

Resource Request from Native Android Applications

Overview

MobileFirst applications can access resources using the `WLResourceRequest` REST API. The REST API works with all adapters and external resources.

This tutorial explains how to use the `WLResourceRequest` API with an HTTP adapter.

To create and configure an Android native project, first follow the [Adding the MobileFirst Platform Foundation SDK to Android Applications \(../../adding-the-mfpf-sdk/adding-the-mfpf-sdk-to-android-applications\)](#) tutorial.

WLResourceRequest

The `WLResourceRequest` class handles resource requests to adapters or external resources.

1. Define the URI of the resource:

```
URI adapterPath = new URI("/adapters/RSSReader/getFeed");
```

- For JavaScript adapters, use `/adapters/{AdapterName}/{procedureName}`
- For Java adapters, use `/adapters/{AdapterName}/{path}`
- To access resources outside of the project, use the full URL

2. Create a `WLResourceRequest` object and choose the HTTP Method (GET, POST, etc):

```
WLResourceRequest request = new WLResourceRequest(adapterPath, WLResourceRequest.GET);
```

3. Add the required parameters:

- In JavaScript adapters, which use ordered nameless parameters, pass an array of parameters with the name `params`:

```
request.setQueryParameter("params", ["param1", "param2"]);
```

- In Java adapters or external resources, use the `setQueryParameter` method for each parameter:

```
request.setQueryParameter("param1", "value1");  
request.setQueryParameter("param2", "value2");
```

4. CHANGE according to the new sample Call the resource by using the `.send()` method.

Specify a `MyInvokeListener` class instance:

```
request.send(new MyInvokeListener());
```

See the user documentation to learn more about `WLResourceRequest` and other signatures for the `send` method, which are not covered in this tutorial.

The response

CHANGE according to the new sample When the resource call is completed, the framework calls one of the methods of the `MyInvokeListener` class.

1. CHANGE according to the new sample Specify that the `MyInvokeListener` class implements the `WLResponseListener` interface:

```
public class MyInvokeListener implements WLResponseListener {  
}
```

2. Implement the `onSuccess` and `onFailure` methods.

If the resource call is successful, the `onSuccess` method is called. Otherwise, the `onFailure` method is called. Use these methods to get the data that is retrieved from the adapter.

The `response` object contains the response data and you can use its methods and properties to retrieve the required information.

```
public void onSuccess(WLResponse response) {  
    String responseText = response.getResponseText();  
    AndroidNativeApp.updateTextView("Successfully called the resource\n" + responseText);  
}  
  
public void onFailure(WLFailResponse response) {  
    String responseText = response.getResponseText();  
    AndroidNativeApp.updateTextView("Failed to call the resource\n" + responseText);  
}
```

Sample application

Click to download (<https://github.com/MobileFirst-Platform-Developer-Center/ResourceRequestAndroid>) the Native project.

- The ResourceRequestAndroid project contains a native Android application that uses a MobileFirst native SDK to communicate with MobileFirst Server.
- Make sure to update the `mfpclient.properties` file in the native Android project with the required server settings.

SCREENSHOT