Oracle Banking Digital Experience

Mobile Application Builder – iOS
Release 17.2.0.0.0

Part No. E88573-01

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Mobile Application Builder – iOS

July 2017

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1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

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1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 17.2.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Licensing Guide

2. Install node Js

Install node js from https://nodejs.org.

3. Create project

Run Following commands on **terminal**

1. Install cordova using the command

   sudo npm install –g cordova

2. Create project using following command

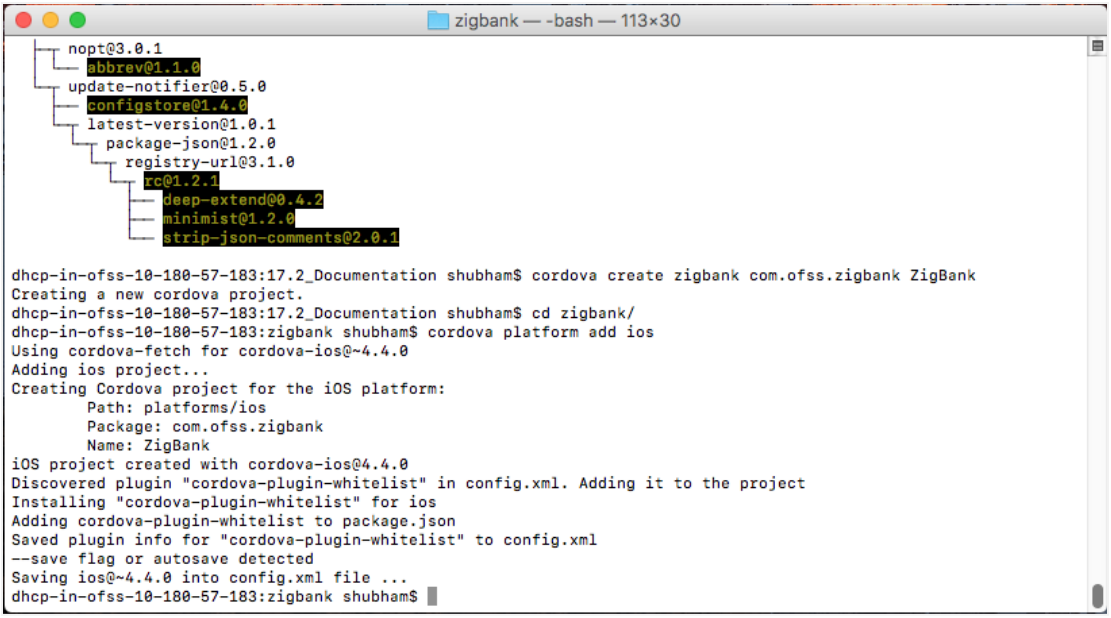
   cordova create <directory name> <package name> <project name>
   Eg : cordova create zigbank com.ofss.zigbank ZigBank

3. All subsequent commands need to be run within the project's directory

   cd <directory name>
   Eg: cd zigbank

4. Add platform ios to the project using following command

   cordova platform add ios

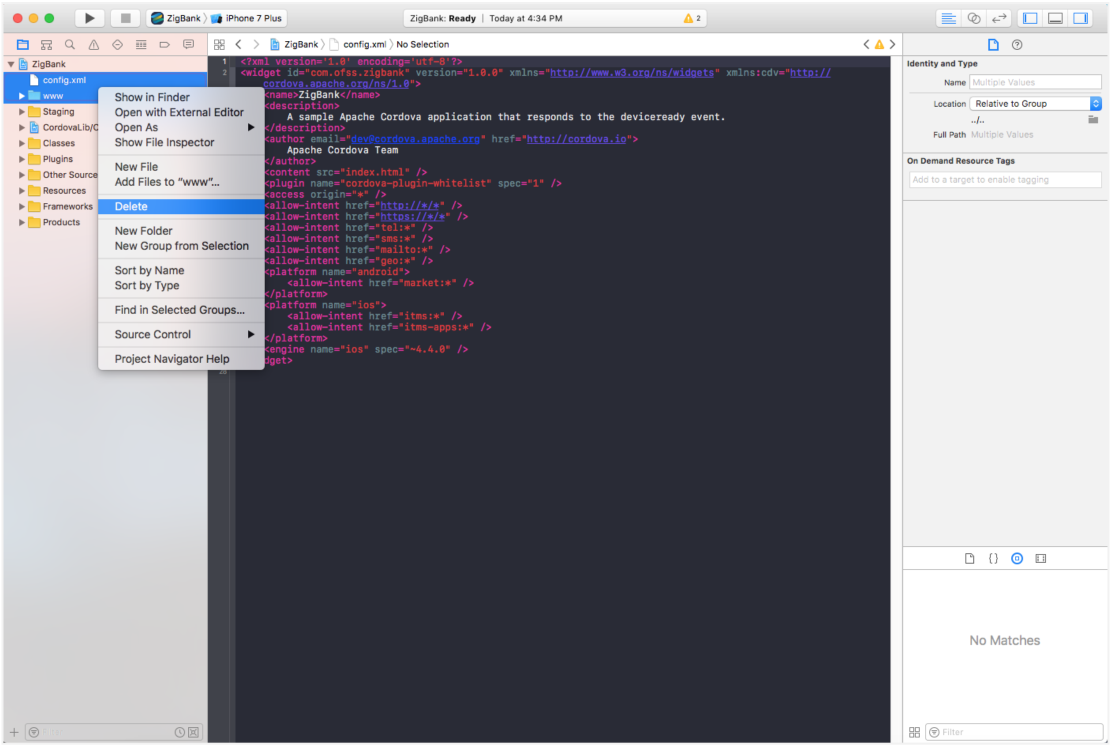


```
  ├─┬ nopt@3.0.1
  │ └── abbrev@1.1.0
  └─┬ update-notifier@0.5.0
    ├── configstore@1.4.0
    └─┬ latest-version@1.0.1
      └─┬ package-json@1.2.0
        └─┬ registry-url@3.1.0
          └─┬ rc@1.2.1
            ├── deep-extend@0.4.2
            ├── minimist@1.2.0
            └── strip-json-comments@2.0.1

dhcp-in-ofss-10-180-57-183:17.2_Documentation shubham$ cordova create zigbank com.ofss.zigbank ZigBank
Creating a new cordova project.
dhcp-in-ofss-10-180-57-183:17.2_Documentation shubham$ cd zigbank/
dhcp-in-ofss-10-180-57-183:zigbank shubham$ cordova platform add ios
Using cordova-fetch for cordova-ios@~4.4.0
Adding ios project...
Creating Cordova project for the iOS platform:
        Path: platforms/ios
        Package: com.ofss.zigbank
        Name: ZigBank
iOS project created with cordova-ios@4.4.0
Discovered plugin "cordova-plugin-whitelist" in config.xml. Adding it to the project
Installing "cordova-plugin-whitelist" for ios
Adding cordova-plugin-whitelist to package.json
Saved plugin info for "cordova-plugin-whitelist" to config.xml
--save flag or autosave detected
Saving ios@~4.4.0 into config.xml file ...
dhcp-in-ofss-10-180-57-183:zigbank shubham$
```

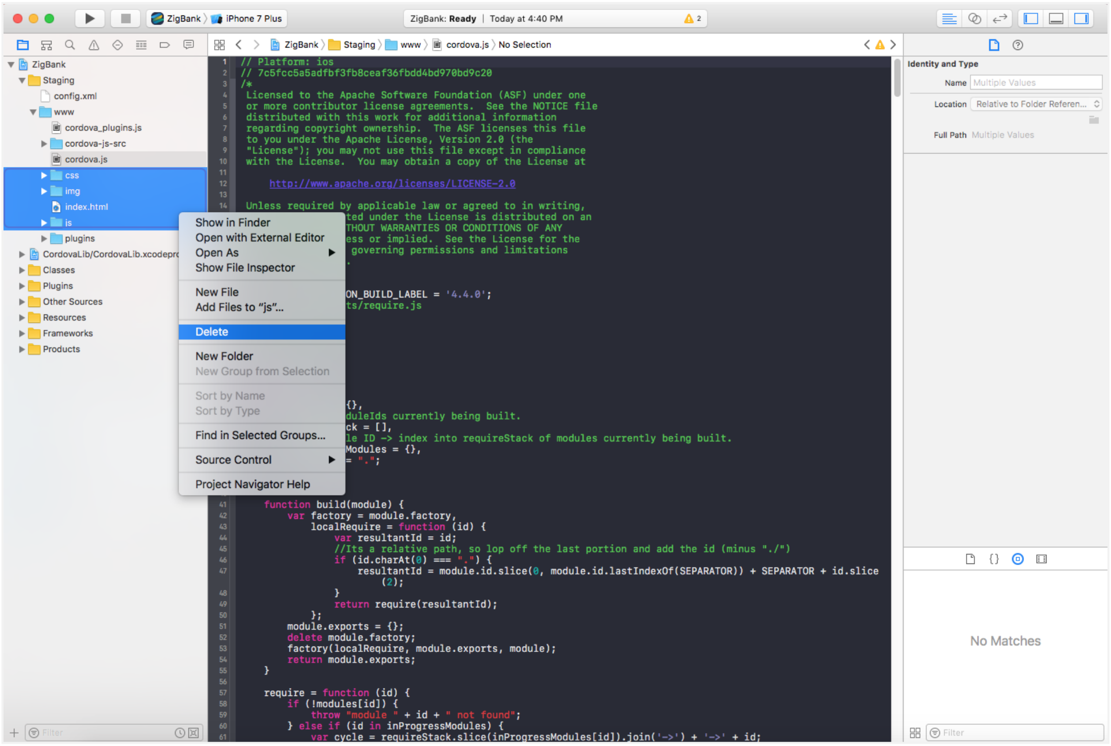
5. Extract OBDX_Installer.zip and perform the following steps on the extracted folder
   a. Copy and Replace **OBDX_Installer/installables/mobile/service/ios/Images.xcassets** directory from extracted zip into **zigbank/platforms/ios/ZigBank**
   b. Copy **cordova_plugins.js** from **OBDX_Installer/installables/mobile/service/ios/www** directory and replace it in **zigbank/platforms/ios/www/**
   c. Copy **plugins** directory from **OBDX_Installer/installables/mobile/service/ios/www** directory and paste it in **zigbank/platforms/ios/www/**
   d. Copy and Replace **config.xml** from **OBDX_Installer/installables/mobile/service/ios** into **zigbank/platforms/ios/ZigBank**
6. Open project in xcode by double clicking **zigbank/platforms/ios/ZigBank.xcodeproj**

