

LEARNING android-activity

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#android-

activity

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About

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Chapter 1: Getting started with android- activity

Remarks

This section provides an overview of what android-activity is, and why a developer might want to use it.

It should also mention any large subjects within android-activity, and link out to the related topics. Since the Documentation for android-activity is new, you may need to create initial versions of those related topics.

Examples

Installation or Setup

Detailed instructions on getting android-activity set up or installed.

Activity

Activity is complete screen. UI is XML based and

```
package com.example.android.activity;
import android.os.Bundle;
import android.app.Activity;

public class MainActivity extends Activity {

@Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

    }
}
```

NOTE Activity must be declared in AndroidManifest.xml before using it.

E.g:

Every activity has its layout file in xml format, we include its layout using setContentView method of Activity class. E.g. setContentView (R.layout.activity_main)

Layout file example

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_dashboard"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    //Add other views here
</LinearLayout>
```

Read Getting started with android-activity online: https://riptutorial.com/android-activity/topic/1890/getting-started-with-android-activity

Chapter 2: Hello World

Remarks

onCreate() is the most essential part of an activity, it's where most of your activity logic goes.

Examples

Basic Activity structure

Activity is the root UserInterface in Android and have it's own life-cycle.

MainActivity.java

```
public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        Toast.makeText(this, "Activity created sucessfully!", Toast.LENGTH_LONG).show();
    }
}
```

AndroidManifest.xml (should be edited)

Read Hello World online: https://riptutorial.com/android-activity/topic/2868/hello-world

Chapter 3: overriding back button

Examples

Double back to close application

You may have noticed that many applications have double-back-click functionality to exit the app. In this example, we are overriding the default back button action using the <code>onBackPressed()</code> method override.

This method will Toast a message for the single back-click action, and will close the app if the user clicks the back button twice within two seconds. We use a Handler for the functionality that relies on the two-second interval.

```
boolean singleBack = false;

@Override
public void onBackPressed() {
   if (singleBack) {
      super.onBackPressed();
      return;
   }

   this.singleBack = true;
   Toast.makeText(this, "Double Back to exit", Toast.LENGTH_SHORT).show();

   new Handler().postDelayed(new Runnable() {

      @Override
      public void run() {
            singleBack=false;
      }
      }, 2000);
}
```

Read overriding back button online: https://riptutorial.com/android-activity/topic/3812/overriding-back-button

Credits

S. No	Chapters	Contributors
1	Getting started with android-activity	Community, user12345
2	Hello World	Daniel Nugent, George, Nayan Srivastava, yubaraj poudel
3	overriding back button	Daniel Nugent, Prakash Bala