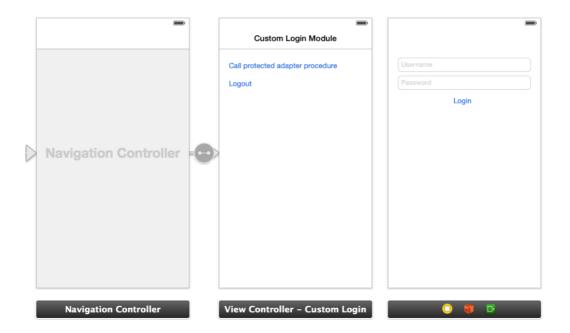
Custom Authenticator and Login Module in native iOS applications

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

Creating the client-side authentication components

Create a native iOS application and add the IBM MobileFirst Platform Foundation native APIs following the documentation.

In your storyboard, add a ViewController containing a login form.



Challenge Handler

Create a MyChallengeHandler class as a subclass of ChallengeHandler.

We will implement some of the *ChallengeHandler* methods to respond to the challenge.

- 1 @interface MyChallengeHandler : ChallengeHandler
- 2 @property ViewController* vc;
- 3 //A convenient way of updating the View
- 4 -(id)initWithViewController: (ViewController*) vc;
- 5 @end

Before calling your protected adapter, make sure to register your challenge handler using *WLClient*'s registerChallengeHandler method.

1 [[WLClient sharedInstance] registerChallengeHandler:[[MyChallengeHandler alloc] initWithViewController:self]];

The *isCustomResponse* method of the challenge handler is invoked each time that 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 either *true* or *false*.

```
@implementation MyChallengeHandler
 1
2
 3
    -(BOOL) isCustomResponse:(WLResponse *)response {
       if(response & amp; & amp; [response getResponseJson]){
 4
 5
         if ([[response getResponseJson] objectForKey:@"authStatus"]) {
            NSString* authRequired = (NSString*) [[response getResponseJson] objectForKey:@"authStatus"];
 6
 7
            //return if auth is required
     return ([authRequired compare:@"required"] == NSOrderedSame);
 8
9
10
11
       return false;
12
13
     @end
```

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

```
@implementation MyChallengeHandler
1
2
    -(void) handleChallenge:(WLResponse *)response {
3
      NSLog(@"Inside handleChallenge - need to show form on the screen");
4
      LoginViewController* loginController = [self.vc.storyboard instantiateViewControllerWithIdentifier:@"LoginViewContro
5
6
      loginController.challengeHandler = self;
7
      [self.vc.navigationController pushViewController:loginController animated:YES];
8
9
    @end
```

onSuccess and onFailure get triggers when the authentication ends.

You need to call *submitSuccess* to inform the framework that the authentication process is over, and allow the invocation's success handler to be called.

```
1
     @implementation MyChallengeHandler
2
    //...
3
    -(void) onSuccess:(WLResponse *)response {
4
       NSLog(@"inside challenge success");
5
       [self.vc.navigationController popViewControllerAnimated:YES];
6
       [self submitSuccess:response];
7
    -(void) onFailure:(WLFailResponse *)response {
8
       NSLog(@"inside challenge failure");
10
       [self submitFailure:response];
    }
11
```

In your *LoginViewController*, when the user clicks to submit his credentials, you need to call *submitLoginForm* to send the credentials to the MobileFirst Server.

```
@implementation LoginViewController
1
2
3
    - (IBAction)login:(id)sender {
4
      [self.challengeHandler
5
          submitLoginForm:@"/my custom auth request url"
6
          requestParameters:@{@"username": self.username.text, @"password": self.password.text}
7
          requestHeaders:nil
8
          requestTimeoutInMilliSeconds:0
9
          requestMethod:@"POST"];
10
    }
```

Sample application

Click to download

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

Click to download

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