7. Delete **config.xml** and **www** outside the staging area as shown below **Delete -> Move to Trash**



```
<?xml version='1.0' encoding='utf-8'?>
<widget id="com.ofss.zigbank" version="1.0.0" xmlns="http://www.w3.org/ns/widgets" xmlns:cdv="http://
    cordova.apache.org/ns/1.0">
    <name>ZigBank</name>
    <description>
        A sample Apache Cordova application that responds to the deviceready event.
    </description>
    <author email="dev@cordova.apache.org" href="http://cordova.io">
        Apache Cordova Team
    </author>
    <content src="index.html" />
    <plugin name="cordova-plugin-whitelist" spec="1" />
    <access origin="*" />
    <allow-intent href="http://*/*" />
    <allow-intent href="https://*/*" />
    <allow-intent href="tel:*" />
    <allow-intent href="sms:*" />
    <allow-intent href="mailto:*" />
    <allow-intent href="geo:*" />
    <platform name="android">
        <allow-intent href="market:*" />
    </platform>
    <platform name="ios">
        <allow-intent href="itms:*" />
        <allow-intent href="itms-apps:*" />
    </platform>
    <engine name="ios" spec="~4.4.0" />
    dget>
```

8. Delete & Move to trash **css, img, js, index.html from staging -> www**



```
// Platform: ios
// 7c5fcc5a5adfbf3fb8ceaf36fbdd4bd970bd9c20
/*
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                  ted under the License is distributed on an
                  THOUT WARRANTIES OR CONDITIONS OF ANY
                  ess or implied.  See the License for the
                   governing permissions and limitations


                  ON_BUILD_LABEL = '4.4.0';
                  ts/require.js







                  {},
                  duleIds currently being built.
                  ck = [],
                  le ID -> index into requireStack of modules currently being built.
                  Modules = {},
                  = ".";


    function build(module) {
        var factory = module.factory,
            localRequire = function (id) {
                var resultantId = id;
                //Its a relative path, so lop off the last portion and add the id (minus "./")
                if (id.charAt(0) === ".") {
                    resultantId = module.id.slice(0, module.id.lastIndexOf(SEPARATOR)) + SEPARATOR + id.slice
                        (2);
                }
                return require(resultantId);
            };
        module.exports = {};
        delete module.factory;
        factory(localRequire, module.exports, module);
        return module.exports;
    }

    require = function (id) {
        if (!modules[id]) {
            throw "module " + id + " not found";
        } else if (id in inProgressModules) {
            var cycle = requireStack.slice(inProgressModules[id]).join('->') + '->' + id;
```
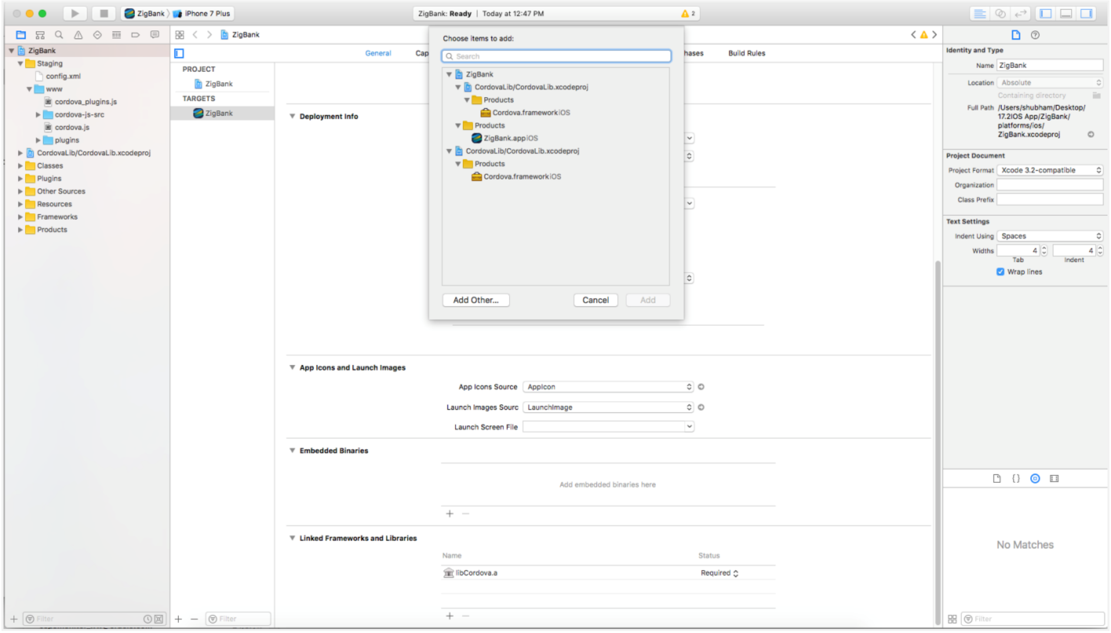
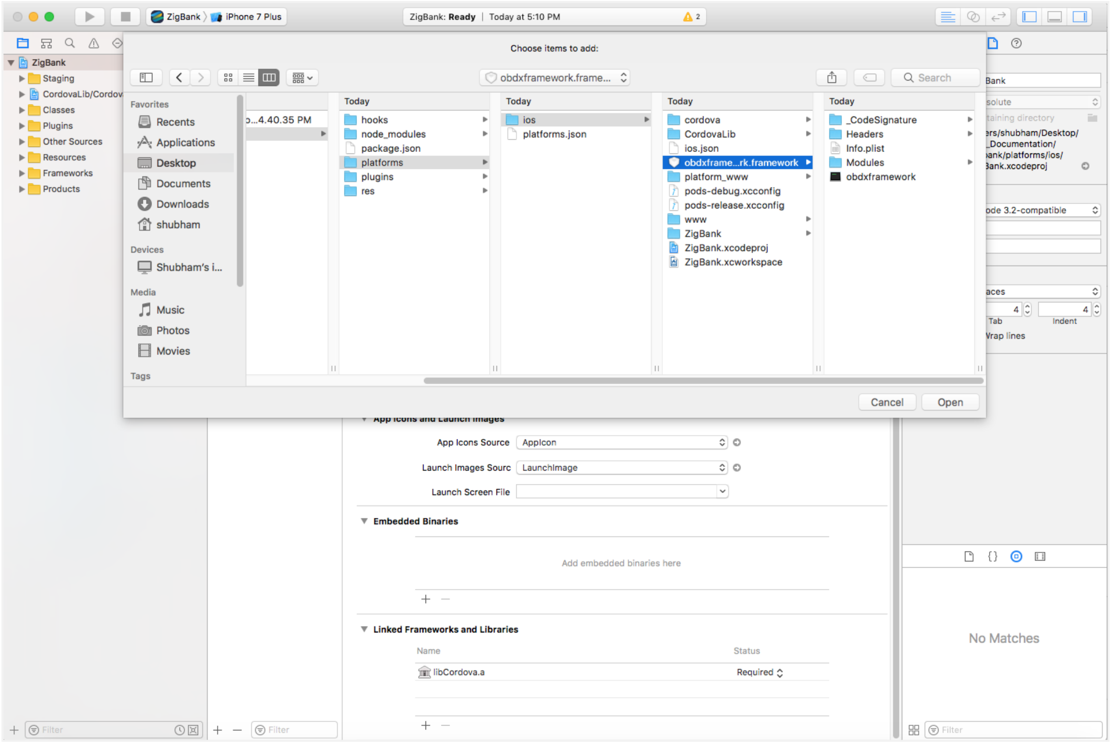
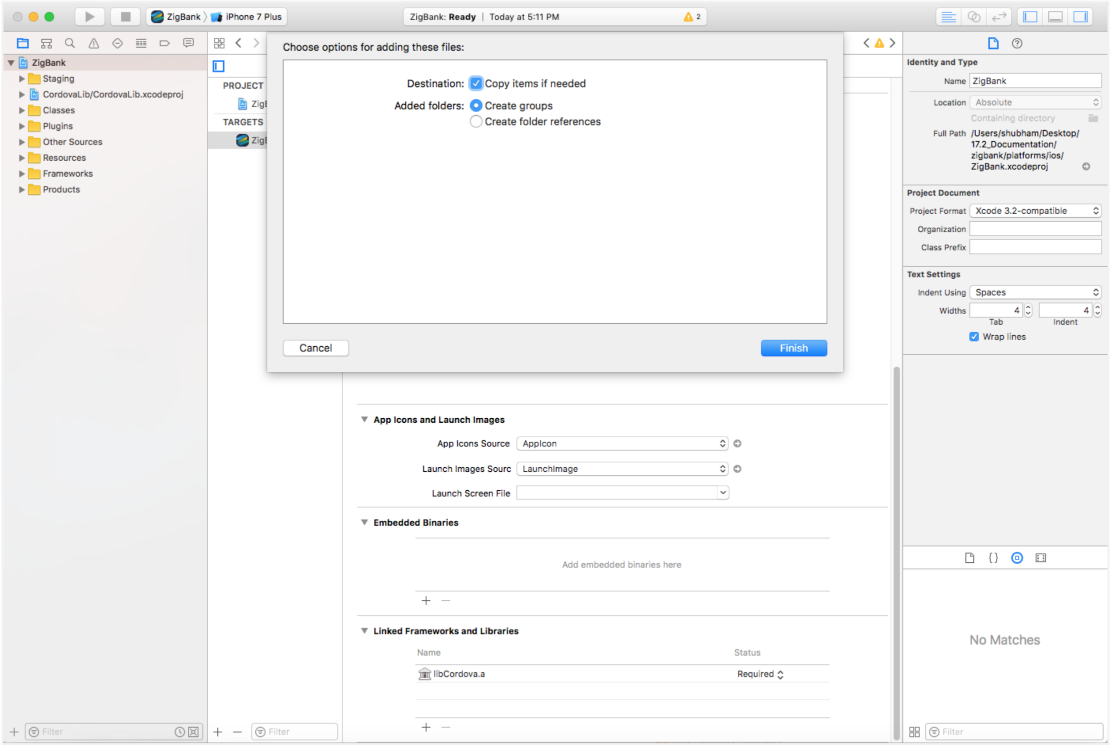

9. Using Finder, copy **obdxframework.framework** from **OBDX_Installer/installables/mobile/service/ios/iphonedevice** (if you are testing on device - Recommended) else if you are testing it on simulator use **OBDX_Installer/installables/mobile/service/ios/iphonesimulator** and paste it into **zigbank/platforms/ios**

