is created and it hold each and every resource’s id that we use. All string, array, drawable and all other resources can be accessed in reference to the R.java file.