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Lab2 Permission(by Android Studio)

In this tutorial, we will learn how Permission is used for a project. Also we will take our focus on the case that if we don't give permission

Objective

In some cases, we will need to request some permissions for our projects, but how to use these permissions could be a big issue in 1

Software Requirement

Android Studio

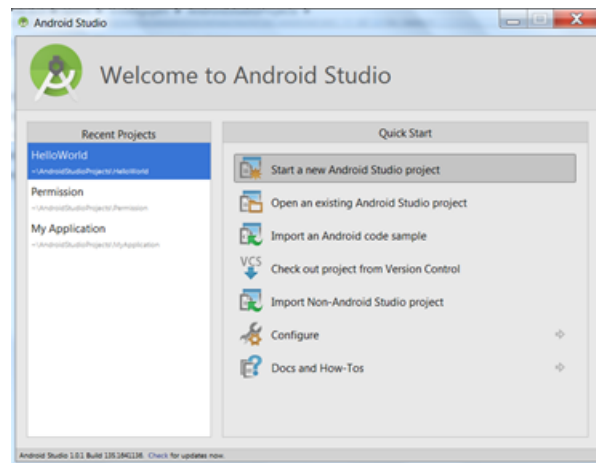
Java JDK, JRE

Android SDK

Tutorial

Create a new android project:

Start Android Studio



Click-> Start a new Android Studio project

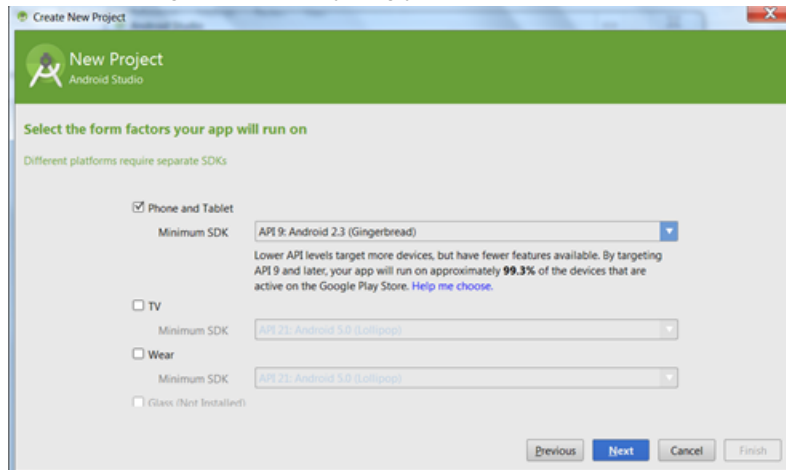
Application Name: Permission

Company Domain: anything. For example: android

Package Name: android.permission

Click Next

Minimum SDK: choose API 9: Android 2.3 (Gingerbread) or anything you want



Click Next

Choose Blank Activity

Activity Name: PermissionActivity

Layout Name: main

Click Finish

In Permission->app->src->main->res->layout->main.xml, copy and paste the following code

main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

    android:orientation="vertical"

    android:layout_width="fill_parent"

    android:layout_height="fill_parent"

    >

    <Button android:layout_width="wrap_content" android:layout_height="wrap_content" android:id="@+id/interb" android:text="Internet">
</Button>

    <Button android:layout_height="wrap_content" android:id="@+id/smsb" android:text="SMS" android:layout_width="74dp"></Button>

</LinearLayout>
```

Create new xml file in Permission-> app->src->main->res->layout, name it internet.xml, then copy and paste following code

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout

    xmlns:android="http://schemas.android.com/apk/res/android"
```

```

        android:orientation="vertical"

        android:layout_width="match_parent"

        android:layout_height="match_parent">

        <WebView android:layout_width="match_parent" android:layout_height="match_parent" android:id="@+id/webView">
</WebView>

</LinearLayout>

