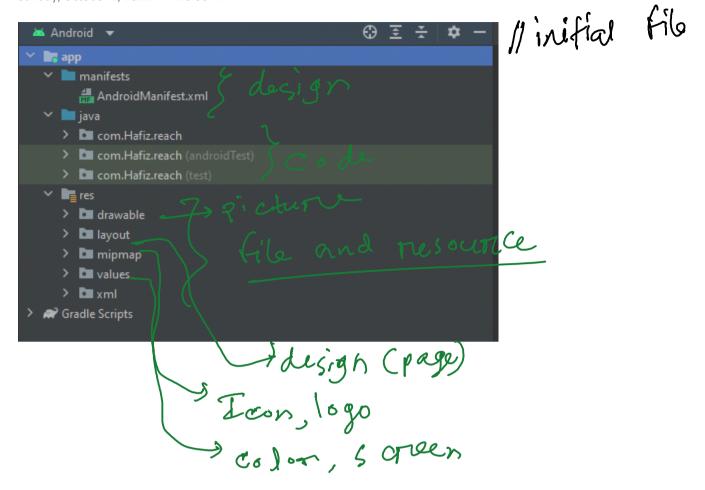
Layouts and file structure

Sunday, October 2, 2022 10:06 AM



Initial Problems-

Cannnot run even "Hello world program!!

Error -

java.lang.NullPointerException (no error message)

- Try: Run with --stacktrace option to get the stack trace. Run with --info or --debug option to get more log output. Run with --scan to get full insights.
- Get more help at https://help.gradle.org

BUILD FAILED in 7s Running Gradle task 'assembleDebug'... 8.8s Exception: Gradle task assembleDebug failed with exit code 1

Solution:

We need to update the '.gradle' file(module)

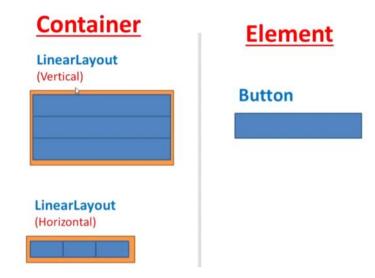
Initially the code looks like this:

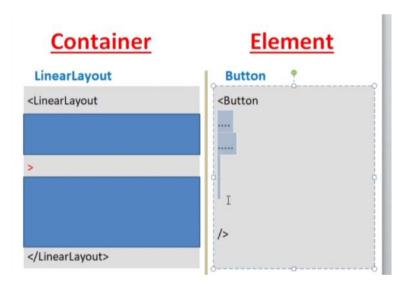
We need to add this line on android class:

```
lintOptions {
      checkReleaseBuilds false
   }
```

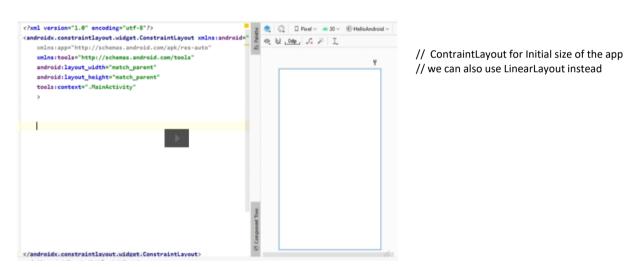
Now it will look like this:

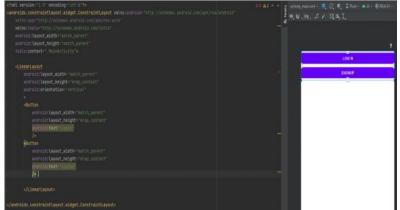
And hopefully solve the problem





```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
                                                                       // Container
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
                                                                       //Element
        android:text="Hello! This is my first app"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```





// Horizontal - elements will be added Side by side; // vertical - ''' '' up to down

// Match Parent - Full screen (According to initial height and width // Wrap content - The actual space needed for an element // More elements- Textview , imageview

Textview and Imageview

Monday, October 3, 2022 7:32 PM



// ScaleType : centerCrop --> fill with the image

More properties:

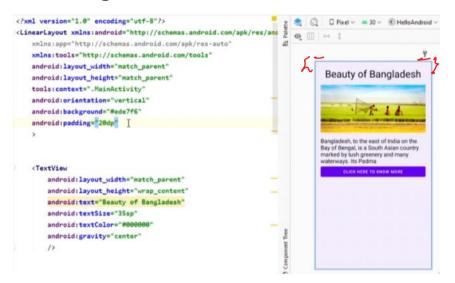
1.Margin

- -> can be used in every element
- -> variations
 - -> marginTop
 - -> marginRight/left etc

2.Background

