Week 2 mobile interface

2.1

 Several ViewGroup classes exist:

* LinearLayout - Arranges Views horizontally or vertically
* RelativeLayout - Arranges Views in relation to each other
* ConstraintLayout - Arranges Views in relation to each other using horizontal and vertical constraints
* TableLayout - Arranges Views in rows and columns
* GridLayout - Arranges Views in a grid
* FrameLayout - Displays a single View or overlays multiple Views
* The ***wrap\_content*** constant makes the View just large enough to contain the View's contents.
  + android:layout\_height="wrap\_content"
* The ***match\_parent*** constant makes the View fill the largest amount of space the parent ViewGroup permits.
  + android:layout\_width="match\_parent"

ViewGroup - parent

View - child

Lay out Hierachy is in brackets

<>

<>

<> - class 3

2.2

Makes buttons in vertical line

1

2

3

android:orientation="vertical">

Button Location on this page

Check Boxes on this page

User name and password on this page

2.3

Table, grid, frame layouts

2.4

Widgets and event handling

2.5

Button widgets

(Fab) – floating action button- circular button that appears tto float above the UI and performs a screen primary action Ex think the add button on a grocery list

2.6

Common used attributes

* ***android:text*** - Sets the text to display.
* ***android:textColor*** - Sets the text color.
* ***android:textSize*** - Sets the text size (usually with sp units).
* ***android:textStyle*** - Sets the text style to **bold**, *italic*, normal, or bold|italic.
* ***android:textAllCaps*** - Displays text in all capital letters when set to true.
* ***android:shadowColor*** - Sets the shadow color.
* ***android:shadowDx*** - Sets the shadow's horizontal offset.
* ***android:shadowDy*** - Sets the shadow's vertical offset.
* ***android:shadowRadius*** - Sets the shadow's radius.

Callbacks may be created with the ***TextWatcher*** interface that are called before, during, and after an EditText's text changes. Because the TextWatcher interface defines three callbacks, a class that implements TextWatcher must implement all three methods. A common error is to implement only one of the callback methods, which results in a syntax error.

2.7

On and off switch

Radio buttons – a group of options selected

Check boxes

Spinners – smaller widget than radio buttons but similar function

2.8

Progress bars

Seeker bar – thumb slider

Ratings bar

2.9

Image view

Vector drawables- special artwork that takes more time to load

2.10

Styles

Themes

inheritance