Form-based authentication in native Windows 8 applications

Overview

This tutorial illustrates the native Windows 8 client-side authentication components for form-based authentication.
Prerequisite: Make sure that you read Form-based authentication (../) first.

This tutorial covers the following topics:

- Creating the client-side authentication components
- Sample application

Creating the client-side authentication components

Create a native Windows 8 application and add the MobileFirst native APIs as explained in the documentation.

FormChallengeHandler

Create a `FormChallengeHandler` class as a subclass of `ChallengeHandler`.
Your `FormChallengeHandler` class must implement the `isCustomResponse` and `handleChallenge` methods.

The `isCustomResponse` method checks every custom response received from MobileFirst Server to verify whether this is the expected challenge.

```
public override bool isCustomResponse(WLResponse response)
{
    if (response == null || response.getResponseText() == null || !response.getResponseText().Contains("j_secur
ity_check"))
    {
        return false;
    }
    else
    {
        return true;
    }
}
```

The `handleChallenge` method is called after the `isCustomResponse` method returns `true`.
Within this method, present your login form. Different approaches are available.

```
public override void handleChallenge(JObject response)
{
  CoreApplication.MainView.CoreWindow.Dispatcher.RunAsync(CoreDispatcherPriority.Normal
,
async () =>
  {
     MainPage._this.LoginGrid.Visibility = Visibility.Visible;
  });
}
```

From the login form , credentials are passed to the `FormChallengeHandler` class. Use the `submitLoginForm()` method to send input data to the authenticator.

```
public void sendResponse(String username, String password)
{<br />
   Dictionary<String, String> parms = new Dictionary<String, String>()
;
   parms.Add("j_username", username);
   parms.Add("j_password", password);
   submitLoginForm("j_security_check", parms, null, 0, "post");
}
```

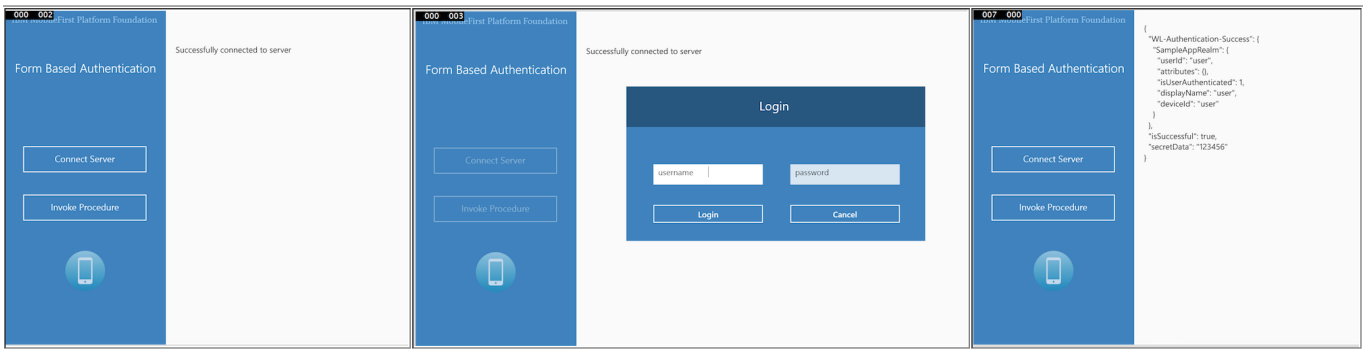
MainPage

Within the `MainPage` class, connect to MobileFirst Server, register your `challengeHandler` and invoke the protected adapter procedure.
The procedure invocation triggers MobileFirst Server to send a challenge that will trigger our challenge handler.

```
WLClient wlClient = WLClient.getInstance();
FormChallengeHandler ch = new FormChallengeHandler();
wlClient.registerChallengeHandler((BaseChallengeHandler<JObject>)ch);
MyResponseListener mylistener = new MyResponseListener(this);
wlClient.connect(mylistener);
```

Because the native API not protected by a defined security test, no login form is presented during server connection. Invoke the protected adapter procedure. The login form is presented by the `challengeHandler`.

```
WLProcedureInvocationData invocationData = new WLProcedureInvocationData("DummyAdapter", "getSecretD
ata");
Object[] parameters = { 0 };
invocationData.setParameters(parameters);
MyInvokeListener listener = new MyInvokeListener(this);
WLClient.getInstance().invokeProcedure(invocationData, listener, new WLRequestOptions());
```

Sample application

Click to download (http://public.dhe.ibm.com/software/products/en/MobileFirstPlatform/docs/v700/NativeFormBasedAuthProject.zip) the Studio project.
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