



Royal Education Society's

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COLLEGE OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY(COCSIT), LATUR

संगणकशास्त्र व माहितीतंत्रज्ञान महाविद्यालय(कॉक्सिट), लातूर.

Ambajogai Road, LATUR-413531 (Maharashtra)

COCSIT

Ph.: 02382-229191, Fax : 02382-228646, Website : www.cocsit.org.in, E-mail : cocsit365@rediffmail.com

MAD/LAB/07

- Create an application that will start mobile torch on toggle button on and off.

Step-1 open android studio.

If android studio start from welcome screen of android studio then

Click on **New Project**.

If you open previous created project then first close current open project.

Goto File -> select close project options

You can see the **wel-come screen** of android studio repeat step 1

Click on **New Project**.

Select **empty Activity** form right side panel and click on next button.

Step-2 Write the Application name as **MADLAB07**

Select Language for Development is **Java**

Select Minimum SDK, scroll upside and choose android version **4.1 JellyBean**.

Click on **Finish** Button

Step-3 Your Application show two types of file in that select **activity_main.xml**

Right click on design page area and select **GOTO XML**.

Change the page layout as relative layout.

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    style="@style/Theme.MyDemoApp"
    tools:context=".MainActivity">

<ToggleButton
    android:id="@+id/tourch"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerInParent="true"
    android:background="@drawable/buttonbg"
    android:text="ToggleButton"
    android:textColor="@color/white"
    android:textSize="40sp" />

</RelativeLayout>

```

Step-4 GOTO MainActivity.java

1. Create object of respective controls(ToggleButton).
ToggleButton t1;
2. Create anchor two object of
String cameraId;
CameraManager cameraManager;
3. Find the design layout id of EditText inside Oncreate Methods.
t1=findViewById(R.id.tourch);
4. Register Camera service
cameraManager=(CameraManager) getSystemService(Context.CAMERA_SERVICE);
try {
 cameraId=cameraManager.getCameraIdList()[0];
} catch (CameraAccessException e) {
 e.printStackTrace();
}

5. Set Lister to Toggle Button object

```
t1.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener()
{
    @RequiresApi(api = Build.VERSION_CODES.M)

    @Override
    public void onCheckedChanged(CompoundButton compoundButton, boolean b) {

        try {

            cameraManager.setTorchMode(cameraId,b);

        }

        catch (CameraAccessException e) {

            e.printStackTrace();

        }

    }

});
```

FINISH

BY G.P SHINDE