10. Go back to xcode, Click on project(ZigBank in Navigator Pane) -> then in the right pane -> select General -> Scroll to Embedded Binaries -> click + -> click on button **add other ->** navigate to **zigbank/platforms/ios** and select **obdxframework.framework -> click on open button ->** check **Copy items if needed and select create groups(default) -> finish**





Choose items to add:



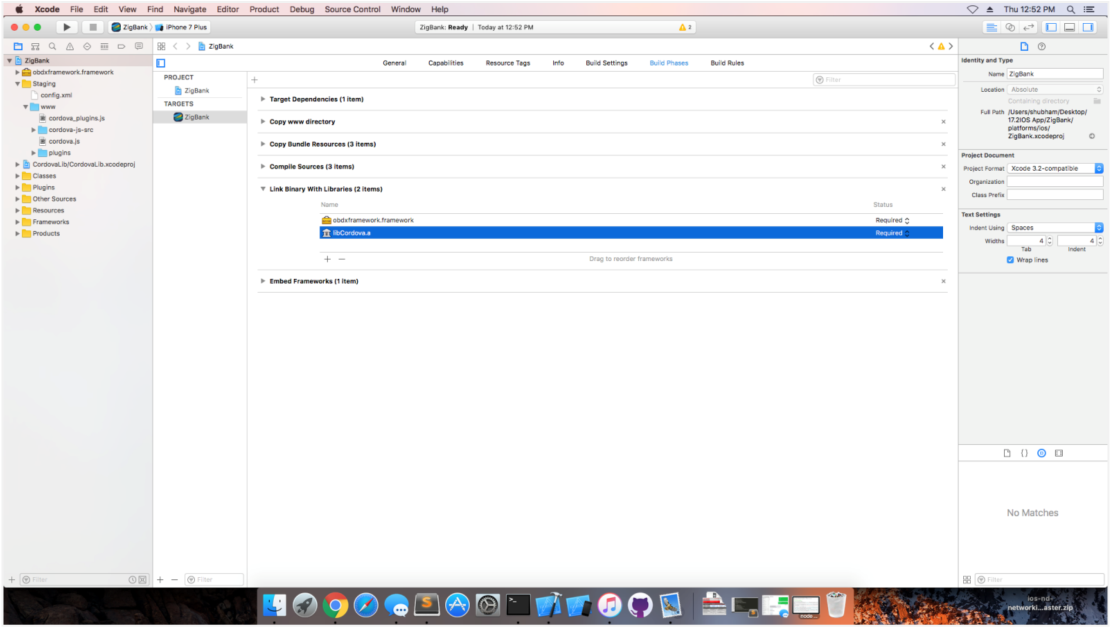
Choose options for adding these files:

Destination: ☑ Copy items if needed

Added folders: ● Create groups

○ Create folder references

11.Go to **Build Phases** under project -> **Link Binary with libraries -> select libcordova.a -> click –**



ZigBank: **Ready** | Today at 12:52 PM

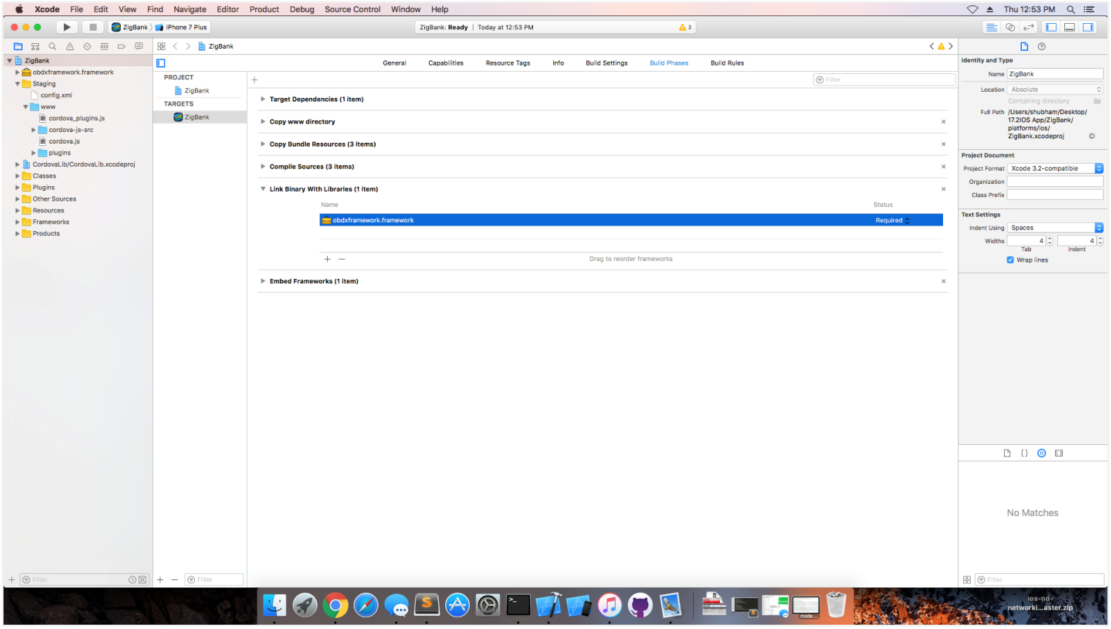
General Capabilities Resource Tags Info Build Settings Build Phases Build Rules

- Target Dependencies (1 item)
- Copy www directory
- Copy Bundle Resources (3 items)
- Compile Sources (3 items)
- Link Binary With Libraries (2 items)

Name	Status
obdxframework.framework	Required
libCordova.a	Required

Drag to reorder frameworks

- Embed Frameworks (1 item)



ZigBank: **Ready** | Today at 12:53 PM

General Capabilities Resource Tags Info Build Settings Build Phases Build Rules

- Target Dependencies (1 item)
- Copy www directory
- Copy Bundle Resources (3 items)
- Compile Sources (3 items)
- Link Binary With Libraries (1 item)

Name	Status
obdxframework.framework	Required

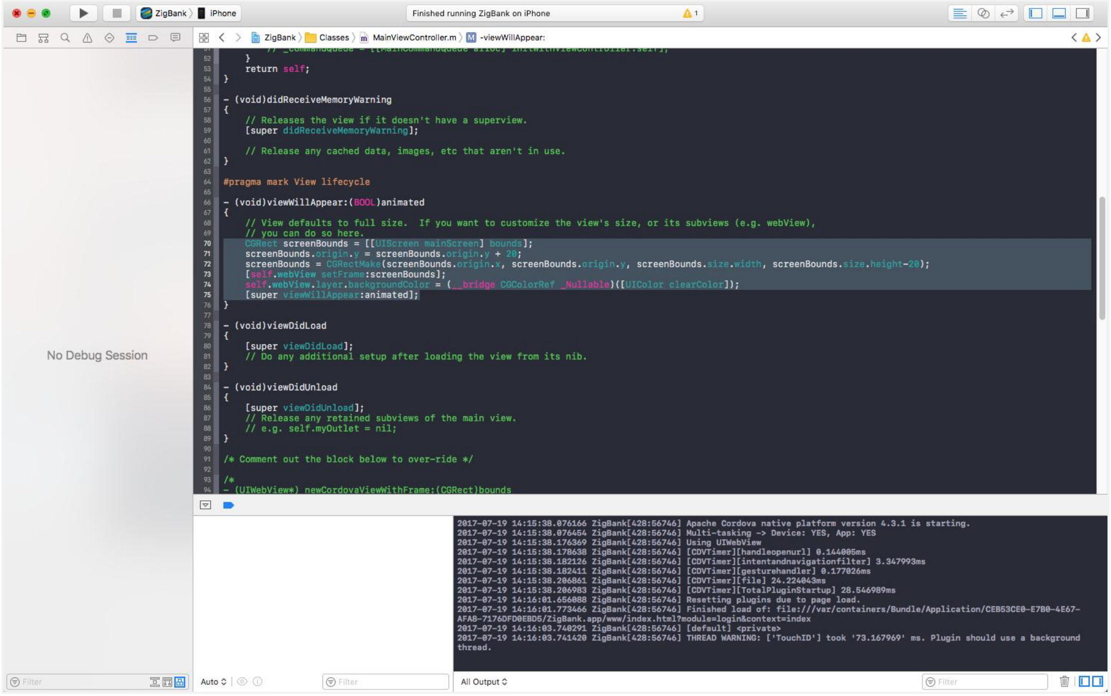
Drag to reorder frameworks

- Embed Frameworks (1 item)

12. In xcode, press **cmd+shift+o**, type **MainViewController.m**, press enter, Add following code to **viewWillAppear** method in **MainViewController.m** file :

    Replace -> **[super viewWillAppear:animated];** with following

```
CGRect screenBounds = [[UIScreen mainScreen] bounds];
screenBounds.origin.y = screenBounds.origin.y + 20;
screenBounds = CGRectMake(screenBounds.origin.x, screenBounds.origin.y,
screenBounds.size.width, screenBounds.size.height-20);
[self.webView setFrame:screenBounds];
self.webView.layer.backgroundColor = (__bridge CGColorRef
_Nullable)([UIColor clearColor]);
[super viewWillAppear:animated];
```

