Hybrid Application Development Lab

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WebView

- If you want to deliver a web application (or just a web page) as a part of a client application, you can do it using WebView.
- The WebView class is an extension of Android's View class that allows you to display web pages as a part of your activity layout.
- It does not include any features of a fully developed web browser, such as navigation controls or an address bar.
- All that WebView does, by default, is show a web page.

To add a WebView to your app, you can either :

- Include the <WebView> element in your activity layout, or
- Set the entire Activity window as a WebView in onCreate().

Adding a WebView in the activity layout

To add a `WebView` to your app in the layout, add the following code to your activity's layout XML file:

```xml
<WebView
    android:id="@+id/webview"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
/>
```

To load a web page in the `WebView`, use `loadUrl()`. For example:

Kotlin   **Java**

```java
WebView myWebView = (WebView) findViewById(R.id.webview);
myWebView.loadUrl("http://www.example.com");
```

To add a `WebView` to your app in an activity's `onCreate()` method instead, use logic similar to the following:

Kotlin   **Java**

```java
WebView myWebView = new WebView(activityContext);
setContentView(myWebView);
```

Then load the page with:

Kotlin   **Java**

```java
myWebView.loadUrl("https://www.example.com");
```

Load the URL from an HTML string

Kotlin   **Java**

```java
// Create an unencoded HTML string
// then convert the unencoded HTML string into bytes, encode
// it with Base64, and load the data.
String unencodedHtml =
      "<html><body>'%23' is the percent code for '#' </body></html>";
String encodedHtml = Base64.encodeToString(unencodedHtml.getBytes(),
         Base64.NO_PADDING);
myWebView.loadData(encodedHtml, "text/html", "base64");
```

To get internet access, request the INTERNET permission in your manifest file

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