```

Create new xml file in Permission-> app->src->main->res->layout, name it sms.xml, then copy and paste following code

```

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

    android:orientation="vertical"

    android:layout_width="fill_parent"

    android:layout_height="fill_parent"

    android:weightSum="1">

    <LinearLayout android:id="@+id/linearLayout1" android:layout_width="match_parent" android:layout_height="wrap_content">

        <TextView android:layout_width="wrap_content" android:id="@+id/textView1" android:layout_height="wrap_content" android:textAppearance
android:attr/textAppearanceLarge" android:text="To: "></TextView>

        <EditText android:layout_width="wrap_content" android:layout_weight="1" android:layout_height="wrap_content" android:inputType="ph
        <requestFocus></requestFocus>

        </EditText>

    </LinearLayout>

    <TextView android:id="@+id/textView2" android:textAppearance="?
android:attr/textAppearanceLarge" android:layout_width="match_parent" android:layout_height="11dp"></TextView>

    <MultiAutoCompleteTextView android:layout_width="match_parent" android:layout_height="wrap_content" android:layout_weight="0.59" a
</MultiAutoCompleteTextView>

    <TextView android:id="@+id/textView4" android:layout_height="wrap_content" android:textAppearance="?
android:attr/textAppearanceLarge" android:layout_width="match_parent" android:layout_weight="0.06"></TextView>

    <LinearLayout android:id="@+id/linearLayout2" android:layout_width="match_parent" android:layout_height="wrap_content" android:layou

        <TextView android:id="@+id/textView3" android:textAppearance="?
android:attr/textAppearanceLarge" android:layout_height="match_parent" android:layout_width="wrap_content" android:layout_weight="0.33'
</TextView>

        <Button android:layout_width="wrap_content" android:layout_weight="0.29" android:layout_height="72dp" android:id="@+id/send" andrc
</Button>

```

</LinearLayout>

</LinearLayout>

Go to Permission->src->Android.Permission, then Create two file "InternetActivity.java" and "SMSActivity.java"

Copy and paste the following code in "InternetActivity.java"

```
package android.permission;

import android.app.Activity;

import android.os.Bundle;

import android.webkit.WebView;

public class InternetActivity extends Activity {

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.internet);

        final WebView webView = (WebView) findViewById(R.id.webView);

        webView.getSettings().setJavaScriptEnabled(true);

        webView.loadUrl("http://www.google.com");

    }

}
```

Copy and paste the following code in "SMSActivity.java"

```
package android.permission;

import android.app.Activity;

import android.app.PendingIntent;

import android.content.Intent;

import android.os.Bundle;

import android.telephony.gsm.SmsManager;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

@SuppressWarnings("deprecation")
```

```

public class SMSActivity extends Activity {

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.sms);


        final Button send = (Button) findViewById(R.id.send);

        final EditText text = (EditText) findViewById(R.id.Text);

        final EditText addr = (EditText) findViewById(R.id.addr);

        send.setOnClickListener(new OnClickListener() {

            public void onClick(View v) {

                // get address and text

                String maddr = addr.getText().toString();

                String mtext = text.getText().toString();

                SmsManager smsmanager = SmsManager.getDefault();

                // send message

                if (maddr.trim().length() != 0 && mtext.trim().length() != 0) {

                    try {

                        PendingIntent pintent = PendingIntent.getBroadcast(

                            SMSActivity.this, 0, new Intent(), 0);

                        smsmanager.sendTextMessage(maddr, null, mtext, pintent,

                            null);

                    } catch (Exception e) {

                        e.printStackTrace();

                    }

                    Toast.makeText(SMSActivity.this, "sending success",

                        Toast.LENGTH_LONG).show();

                } else

                    Toast.makeText(SMSActivity.this,

                        "Enter Address and Message", Toast.LENGTH_SHORT)

                        .show();

```

```

};

});

}

}

```

Go to Permission->app->src->main->java->android.permission->PermissionActivity.java

Copy and paste the following code in "PermissionActivity.java"

```

package android.permission;

import android.content.Context;

import android.support.v7.app.ActionBarActivity;

import android.os.Bundle;

import android.view.Menu;

import android.view.MenuItem;

import android.view.View;

import android.widget.Button;

import android.content.Intent;

public class PermissionActivity extends ActionBarActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        final Context context = this;

        super.onCreate(savedInstanceState);

        setContentView(R.layout.main);

        final Button interb = (Button) findViewById(R.id.interb);

        // Internet Button listener

        interb.setOnClickListener(new View.OnClickListener() {

            public void onClick(View v) {

                // Start Internet Activity

                Intent intent = new Intent(context, InternetActivity.class);

                startActivity(intent);

            }

        });

        final Button smsb = (Button) findViewById(R.id.smsb);