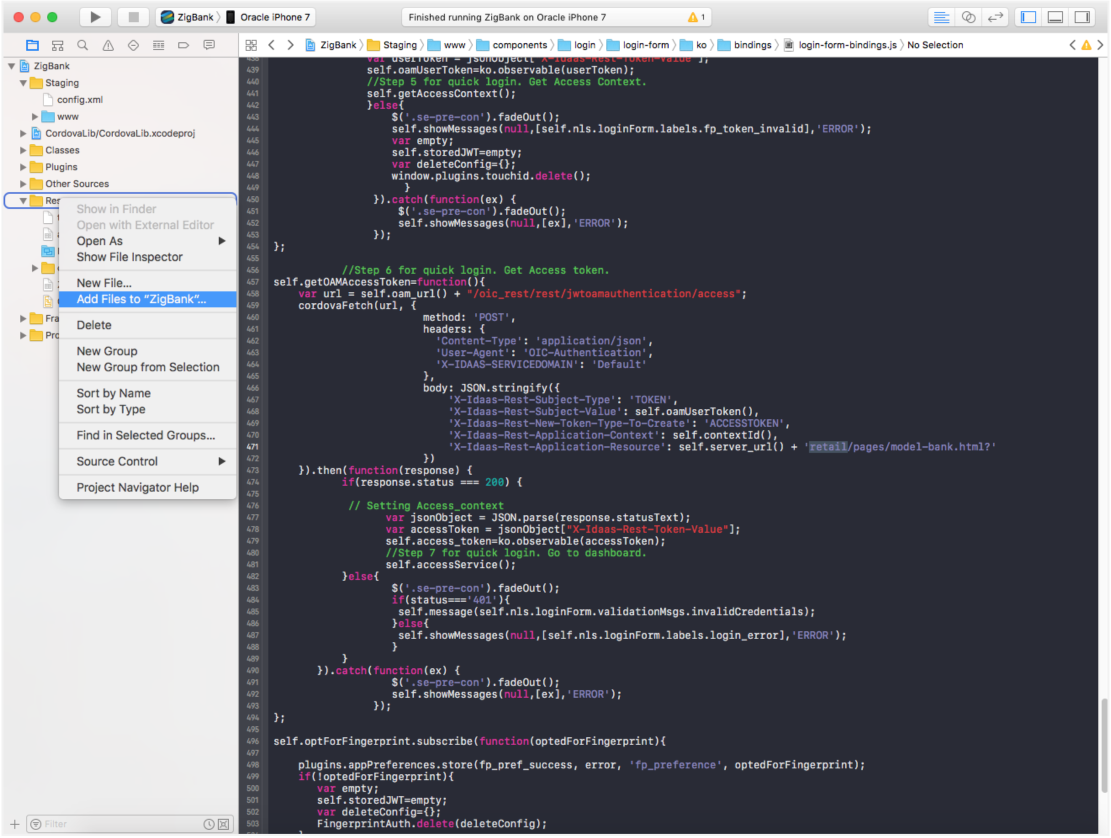


```
    }
    return self;
}

- (void)didReceiveMemoryWarning
{
    // Releases the view if it doesn't have a superview.
    [super didReceiveMemoryWarning];

    // Release any cached data, images, etc that aren't in use.
}

#pragma mark View lifecycle

- (void)viewWillAppear:(BOOL)animated
{
    // View defaults to full size.  If you want to customize the view's size, or its subviews (e.g. webView),
    // you can do so here.
    CGRect screenBounds = [[UIScreen mainScreen] bounds];
    screenBounds.origin.y = screenBounds.origin.y + 20;
    screenBounds = CGRectMake(screenBounds.origin.x, screenBounds.origin.y, screenBounds.size.width, screenBounds.size.height-20);
    [self.webView setFrame:screenBounds];
    self.webView.layer.backgroundColor = (__bridge CGColorRef _Nullable)([UIColor clearColor]);
    [super viewWillAppear:animated];
}

- (void)viewDidLoad
{
    [super viewDidLoad];
    // Do any additional setup after loading the view from its nib.
}

- (void)viewDidUnload
{
    [super viewDidUnload];
    // Release any retained subviews of the main view.
    // e.g. self.myOutlet = nil;
}

/* Comment out the block below to over-ride */

/*
- (UIWebView*) newCordovaViewWithFrame:(CGRect)bounds
```

```
2017-07-19 14:15:38.076166 ZigBank[428:56746] Apache Cordova native platform version 4.3.1 is starting.
2017-07-19 14:15:38.076454 ZigBank[428:56746] Multi-tasking -> Device: YES, App: YES
2017-07-19 14:15:38.176369 ZigBank[428:56746] Using UIWebView
2017-07-19 14:15:38.178638 ZigBank[428:56746] [CDVTimer][handleopenurl] 0.144005ms
2017-07-19 14:15:38.182126 ZigBank[428:56746] [CDVTimer][intentandnavigationfilter] 3.347993ms
2017-07-19 14:15:38.182411 ZigBank[428:56746] [CDVTimer][gesturehandler] 0.177026ms
2017-07-19 14:15:38.206861 ZigBank[428:56746] [CDVTimer][file] 24.224043ms
2017-07-19 14:15:38.206983 ZigBank[428:56746] [CDVTimer][TotalPluginStartup] 28.546989ms
2017-07-19 14:16:01.656088 ZigBank[428:56746] Resetting plugins due to page load.
2017-07-19 14:16:01.773466 ZigBank[428:56746] Finished load of: file:///var/containers/Bundle/Application/CEB53CE0-E7B0-4E67-
AFA8-7176DFD0EBD5/ZigBank.app/www/index.html?module=login&context=index
2017-07-19 14:16:03.740291 ZigBank[428:56746] [default] <private>
2017-07-19 14:16:03.741420 ZigBank[428:56746] THREAD WARNING: ['TouchID'] took '73.167969' ms. Plugin should use a background
thread.
```

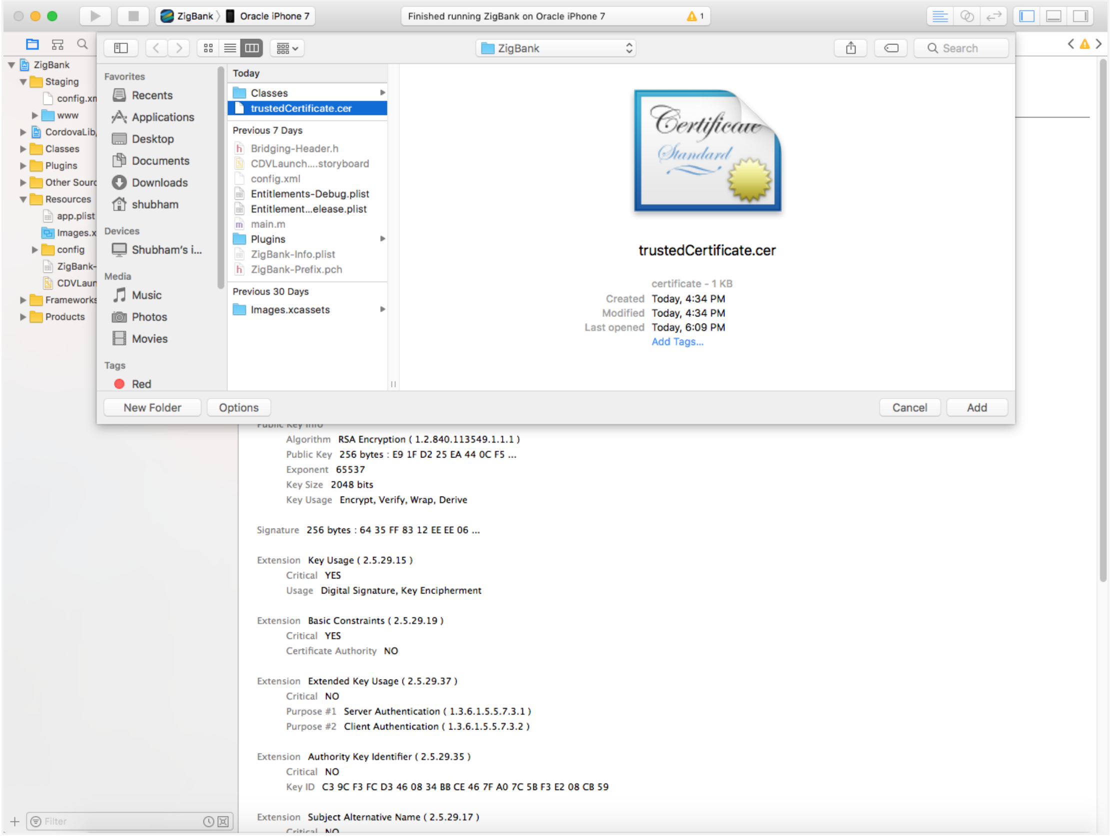
13. For https urls, get the https certificate of server, rename the certificate as **trusted Certificate.cer** and proceed as shown in the next step, else skip next step (in case of http server url)

14. Copy **trustedCertificate.cer** and paste it into **zigbank\platforms\ios\ZigBank** directory. Right click on **Resources -> Add Files to ZigBank**



```
               var userToken = jsonObject["X-Idaas-Rest-Token-Value"];
               self.oamUserToken=ko.observable(userToken);
               //Step 5 for quick login. Get Access Context.
               self.getAccessContext();
               }else{
                   $('.se-pre-con').fadeOut();
                   self.showMessages(null,[self.nls.loginForm.labels.fp_token_invalid],'ERROR');
                   var empty;
                   self.storedJWT=empty;
                   var deleteConfig={};
                   window.plugins.touchid.delete();
                     }
                }).catch(function(ex) {
                    $('.se-pre-con').fadeOut();
                    self.showMessages(null,[ex],'ERROR');
                });
};

           //Step 6 for quick login. Get Access token.
self.getOAMAccessToken=function(){
    var url = self.oam_url() + "/oic_rest/rest/jwtoamauthentication/access";
    cordovaFetch(url, {
                        method: 'POST',
                        headers: {
                          'Content-Type': 'application/json',
                          'User-Agent': 'OIC-Authentication',
                          'X-IDAAS-SERVICEDOMAIN': 'Default'
                        },
                        body: JSON.stringify({
                            'X-Idaas-Rest-Subject-Type': 'TOKEN',
                            'X-Idaas-Rest-Subject-Value': self.oamUserToken(),
                            'X-Idaas-Rest-New-Token-Type-To-Create': 'ACCESSTOKEN',
                            'X-Idaas-Rest-Application-Context': self.contextId(),
                            'X-Idaas-Rest-Application-Resource': self.server_url() + 'retail/pages/model-bank.html?'
                        })
    }).then(function(response) {
           if(response.status === 200) {

            // Setting Access_context
                  var jsonObject = JSON.parse(response.statusText);
                  var accessToken = jsonObject["X-Idaas-Rest-Token-Value"];
                  self.access_token=ko.observable(accessToken);
                  //Step 7 for quick login. Go to dashboard.
                  self.accessService();
           }else{
                   $('.se-pre-con').fadeOut();
                   if(status==='401'){
                    self.message(self.nls.loginForm.validationMsgs.invalidCredentials);
                   }else{
                    self.showMessages(null,[self.nls.loginForm.labels.login_error],'ERROR');
                   }
           }
       }).catch(function(ex) {
                   $('.se-pre-con').fadeOut();
                   self.showMessages(null,[ex],'ERROR');
                });
};

self.optForFingerprint.subscribe(function(optedForFingerprint){

    plugins.appPreferences.store(fp_pref_success, error, 'fp_preference', optedForFingerprint);
    if(!optedForFingerprint){
       var empty;
       self.storedJWT=empty;
       var deleteConfig={};
       FingerprintAuth.delete(deleteConfig);
```