```
<
```

3.Padding



Suppose we want to ADD three button like this



How can we achieve?

Step 1:

WeightSum: the some of total weights of the buttons

Step 2:

```
<Button
android:id="@+id/button3"
android:layout_width="fill_parent"
android:layout_height="match_parent"
android:text="Button"
android:layout_weight="30"
/>
```

// fill_parent instead of match_parent

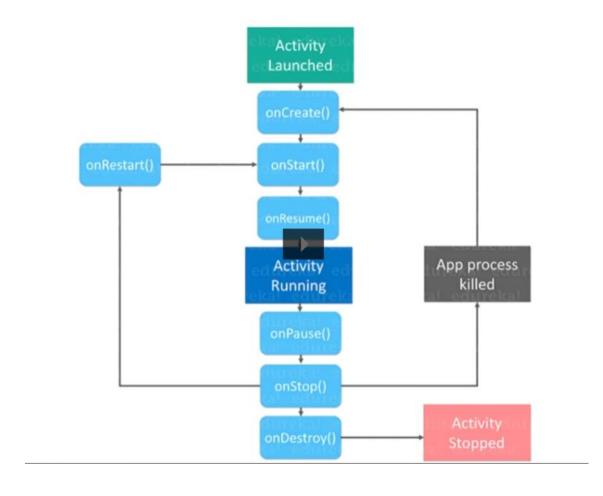
// Weight = 30 (each)

3×30=90

</ScrollView}

1:17 PM

- ->Scroll View is a container
- -> It Enables us to scroll the elements under it
- -> But it cannot work without vertical linear layout

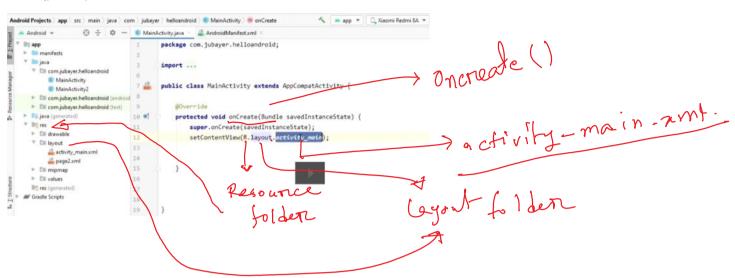


OnCreate() - Start The app(initially) OnPause() - Minimize

OnResume() - After Minimize OnRestart() - Restart OnDestroy()- Closing the app

Main Activity

Wednesday, October 5, 2022 3:00 PM



A what will run initially ? and why?

- Main Activity Java and it will call activity-main-xml

-> Every Element Should be given an id Like this:

```
<Button
      android:id="@+id/myButtor
      android: layout_width="match_parent"
      android: layout_height="wrap_content"
      android: layout_margin="20dp"
      android:text="Click Here"
      android:textSize="35sp"
      />
Then Connect:
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button clikButton;
        TextView tvDisplay;
        clikButton = findViewById(R.id.myButton)
```

OnClickListener

Wednesday, October 5, 2022 3:53 PM

```
clikButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        // Augine & code here
    }
});
```

```
MainActivity.java 🐇 🟯 activity_main.xml >
10 applic class MainActivity extends AppCompatActivity {
13 *
            protected void onCreate(Bundle savedInstanceState) {
14
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_main);
16
                Button clikButton;
18
                TextView tvDisplay:
19
20
                clikButton = findViewById(R.id.cLickButton);
                tvDisplay = findViewById(R.id.tvDisplay);
                clikButton.setOnClickListener(new View.OnClickListener() {
24
25. (6)
                    public void onClick(View v) {
26
                       tvDisplay.setText("Hello. Thank you! Its working");
28
29
                });
38
```

N'if we click on Button, it will show the fent. Wednesday, October 5, 2022 4:25 PM

-> Every Element and container have a property - Visibility

-> It has 3 value: Visible, invisible, Gone

Visible:

Invisible: exist on screen but not shown

Gone: Out of the screen

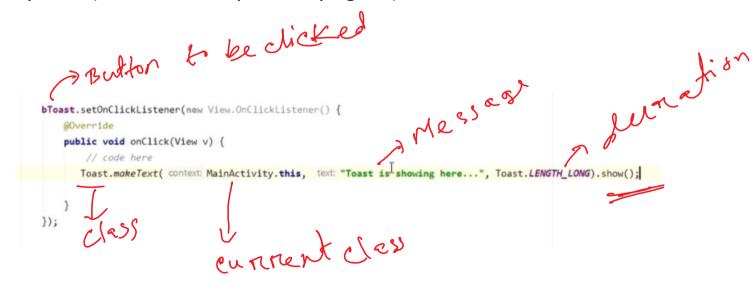
```
<ImageView
    android:id="@+id/image"
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:src="@drawable/cover_image"
    android:scaleType="centerCrop"
    android:visibility="visible"
/>
```

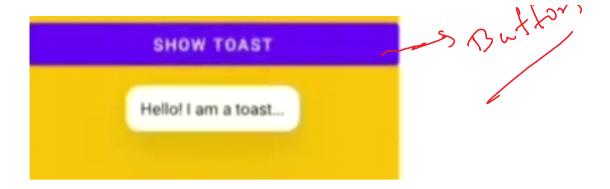
In Java Code