```

```

// SMS Button listener

smsb.setOnClickListener(new View.OnClickListener() {

    public void onClick(View v) {

        // Start SMS Activity

        Intent intent = new Intent(context, SMSActivity.class);

        startActivity(intent);

    }

});

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

    // Inflate the menu; this adds items to the action bar if it is present.

    getMenuInflater().inflate(R.menu.menu_permission, menu);

    return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

    // Handle action bar item clicks here. The action bar will

    // automatically handle clicks on the Home/Up button, so long

    // as you specify a parent activity in AndroidManifest.xml.

    int id = item.getItemId();

    //noinspection SimplifiableIfStatement

    if (id == R.id.action_settings) {

        return true;

    }

    return super.onOptionsItemSelected(item);

}

}

```

Finally, go to Permission-> app->src->main->AndroidManifest.xml, copy and paste following code to it.

```

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

    package="android.permission" >

```

```

<application

    android:allowBackup="true"

    android:icon="@drawable/ic_launcher"

    android:label="@string/app_name"

    android:theme="@style/AppTheme" >

    <activity

        android:name=".SMSActivity"

        android:theme="@android:style/Theme.NoTitleBar" />

    <activity

        android:name=".InternetActivity"

        android:theme="@android:style/Theme.NoTitleBar" />

    <activity

        android:name=".PermissionActivity"

        android:label="@string/app_name" >

        <intent-filter>

            <action android:name="android.intent.action.MAIN" />

            <category android:name="android.intent.category.LAUNCHER" />

        </intent-filter>

    </activity>

</application>

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

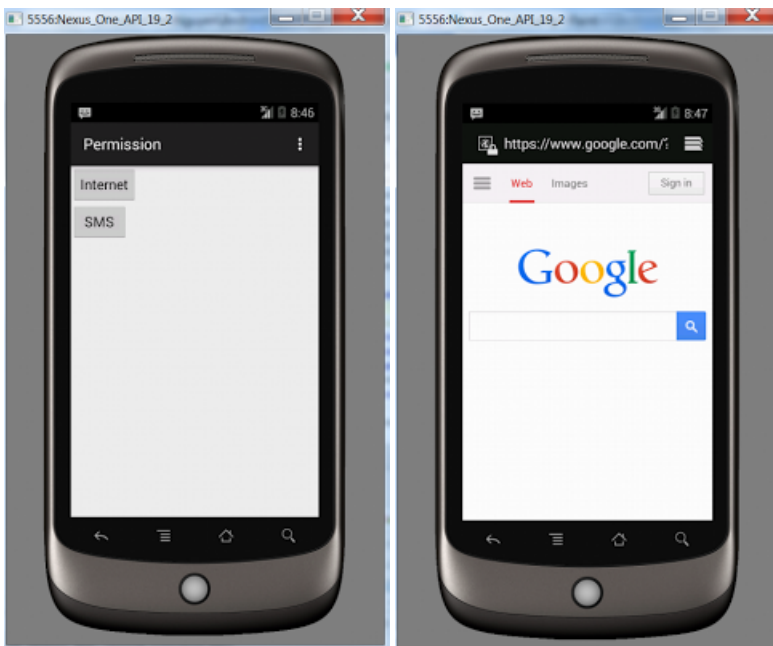
<uses-permission android:name="android.permission.INTERNET" />

</manifest>

```

Save the project-> Click Run.

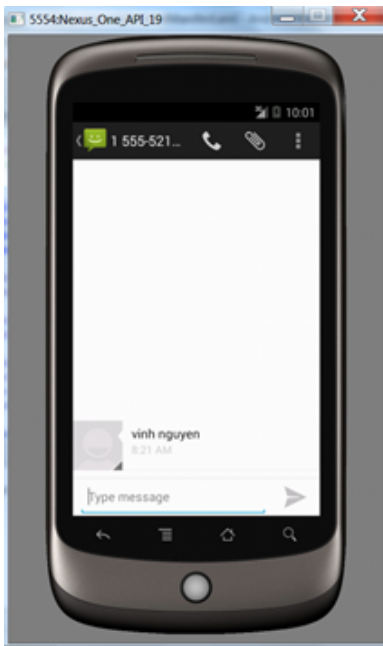
Run on emulator NexusOne API 19 (You can run any emulator you want, but its SDK must be greater or equal minimum SDK you defined at 1



Run two emulators to test SMS



Then 5554 emulator will receive the message.



Comments

You do not have permission to add comments.