## Adapter-based authentication in hybrid applications

This is a continuation of the Adapter-based authentication (../) tutorial.

## Creating the client-side authentication components

The application consists of two main div tags:

- The AppDiv element is used to display the application content.
- The AuthDiv element is used for authentication forms.

When authentication is required, the application hides the AppDiv element and shows the AuthDiv element. When authentication is complete, it does the opposite.

## **AppDiv**

The buttons are used to call the getSecretData procedure and to log out.

The ResponseDiv element is used to display the getSecretData response.

#### **AuthDiv**

AuthInfo displays error messages.

AuthUsername and AuthPassword are used to enter credentials.

AuthSubmitButton and AuthCancelButton submits or cancels the authentication request.

The AuthDiv element is styled as display: none because it must not be displayed before authentication is requested by server.

### **Challenge Handler**

Use the WL.Client.createChallengeHandler method to create a challenge handler object. Supply a realm name as a parameter.

```
var singleStepAuthRealmChallengeHandler = WL.Client.createChallengeHandler("SingleStepAuthRealm");
```

The isCustomResponse function of the challenge handler is called each time a response is received from the server. That function is used to detect whether the response contains data that is related to this challenge handler.

The function returns true or false.

```
singleStepAuthRealmChallengeHandler.isCustomResponse = function(response) {
   if (!response || !response.responseJSON || response.responseText === null) {
      return false;
   }
   if (typeof(response.responseJSON.authRequired) !== 'undefined'){
      return true;
   } else {
      return false;
   }
};
```

If the isCustomResponse function returns true, the framework calls the handleChallenge function. This function is used to perform required actions, such as hide the application screen or show the login screen.

If authRequired is true, it shows the login screen, cleans up the password field, and shows an error message (if applicable).

If authRequired is false, it shows AppDiv, hides AuthDiv, and notifies the framework that authentication completed successfully.

In addition to the methods that the developer must implement, the challenge handler contains mandatory challenge handler functions that the developer must use:

- The submitAdapterAuthentication function is used to send collected credentials to a specific adapter procedure. It has the same signature as the WL.Client.invokeProcedure API.
- The <u>submitSuccess</u> function notifies the framework that the authentication process completed successfully. The framework then automatically issues the original request that triggered authentication.
- The submitFailure function notifies the framework that the authentication process completed with failure. The framework then disposes of the original request that triggered authentication.

# \* Note: You must attach each of these functions to its object. For example: myChallengeHandler.submitSuccess()

Clicking the submit button triggers the function that collects the user name and the password from the HTML input fields and submits them to the adapter. Note the use of the submitAdapterAuthentication method.

```
$("#AuthSubmitButton").bind('click', function () {
   var username = $("#AuthUsername").val();
   var password = $("#AuthPassword").val();
   var invocationData = {
      adapter : "SingleStepAuthAdapter",
      procedure : "submitAuthentication",
      parameters : [ username, password ]
   };
   singleStepAuthRealmChallengeHandler.submitAdapterAuthentication(invocationData, {});
});
```

# Sample application

Click to download

(http://public.dhe.ibm.com/software/products/en/MobileFirstPlatform/docs/v630/AdapterBasedAuthenticationHybridProject.zip) the Studio project.







Last modified on