15.In the Popup, select **trustedCertificate.cer** and click **Add**

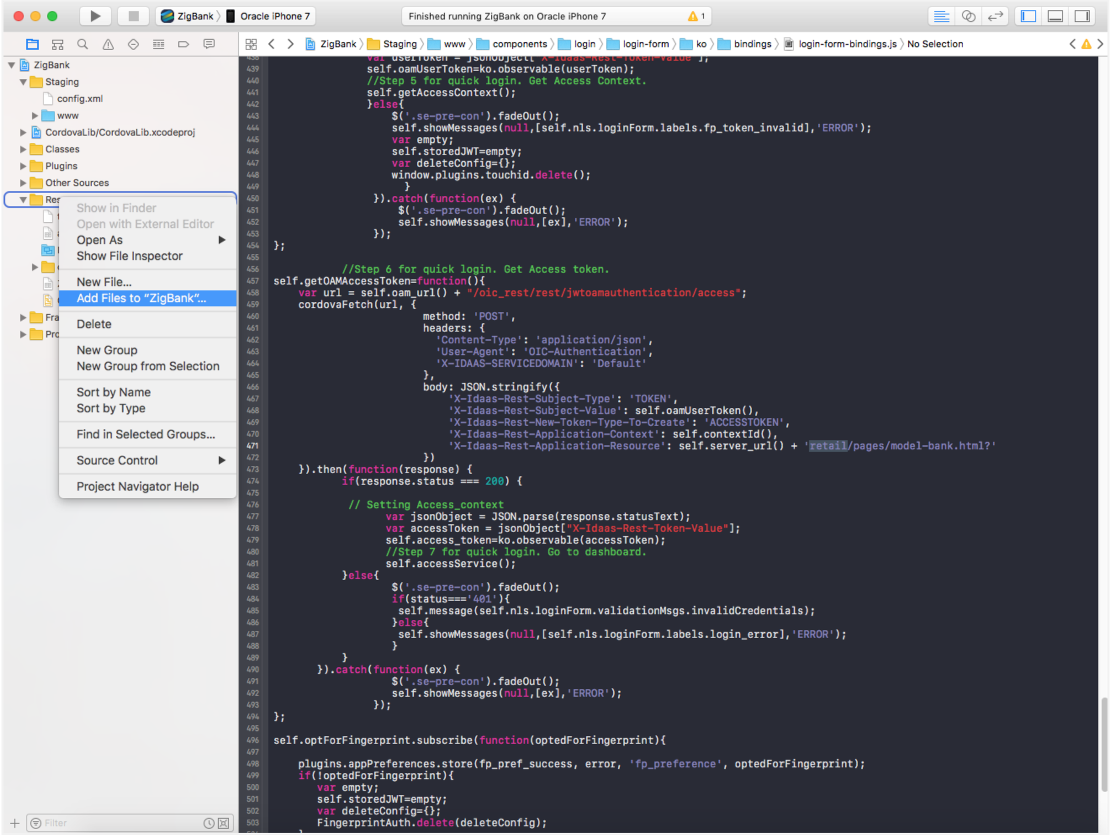


trustedCertificate.cer

certificate - 1 KB
Created Today, 4:34 PM
Modified Today, 4:34 PM
Last opened Today, 6:09 PM
Add Tags...

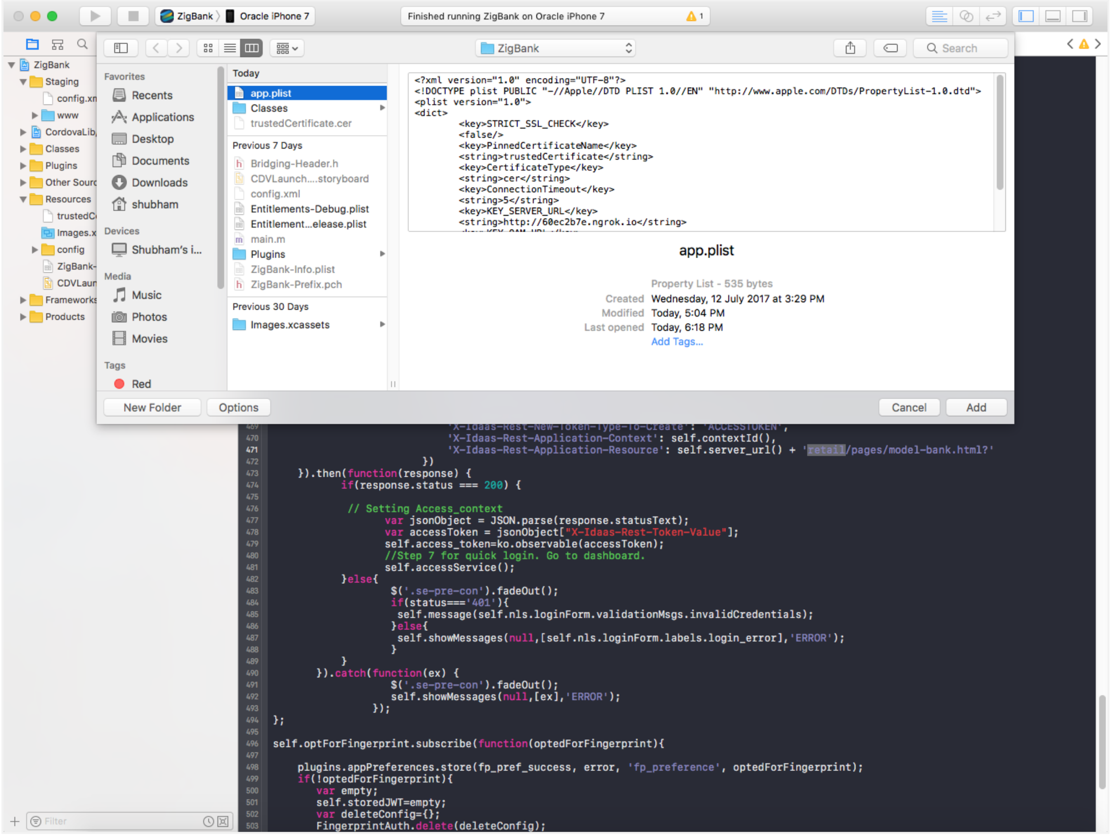
```
Public Key Info
        Algorithm  RSA Encryption ( 1.2.840.113549.1.1.1 )
        Public Key  256 bytes : E9 1F D2 25 EA 44 0C F5 ...
        Exponent  65537
        Key Size  2048 bits
        Key Usage  Encrypt, Verify, Wrap, Derive

Signature  256 bytes : 64 35 FF 83 12 EE EE 06 ...

Extension  Key Usage ( 2.5.29.15 )
        Critical  YES
        Usage  Digital Signature, Key Encipherment

Extension  Basic Constraints ( 2.5.29.19 )
        Critical  YES
        Certificate Authority  NO

Extension  Extended Key Usage ( 2.5.29.37 )
        Critical  NO
        Purpose #1  Server Authentication ( 1.3.6.1.5.5.7.3.1 )
        Purpose #2  Client Authentication ( 1.3.6.1.5.5.7.3.2 )

Extension  Authority Key Identifier ( 2.5.29.35 )
        Critical  NO
        Key ID  C3 9C F3 FC D3 46 08 34 BB CE 46 7F A0 7C 5B F3 E2 08 CB 59

Extension  Subject Alternative Name ( 2.5.29.17 )
        Critical  NO
```

16. Using finder, Copy **app.plist** from **OBDX_Installer/installables/mobile/service/ios** and paste it into **zigbank\platforms\ios\ZigBank** directory. Go back to xcode, in navigation pane, Right click on **Resources -> Add Files to ZigBank**



```
                var userToken = jsonObject["X-Idaas-Rest-Token-Value"];
                self.oamUserToken=ko.observable(userToken);
                //Step 5 for quick login. Get Access Context.
                self.getAccessContext();
                }else{
                    $('.se-pre-con').fadeOut();
                    self.showMessages(null,[self.nls.loginForm.labels.fp_token_invalid],'ERROR');
                    var empty;
                    self.storedJWT=empty;
                    var deleteConfig={};
                    window.plugins.touchid.delete();
                      }
                 }).catch(function(ex) {
                     $('.se-pre-con').fadeOut();
                     self.showMessages(null,[ex],'ERROR');
                 });
};

            //Step 6 for quick login. Get Access token.
self.getOAMAccessToken=function(){
    var url = self.oam_url() + "/oic_rest/rest/jwtoamauthentication/access";
    cordovaFetch(url, {
                    method: 'POST',
                    headers: {
                      'Content-Type': 'application/json',
                      'User-Agent': 'OIC-Authentication',
                      'X-IDAAS-SERVICEDOMAIN': 'Default'
                    },
                    body: JSON.stringify({
                        'X-Idaas-Rest-Subject-Type': 'TOKEN',
                        'X-Idaas-Rest-Subject-Value': self.oamUserToken(),
                        'X-Idaas-Rest-New-Token-Type-To-Create': 'ACCESSTOKEN',
                        'X-Idaas-Rest-Application-Context': self.contextId(),
                        'X-Idaas-Rest-Application-Resource': self.server_url() + 'retail/pages/model-bank.html?'
                    })
    }).then(function(response) {
            if(response.status === 200) {

             // Setting Access_context
                  var jsonObject = JSON.parse(response.statusText);
                  var accessToken = jsonObject["X-Idaas-Rest-Token-Value"];
                  self.access_token=ko.observable(accessToken);
                  //Step 7 for quick login. Go to dashboard.
                  self.accessService();
            }else{
                    $('.se-pre-con').fadeOut();
                    if(status==='401'){
                     self.message(self.nls.loginForm.validationMsgs.invalidCredentials);
                    }else{
                     self.showMessages(null,[self.nls.loginForm.labels.login_error],'ERROR');
                    }
            }
       }).catch(function(ex) {
                    $('.se-pre-con').fadeOut();
                    self.showMessages(null,[ex],'ERROR');
                 });
};

self.optForFingerprint.subscribe(function(optedForFingerprint){

    plugins.appPreferences.store(fp_pref_success, error, 'fp_preference', optedForFingerprint);
    if(!optedForFingerprint){
       var empty;
       self.storedJWT=empty;
       var deleteConfig={};
       FingerprintAuth.delete(deleteConfig);
```

17. In the Popup, select navigate to **zigbank\platforms\ios\ZigBank** directory and select **app.plist** and click **Add**.