```
com / jubaver / helicandroid / Se MainActivity / Se onCreate
 MainActivity.java 🐣 🏭 activity_main.xml
20 01
             protected void onCreate(Bundle savedInstanceState) {
                 super.onCreate(savedInstanceState);
                 setContentView(R.layout.activity_main);
23
24
                 image = findViewById(R.id.image);
                 bGone = findViewById(R.id.bGone);
26
                 bShow = findViewById(R.id.bShow);
                 mainLayout = findViewById(R.id.mainLayout);
28
29
30
                 bShow.setOnClickListener(new View.OnClickListener() {
                     @Override
32 (0)
                     public void onClick(View v) {
34
                          image.setVisibility(View.VISIBLE);
                 });
                 bGone.setOnClickListener(new View.OnClickListener() {
39
40 0
                     public void onClick(View v) {
41
                         image.setVisibility(View.GONE);
42
43
                         mainLayout.setVisibility(View.GONE);
```

Toast:

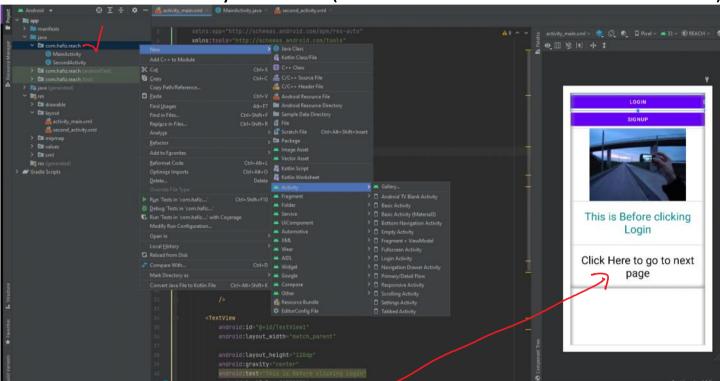
Toast is Basically a PopUp message from the system (Like 'Invalid Input', 'Try again')





First Select an element which will be used to switch the page.

-> Create New Activity Java File (also xml file will be created with this)



- -> Select an element which will be used for switching say this TextView
- -> Then In The current JavaFile (MainActivity.java)

"Intent" Class is used For Switching

```
TextView tb2;
tb2 = findViewById(R.id.TextView3);
tb2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent myintent = new Intent( packageContext MainActivity.this , SecondActivity.class);
        startActivity(myintent);
    }
});
```

Convert website into app

Thursday, October 6, 2022 3:37 AM

Step -1: WebView;

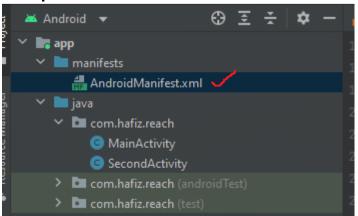
```
<WebView

android:id="@+id/Web"
android:layout_width="match_parent"
android:layout_height="match_parent"
/>
```

Step 2:

```
WebView wb = findViewById(R.id.Web);
wb.getSettings().getJavaScriptEnabled();
wb.loadUrl("https://bongoacademy.com/");
```

Step 3:



Add this line for Internet permission

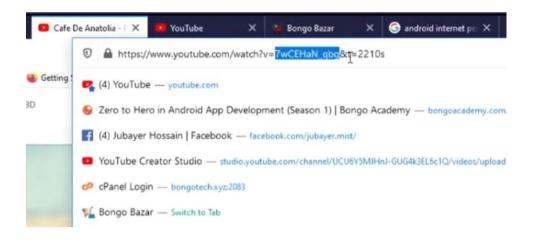
<uses-permissionandroid:name="android.permission.INTERNET"/>

All Set now!!

For Playing Video in App!

```
mWebView.getSettings().setJavaScriptEnabled(true);
mWebView.loadUrl("https://www.youtube.com/embed/7wCEHaN_qbg");
```

Change the link In this way:



Then:

