

Resource request from native Windows 8 Universal applications

Overview

To create and configure a Windows 8 (Universal) native project, first follow the [Configuring a native Windows 8 application with the MobileFirst Platform SDK \(../../hello-world/configuring-a-native-windows-8-application-with-the-mfp-sdk/\)](#) tutorial.

MobileFirst applications can access resources using the `WLResourceRequest` REST API. This tutorial explains how to use the `WLResourceRequest` API with an HTTP adapter.

Initializing WLClient

```
1 | WLClient client = WLClient.getInstance();
```

1. To establish a connection to MobileFirst Server, use the `connect` method by specifying the `MyConnectResponseListener` class instance as a parameter.

```
1 | client.connect(new MyConnectResponseListener(this));
```

The `WLClient` instance tries to connect to the MobileFirst Server instance according to the properties of the `wlclient.properties` file.

After the connection is established, it invokes one of the methods of the `MyConnectResponseListener` class.

2. Specify that the `MyConnectResponseListener` class implements the `WLResponseListener` interface.

```
1 | public class MyConnectResponseListener : WLResponseListener
```

The `WLResponseListener` interface defines two methods:

```
- public void onSuccess (WLResponse response) { }
- public void onFailure (WLFailResponse response) { }
```

3. Use the previous methods to process connection success or connection failure.

Invoking an adapter procedure

After the connection is established with a MobileFirst Server instance, you can use the `WLResourceRequest` class to invoke adapter procedures or call any REST resources.

1. Define the URI of the resource. For a JavaScript HTTP adapter:

```
/adapters/{AdapterName}/{ProcedureName}
```

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

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

```
1 | WLResourceRequest request = new WLResourceRequest(adapterPath,WLResourceRequest.GET)
```

3. Add the required parameters.

- For JavaScript-based adapters, use the `params` parameter name to set an array of parameters.

```
1 | request.setQueryParameter("params",["MobileFirst_Platform"]);
```

- For Java adapters or other resources, you can use `setQueryParameter` for each parameter.

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

- Trigger the request with `.send()`.

Specify a `MyInvokeListener` class instance as a parameter.

You learn how to define this class instance in the next section.

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

Receiving a procedure response

After the procedure invocation is completed, the `WLClient` instance calls one of the methods of the `MyInvokeListener` class.

As before, you must specify that the `MyInvokeListener` class implements the `WLResponseListener` interface.

```
1 | using IBM.Worklight;  
2 | namespace InvokingAdapterProceduresWin8{  
3 |     public class MyInvokeListener : WLResponseListener  
4 |     {  
5 |     {
```

The `onSuccess` and `onFailure` methods are invoked by the `WLClient` instance. The response object contains the response data. You can use its methods and properties to retrieve the required information.

```

1  public void onSuccess(WLResponse response)
2  {
3      WLProcedureInvocationResult invocationResponse = ((WLProcedureInvocationResult) response);
4      JObject items;
5      try
6      {
7          items = invocationResponse.getResponseJSON();
8          await dispatcher.RunAsync(CoreDispatcherPriority.Normal, () =>
9              {
10                 myMainPage.AddTextToReceivedTextBlock("Response Success: " + items.ToString());
11             });
12      }
13      catch (JsonReaderException e)
14      {
15          Debug.WriteLine("JSONException : " + e.Message);
16      }
17  }
18
19  public void onFailure(WLFailResponse response)
20  {
21      await dispatcher.RunAsync(CoreDispatcherPriority.Normal, () =>
22          {
23              myMainPage.AddTextToReceivedTextBlock("Response failed: " + response.ToString());
24          });
25  }

```

Sample application

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

Click to download (<https://github.com/MobileFirst-Platform-Developer-Center/InvokingAdapterProceduresWin8>) the Native project.

- The InvokingAdapterProcedures project contains a **MobileFirst Native API** to deploy to MobileFirst Server.
- The InvokingAdapterProceduresWin8 project contains a **native Windows 8 Universal application** that uses a MobileFirst native API library to communicate with a MobileFirst Server instance.

Make sure to update the `wlclient.properties` file in **InvokingAdapterProceduresWin8** with the relevant server settings.

Invoke Adapter Procedures

[Connect Server](#)[Invoke Procedure](#)

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