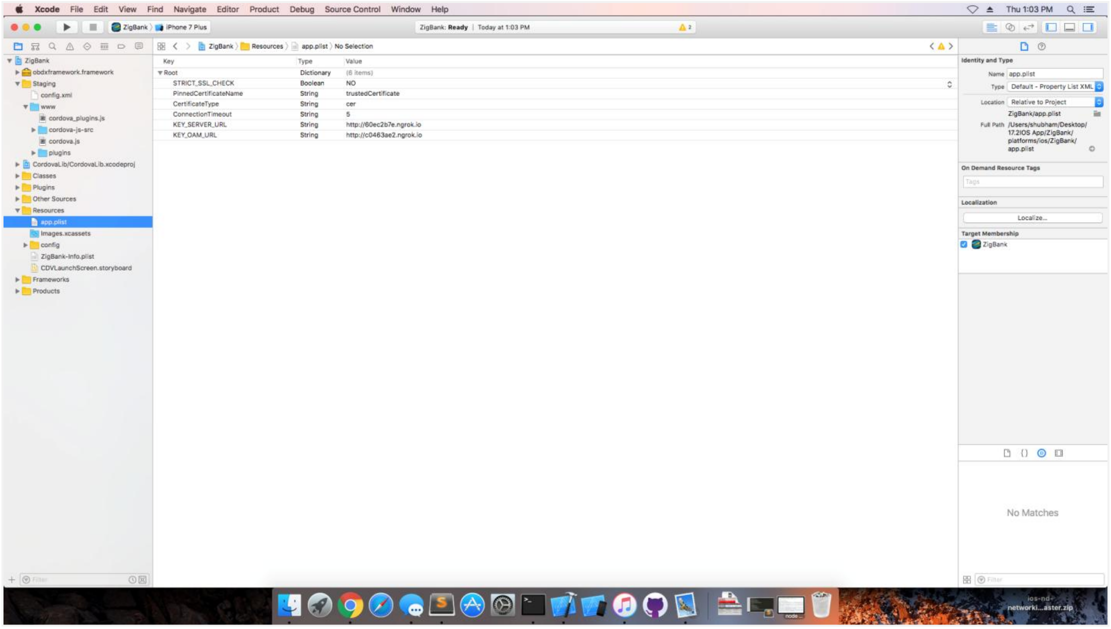


```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
        <key>STRICT_SSL_CHECK</key>
        <false/>
        <key>PinnedCertificateName</key>
        <string>trustedCertificate</string>
        <key>CertificateType</key>
        <string>cer</string>
        <key>ConnectionTimeout</key>
        <string>5</string>
        <key>KEY_SERVER_URL</key>
        <string>http://60ec2b7e.ngrok.io</string>
```

app.plist

Property List - 535 bytes
Created Wednesday, 12 July 2017 at 3:29 PM
Modified Today, 5:04 PM
Last opened Today, 6:18 PM
Add Tags...

```
                        'X-Idaas-Rest-New-Token-Type-To-Create': 'ACCESSTOKEN',
                        'X-Idaas-Rest-Application-Context': self.contextId(),
                        'X-Idaas-Rest-Application-Resource': self.server_url() + 'retail/pages/model-bank.html?'
                   })
    }).then(function(response) {
           if(response.status === 200) {

            // Setting Access_context
                 var jsonObject = JSON.parse(response.statusText);
                 var accessToken = jsonObject["X-Idaas-Rest-Token-Value"];
                 self.access_token=ko.observable(accessToken);
                 //Step 7 for quick login. Go to dashboard.
                 self.accessService();
           }else{
                 $('.se-pre-con').fadeOut();
                 if(status==='401'){
                  self.message(self.nls.loginForm.validationMsgs.invalidCredentials);
                 }else{
                  self.showMessages(null,[self.nls.loginForm.labels.login_error],'ERROR');
                 }
           }
       }).catch(function(ex) {
                 $('.se-pre-con').fadeOut();
                 self.showMessages(null,[ex],'ERROR');
             });
};

self.optForFingerprint.subscribe(function(optedForFingerprint){

    plugins.appPreferences.store(fp_pref_success, error, 'fp_preference', optedForFingerprint);
    if(!optedForFingerprint){
       var empty;
       self.storedJWT=empty;
       var deleteConfig={};
       FingerprintAuth.delete(deleteConfig);
```



Key	Type	Value
▼ Root	Dictionary	(6 items)
STRICT_SSL_CHECK	Boolean	NO
PinnedCertificateName	String	trustedCertificate
CertificateType	String	cer
ConnectionTimeout	String	5
KEY_SERVER_URL	String	http://60ec2b7e.ngrok.io
KEY_OAM_URL	String	http://c0463ae2.ngrok.io

Identity and Type

Name: app.plist

Type: Default - Property List XML

Location: Relative to Project

ZigBank/app.plist

Full Path: /Users/shubham/Desktop/17.2IOS App/ZigBank/platforms/ios/ZigBank/app.plist

On Demand Resource Tags

Localization

Localize...

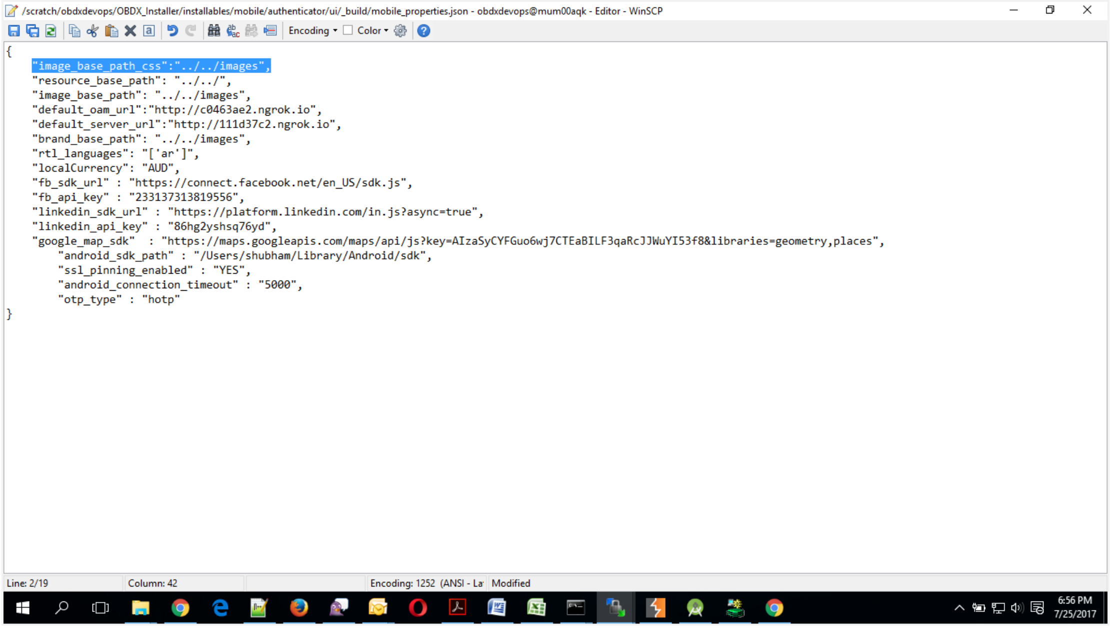
Target Membership

☑ ZigBank

18. Build the UI from **OBDX_Installer/installables/ui/channel/_build** folder by running following commands on command line/terminal

    a. Add **"image_base_path_css":"../../images"**, to **OBDX_Installer/installables/ui/channel/_build/ mobile_properties.json**

Note: Please notice the comma at the end.



/scratch/obdxdevops/OBDX_Installer/installables/mobile/authenticator/ui/_build/mobile_properties.json - obdxdevops@mum00aqk - Editor - WinSCP

```
{
    "image_base_path_css":"../../images",
    "resource_base_path": "../../",
    "image_base_path": "../../images",
    "default_oam_url":"http://c0463ae2.ngrok.io",
    "default_server_url":"http://111d37c2.ngrok.io",
    "brand_base_path": "../../images",
    "rtl_languages": "['ar']",
    "localCurrency": "AUD",
    "fb_sdk_url" : "https://connect.facebook.net/en_US/sdk.js",
    "fb_api_key" : "233137313819556",
    "linkedin_sdk_url" : "https://platform.linkedin.com/in.js?async=true",
    "linkedin_api_key" : "86hg2yshsq76yd",
    "google_map_sdk"  : "https://maps.googleapis.com/maps/api/js?key=AIzaSyCYFGuo6wj7CTEaBILF3qaRcJJWuYI53f8&libraries=geometry,places",
        "android_sdk_path" : "/Users/shubham/Library/Android/sdk",
        "ssl_pinning_enabled" : "YES",
        "android_connection_timeout" : "5000",
        "otp_type" : "hotp"
}
```

