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Starting Another Activity Preferences

Android Application Development Training

Xorsat Pvt. Ltd

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Outline

Starting Another Activity

- Respond to the Button

- Create the Second Activity

- WebView

Saving Data

- Saving Key-Value Sets

Preference APIs

- Writing Preferences

- Reading Preferences

Starting Another Activity

- Respond to the Button
- Build an Intent
- Start the Second Activity
- Create the Second Activity
- Receive the Intent
- Display the Message

Respond to the Button

```
<Button  
    android:id="@+id/home_button_aboutus"  
    android:onClick="onClick_about"  
    ----  
/>
```

In MainActivity.java (just before ending of class)

```
public void onClick_about(View view) {  
  
}
```

- Be public
- Have a void return value
- Have a View as the only parameter (this will be the View that was clicked)

Build an Intent

An Intent is an object that provides runtime binding between separate components (such as two activities).

```
Intent intent = new Intent(this, AboutActivity.class);
```

The constructor used here takes two parameters:

1. A Context as its first parameter (this is used because the Activity class is a subclass of Context)
2. The Class of the app component to which the system should deliver the Intent (in this case, the activity that should be started)

Start the Second Activity

To start an activity, call `startActivity()` and pass it your `Intent`. The system receives this call and starts an instance of the `Activity` specified by the `Intent`.

```
public void onClick_about(View view) {  
    Intent intent = new Intent(this, AboutActivity.class);  
    startActivity(intent);  
}
```

Create the Second Activity

To create a new activity:

Click **New** in the toolbar.

In the window that appears, open the **Android** folder and select **Android Activity**. Click **Next**.

Select **BlankActivity** and click **Next**.

Fill in the activity details:

Name: AboutActivity.java

Adding WebView (activity_about.xml)

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <RelativeLayout style="@style/MyActionBar">

        <TextView
            style="@style/MyActionBarTitle"
            android:layout_centerInParent="true"
            android:text="@string/title_activity_about" />
    </RelativeLayout>

    <WebView
        android:id="@+id/webView_about"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent" />

</LinearLayout>
```


Initialize WebView (AboutActivity.java)

```
public class AboutActivity extends Activity {  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_about);  
        WebView mWebView = (WebView)findViewById(R.id.webView_about);  
        mWebView.loadUrl("http://xorsat.com/index.php/about");  
    }  
}
```

src/main/**AndroidManifest.xml**

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

Saving Data

- Saving key-value pairs of simple data types in a shared preferences file.
- Saving arbitrary files in Android's file system
- Using databases managed by SQLite

Saving Key-Value Sets

- For saving small collection of key-values
- A SharedPreferences object points to a file containing key-value pairs and provides simple methods to read and write them.

Order Activity

Import *activity_order.xml*

Import OrderActivity.java

```
public class OrderActivity extends Activity {  
  
    EditText mEditTextName;  
    EditText mEditTextPhone;  
    EditText mEditTextAddress;  
    SharedPreferences mSharedPreferences;
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_order);  
    init();  
    populate();  
}
```

Initialize variables

```
private void init() {
    mSharedPreferences = PreferenceManager.
getDefaultSharedPreferences(this);
    mEditTextName = (EditText) findViewById(R.id.
order_editText_name);
    mEditTextPhone = (EditText) findViewById(R.id.
order_editText_phone);
    mEditTextAddress = (EditText) findViewById(R.id.
order_editText_address);
}
```

```
private void showMessage(String message) {
    Toast.makeText(this, message, Toast.LENGTH_SHORT).show();
}
```

Write Preferences

```
private void savePreferences() {  
    SharedPreferences.Editor editor = mSharedPreferences.edit();  
    editor.putString("key_name", mEditTextName.getText().toString());  
    editor.putString("key_phone", mEditTextPhone.getText().  
toString());  
    editor.putString("key_address", mEditTextAddress.getText().  
toString());  
    editor.commit();  
}
```

```
private boolean isValid() {
    if (mEditTextName.getText().toString().equalsIgnoreCase("")) {
        showMessage("Please give your name");
        return false;
    } else if (mEditTextPhone.getText().toString().equalsIgnoreCase("")) {
        showMessage("Please give your phone number");
        return false;
    } else if (mEditTextAddress.getText().toString().equalsIgnoreCase("")) {
        showMessage("Please give your address");
        return false;
    }
    return true;
}
```

```
public void onClick_order(View view) {
    if (isValid()) {
        savePreferences();
        Intent mIntent = new Intent(OrderActivity.this, ThanksActivity.class);
        startActivity(mIntent);
    }
}
```

Read Preferences

```
private void populate() {  
    String strName = mSharedPreferences.getString("key_name", "");  
    String strPhone = mSharedPreferences.getString("key_phone", "");  
    String strAddress = mSharedPreferences.getString("key_address", "");  
    mEditTextName.setText(strName);  
    mEditTextPhone.setText(strPhone);  
    mEditTextAddress.setText(strAddress);  
}
```