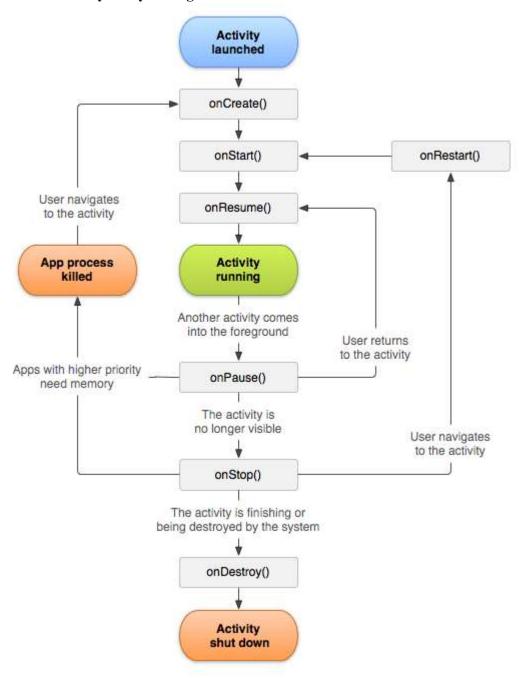
Practical 17

Practical Related Questions

1. Draw the activity life cycle diagram.



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2. Give the hierarchy of directory structure where you store activity file.

res/layout/activity_foo.xml - This file describes the layout of the activity's UI. This means the placement of every view object on one app screen.

src/.../FooActivity.java - The Activity "controller" that constructs the activity using the view, and handles all event handling and view logic for one app screen.

3. Write difference between onStop() and onDestroy() methods, also between onPause() and onResume()methods.

onDestroy() is called whenever:

- The user takes out the activity from the "recent apps" screen.
- The user takes out the activity from the "recent apps" screen. onStop() is called whenever:
- The user leaves the current activity.

So in your example, when the user launches Activity B, Activity A called onStop().

Exercise

1.

a) MainActivity.java

```
package com.example.activitylife;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.util.Log;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Log.d("lifecycle","onCreate invoked");
    }
    @Override
    protected void onStart() {
        super.onStart();
```

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```
Log.d("lifecycle", "onStart invoked");
@Override
protected void onResume(){
  super.onResume();
  Log.d("lifecycle", "OnResume Invoked");
@Override
protected void onPause(){
  super.onPause();
  Log.d("lifecycle", "OnPause Executed");
@Override
protected void onStop(){
  super.onStop();
  Log.d("lifecycle", "OnStop Lifecycle Executed");
@Override
protected void onRestart(){
  super.onRestart();
  Log.d("lifecycle", "OnRestart Executed");
@Override
protected void onDestroy(){
  super.onDestroy();
  Log.d("lifecycle", "OnDestroy Executed");
```

b) activity_main.xml