Line: 2/19 Column: 42 Encoding: 1252 (ANSI - La Modified

    b. For OAM based Authentication

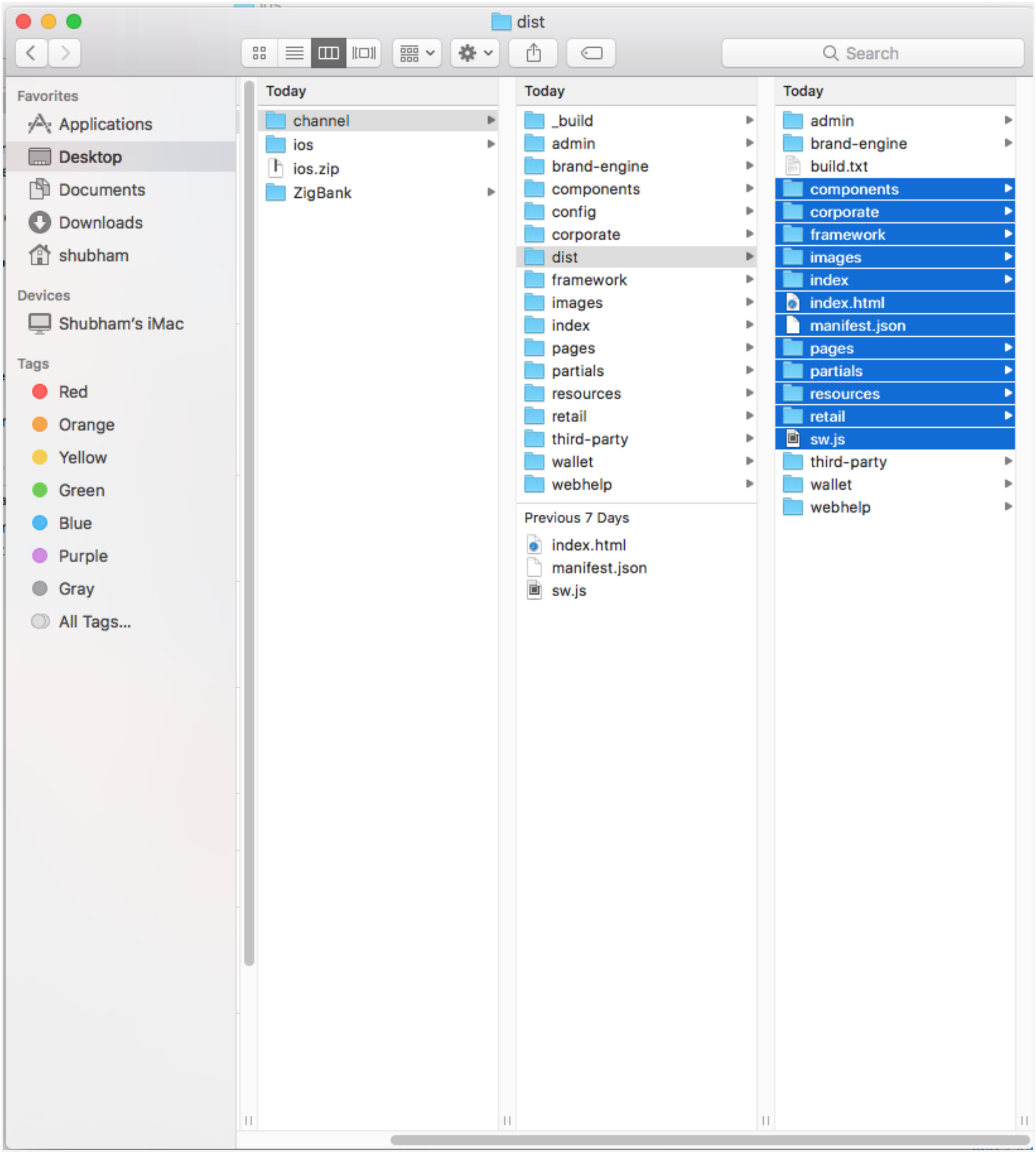
```
sudo npm install -g grunt-cli
sudo npm install
node render-requirejs/render-requirejs.js
grunt iosbuild
```

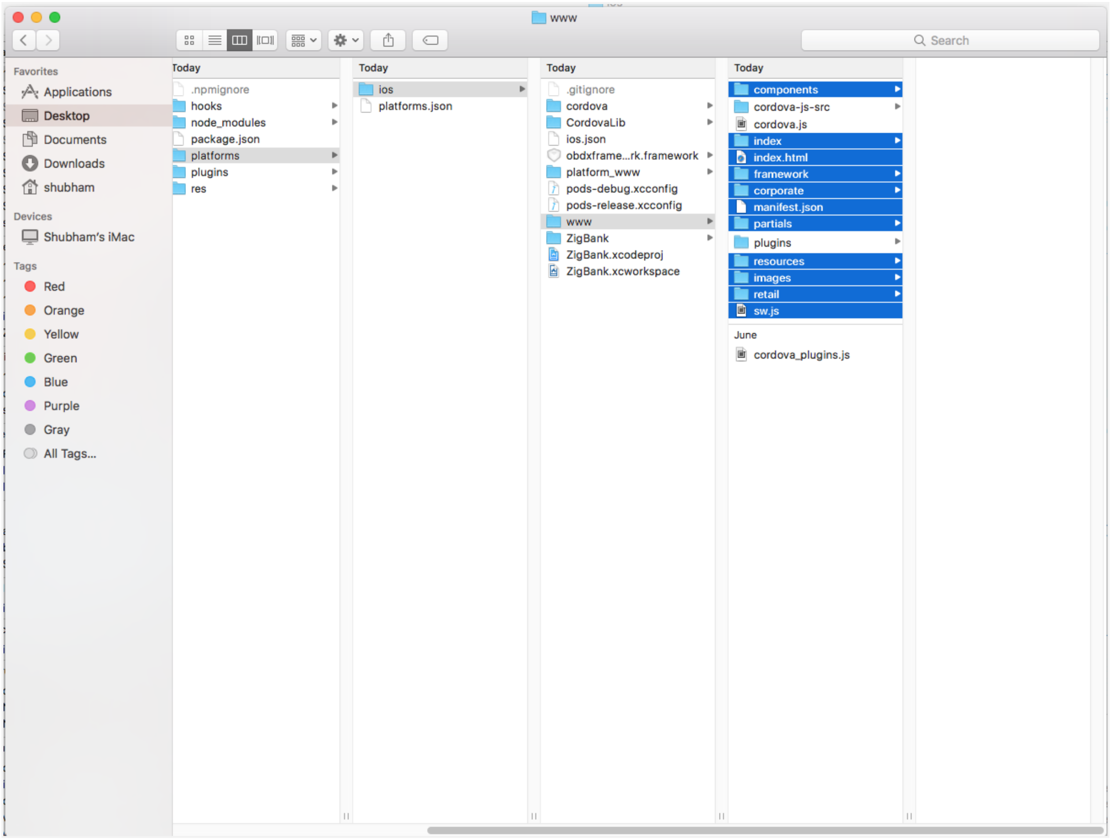
    c. For Non-OAM based Authentication

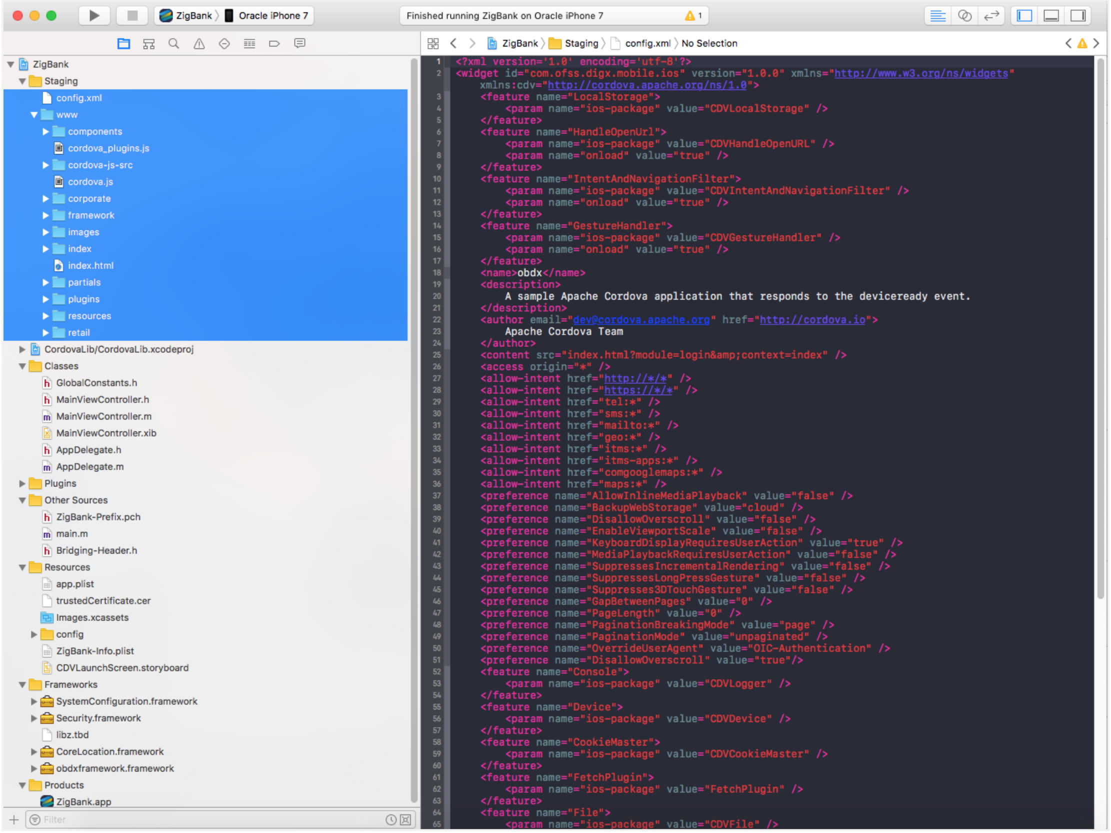
```
sudo npm install -g grunt-cli
sudo npm install
node render-requirejs/render-requirejs.js
grunt iosbuild-nonoam
```

19. Using finder, Copy the ui generated in **OBDX_Installer/installables/ui/channel/dist { components, corporate, framework, images, index, partials, resources, retail, index.html, manifest.json, sw.js }** folder to **zigbank/platforms/ios/www**

    Files should look like this in **xcode**


dist
Search
Favorites
Applications
Desktop
Documents
Downloads
shubham
Devices
Shubham's iMac
Tags
Red
Orange
Yellow
Green
Blue
Purple
Gray
All Tags...
Today
channel
ios
ios.zip
ZigBank
Today
_build
admin
brand-engine
components
config
corporate
dist
framework
images
index
pages
partials
resources
retail
third-party
wallet
webhelp
Previous 7 Days
index.html
manifest.json
sw.js
Today
admin
brand-engine
build.txt
components
corporate
framework
images
index
index.html
manifest.json
pages
partials
resources
retail
sw.js
third-party
wallet
webhelp



