Resource request from native Windows Phone 8 applications

Overview

To create and configure a Windows Phone 8 (Silverlight) native project, first follow the Configuring a native Windows Phone 8 application with the MobileFirst Platform SDK (../../hello-world/configuring-a-native-windows-phone-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

WLClient client = WLClient.getInstance();
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1. To establish a connection to MobileFirst Server, use the connect method by specifying the MyConnectResponseListener class instance as a parameter.

```
{\it client.connect} (\textbf{new} \ {\it MyConnectResponseListener}(\textbf{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.

```
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 WLClient instance to invoke adapter procedures.

- 1. Create a WLProcedureInvocationData object with the adapter and procedure names.
- 2. Add the required parameters as an object array and set request options (for example: Invocation Context).

- 3. Get the existing WLClient instance and use it to invoke an adapter procedure.
- 4. Specify the MyInvokeListener class instance as a parameter.

```
WLProcedureInvocationData invocationData = new WLProcedureInvocationData("RSSReader", "getFeed");
invocationData.setParameters(new Object[]{});
String myContextObject = "InvokingAdapterProceduresWP8";
WLRequestOptions options = new WLRequestOptions();
options.setInvocationContext(myContextObject);
WLClient.getInstance().invokeProcedure(invocationData, new MyInvokeListener(this), options);
```

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.

```
using IBM.Worklight;
namespace InvokingAdapterProceduresWP8{
  public class MyInvokeListener :
WLResponseListener
  { }
{
```

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

```
public void onSuccess(WLResponse response)
  WLProcedureInvocationResult invocationResponse = ((WLProcedureInvocationResult) response)
  JObject items;
  try
    items = invocationResponse.getResponseJSON();
    Deployment.Current.Dispatcher.BeginInvoke(() =>
       myMainPage.AddTextToReceivedTextBlock("Response Success: " + items.ToString());
    });
  catch (JsonReaderException e)
    Deployment.Current.Dispatcher.BeginInvoke(() =>
       myMainPage.AddTextToReceivedTextBlock("JSONException: " + e.Message);
    });
  }
}
public void onFailure(WLFailResponse response)
  Deployment.Current.Dispatcher.BeginInvoke(() =>
    myMainPage.AddTextToReceivedTextBlock("Response failed: " + response.ToString());
  });
}
```

Sample application

Click to download (https://github.com/MobileFirst-Platform-Developer-Center/InvokingAdapterProcedures/tree/release71) the MobileFirst project.

Click to download (https://github.com/MobileFirst-Platform-Developer-Center/InvokingAdapterProceduresWP8/tree/release71) the Native project.

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

Make sure to update the wlclient.properties file in NativeWP8Invoking with the relevant server settings.

