Custom Authenticator and Login Module in hybrid applications

This is a continuation of Custom Authenticator and Login Module (../).

Creating client-side authentication components

The application consists of two main *div* elements:

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 *AppDiv* and shows *AuthDiv*. When authentication is complete, it does the opposite.

AppDiv

```
<div id="AppDiv">
     <input type="button" id="getSecretDataButton" value="Call protected adapter proc" o
nclick="getSecretData()" />
      <input type="button" class="appButton" value="Logout" onclick="WL.Client.logout('Custo
mAuthenticatorRealm',{onSuccess: WL.Client.reloadApp})" />
      <div id="ResponseDiv"></div>
</div>
```

Buttons are used to call the getSecretData procedure and to log out.

AuthDiv

AuthDiv is styled with display:none because it must not be displayed before the server requests the authentication.

Challenge Handler

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

```
var customAuthenticatorRealmChallengeHandler = WL.Client.createChallengeHandler("Cust
omAuthenticatorRealm");
```

The *isCustomResponse* function of the challenge handler is called each time a response is received from the server.

It is used to detect whether the response contains data that is related to this challenge handler. It must return true

```
customAuthenticatorRealmChallengeHandler.isCustomResponse = function(response) {}
```

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

```
customAuthenticatorRealmChallengeHandler.handleChallenge = function(response){}
```

In addition to the methods that the developer must implement, the challenge handler contains functionality that the developer might want to use:

- *submitLoginForm* to send collected credentials to a specific URL. The developer can also specify request parameters, headers, and callback.
- *submitSuccess* to notify the framework that the authentication finished successfully. The framework then automatically issues the original request that triggered the authentication.
- *submitFailure* to notify the framework that the authentication completed with a failure. The framework then disposes of the original request that triggered the authentication

Note: Attach each of these functions to its object. For example: myChallengeHandler.submitSucces()

isCustomResponse

If the challenge JSON block contains the authStatus property, return true, otherwise return false.

```
customAuthenticatorRealmChallengeHandler.isCustomResponse = function(response) {
   if (!response || !response.responseJSON) {
      return false;
   }
   if (response.responseJSON.authStatus)
      return true;
   else
      return false;
};
```

handleChallenge

If the *authStatus* property equals "required", show the login form, clean up the password input field, and display the error message if applicable.

if *authStatus* equals "complete", hide the login screen, return to the application, and notify the framework that authentication completed successfully.

Clicking the **login** button triggers the function that collects the user name and password from HTML input fields and submits them to server. You can set request headers here and specify callback functions.

```
$('#AuthSubmitButton').bind('click', function () {
   var reqURL = '/my_custom_auth_request_url';
   var options = {};
   options.parameters = {
      username : $('#AuthUsername').val(),
      password : $('#AuthPassword').val()
   };
   options.headers = {};
   customAuthenticatorRealmChallengeHandler.submitLoginForm(reqURL, options, customAuthenticatorRealmChallengeHandler.submitLoginFormCallback);
});
```

Clicking the **cancel** button hides *AuthDiv*, shows *AppDiv* and notifies the framework that authentication failed.

```
$('#AuthCancelButton').bind('click', function () {
  $('#AppDiv').show();
  $('#AuthDiv').hide();
  customAuthenticatorRealmChallengeHandler.submitFailure();
});
```

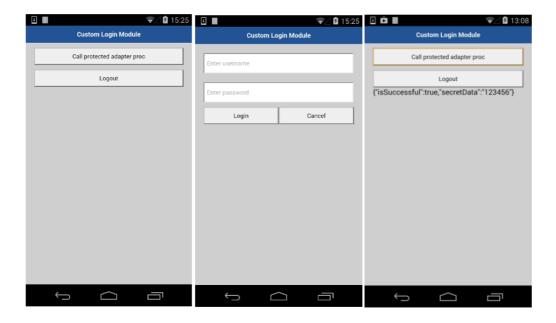
The **submitLoginFormCallback** function checks the response for the containing server challenge once again. If the challenge is found, the *handleChallenge* function is called again.

```
customAuthenticatorRealmChallengeHandler.submitLoginFormCallback = function(response)
{
    var isLoginFormResponse = customAuthenticatorRealmChallengeHandler.isCustomResponse(
    response);
    if (isLoginFormResponse){
        customAuthenticatorRealmChallengeHandler.handleChallenge(response);
    }
};
```

Sample application

Click to download

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



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