

Common Android API

Chapter - 6

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Android Networking API

- ◉ Connecting to Network
- ◉ To perform the network operations to your application manifest must include the following permissions:
 - ◉ `<uses-permission android:name="android.permission.INTERNET"/>`
 - ◉ `<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"/>`

Sample Code to Check Connectivity

- ◉ `ConnectivityManager cm = (ConnectivityManager) getSystemService(Context.CONNECTIVITY_SERVICE);`
- ◉ `NetworkInfo netInfo = cm.getActiveNetworkInfo();`
- ◉ `if (netInfo != null && netInfo.isConnectedOrConnecting())`
- ◉ `{`
- ◉ `return true;`
- ◉ `}`

Android WEB API

- ◉ Web View
- ◉ Build web apps in webview
- ◉ XML Code
- ◉ `<WebView android:id=@+id/webview`
- ◉ `android:layout_width="fill_parent"`
- ◉ `android:layout_height="fill_parent" />`

- ◉ Java Code

- ◉ `WebView mywebview = (WebView) findViewById(R.id.webview);`

- ◉ `Mywebview.loadurl("http://www.harivandana.academy.org");`

- ◉ <Manifest

- ◉ <uses-permission
android:name="android.permission.INTE
RNET"/>

- ◉ </Manifest>

Android Telephony API

- ◉ Get phone status using telephony api
- ◉ Using telephony manager we can retrieve the current status of mobile phone and also get some basic information about device.

Sample Code

- ◉ TelephonyManager TM =
(TelephonyManager) getSystemService(Context.TELEPHONY_SERVICE);
- ◉ int callstate = tm.getCallState();
- ◉ String state;
- ◉ Switch(callstate)
- ◉ {
 - > Case TelephonyManager.CALL_STATE_IDLE:
 - state="phone is idle";
 - Break;
 - > Case TelephonyManager.CALL_STATE_OFFHOOK:
 - state="phone is in use";
 - Break;
 - > Case TelephonyManager.CALL_STATE_RINGING:
 - state="phone is Ringing";
 - Break;
- }

● END