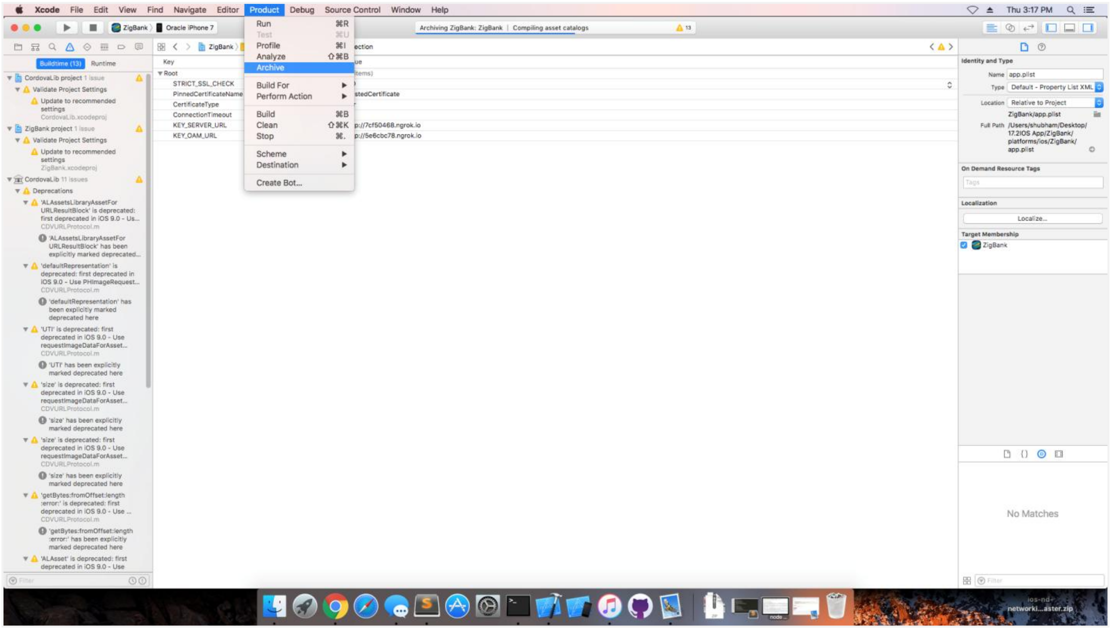


```xml
<?xml version='1.0' encoding='utf-8'?>
<widget id="com.ofss.digx.mobile.ios" version="1.0.0" xmlns="http://www.w3.org/ns/widgets"
    xmlns:cdv="http://cordova.apache.org/ns/1.0">
    <feature name="LocalStorage">
        <param name="ios-package" value="CDVLocalStorage" />
    </feature>
    <feature name="HandleOpenUrl">
        <param name="ios-package" value="CDVHandleOpenURL" />
        <param name="onload" value="true" />
    </feature>
    <feature name="IntentAndNavigationFilter">
        <param name="ios-package" value="CDVIntentAndNavigationFilter" />
        <param name="onload" value="true" />
    </feature>
    <feature name="GestureHandler">
        <param name="ios-package" value="CDVGestureHandler" />
        <param name="onload" value="true" />
    </feature>
    <name>obdx</name>
    <description>
        A sample Apache Cordova application that responds to the deviceready event.
    </description>
    <author email="dev@cordova.apache.org" href="http://cordova.io">
        Apache Cordova Team
    </author>
    <content src="index.html?module=login&amp;context=index" />
    <access origin="*" />
    <allow-intent href="http://*/*" />
    <allow-intent href="https://*/*" />
    <allow-intent href="tel:*" />
    <allow-intent href="sms:*" />
    <allow-intent href="mailto:*" />
    <allow-intent href="geo:*" />
    <allow-intent href="itms:*" />
    <allow-intent href="itms-apps:*" />
    <allow-intent href="comgooglemaps:*" />
    <allow-intent href="maps:*" />
    <preference name="AllowInlineMediaPlayback" value="false" />
    <preference name="BackupWebStorage" value="cloud" />
    <preference name="DisallowOverscroll" value="false" />
    <preference name="EnableViewportScale" value="false" />
    <preference name="KeyboardDisplayRequiresUserAction" value="true" />
    <preference name="MediaPlaybackRequiresUserAction" value="false" />
    <preference name="SuppressesIncrementalRendering" value="false" />
    <preference name="SuppressesLongPressGesture" value="false" />
    <preference name="Suppresses3DTouchGesture" value="false" />
    <preference name="GapBetweenPages" value="0" />
    <preference name="PageLength" value="0" />
    <preference name="PaginationBreakingMode" value="page" />
    <preference name="PaginationMode" value="unpaginated" />
    <preference name="OverrideUserAgent" value="OIC-Authentication" />
    <preference name="DisallowOverscroll" value="true"/>
    <feature name="Console">
        <param name="ios-package" value="CDVLogger" />
    </feature>
    <feature name="Device">
        <param name="ios-package" value="CDVDevice" />
    </feature>
    <feature name="CookieMaster">
        <param name="ios-package" value="CDVCookieMaster" />
    </feature>
    <feature name="FetchPlugin">
        <param name="ios-package" value="FetchPlugin" />
    </feature>
    <feature name="File">
        <param name="ios-package" value="CDVFile" />
```

20. The above app points to our servers, so one has to change urls in Resources/app.plist in xcode. As well as replace trustedCertificate.cer with your server certificate for https URLs.
21. Select your device and build the app.

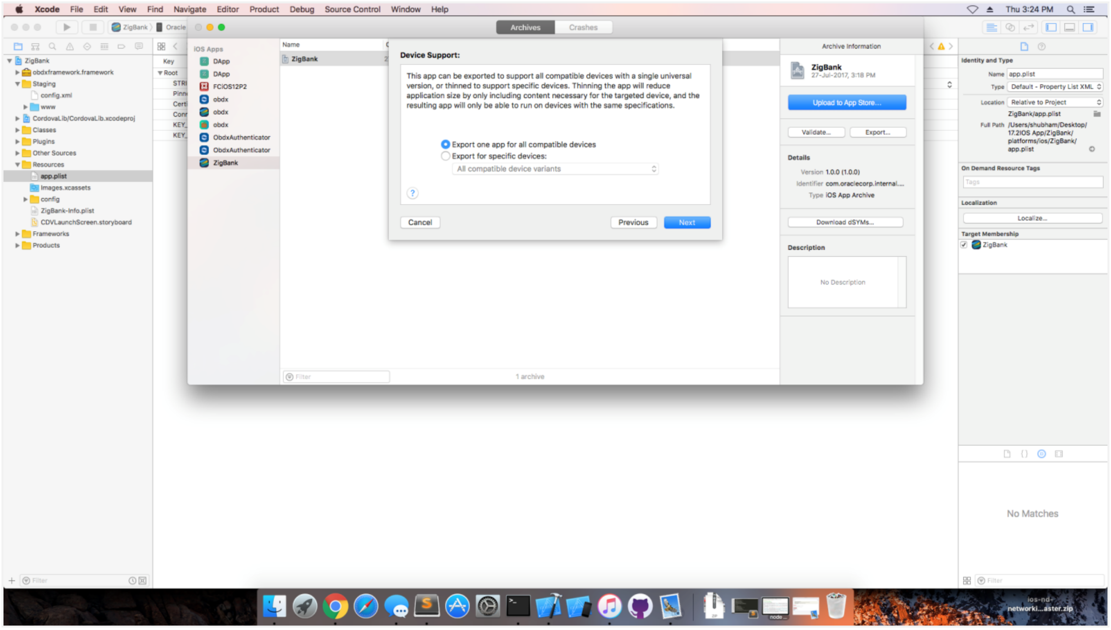
4. Archive and Export :

a. In the Menu bar click on **Product -> Archive**


Xcode File Edit View Find Navigate Editor Product Debug Source Control Window Help
Run ⌘R
Test ⌘U
Profile ⌘I
Analyze ⇧⌘B
Archive
Build For
Perform Action
Build ⌘B
Clean ⇧⌘K
Stop ⌘.
Scheme
Destination
Create Bot...
Archiving ZigBank: ZigBank | Compiling asset catalogs
No Matches

b. After archiving has successfully completed. Following popup will appear

c. Click on Export in the right pane of the popup -> select **Export Method -> Choose Provisioning Profile ->** select **Export one app for all Compatible Devices -> Next -> Next and generate the ipa**.



Device Support:

This app can be exported to support all compatible devices with a single universal version, or thinned to support specific devices. Thinning the app will reduce application size by only including content necessary for the targeted device, and the resulting app will only be able to run on devices with the same specifications.

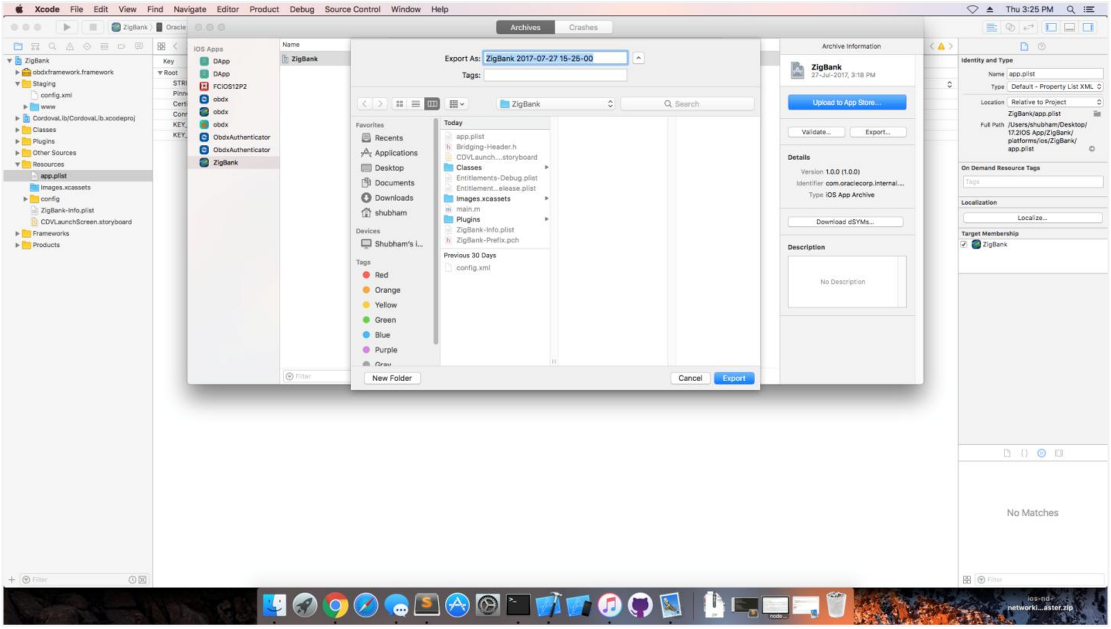
● Export one app for all compatible devices
○ Export for specific devices:
All compatible device variants

ZigBank
27-Jul-2017, 3:18 PM

Details
Version 1.0.0 (1.0.0)
Identifier com.oraclecorp.internal....
Type iOS App Archive

Description
No Description

Archive and Export :



Export As: ZigBank 2017-07-27 15-25-00

Tags:

ZigBank
27-Jul-2017, 3:18 PM

Details

Version 1.0.0 (1.0.0)
Identifier com.oraclecorp.internal....
Type iOS App Archive

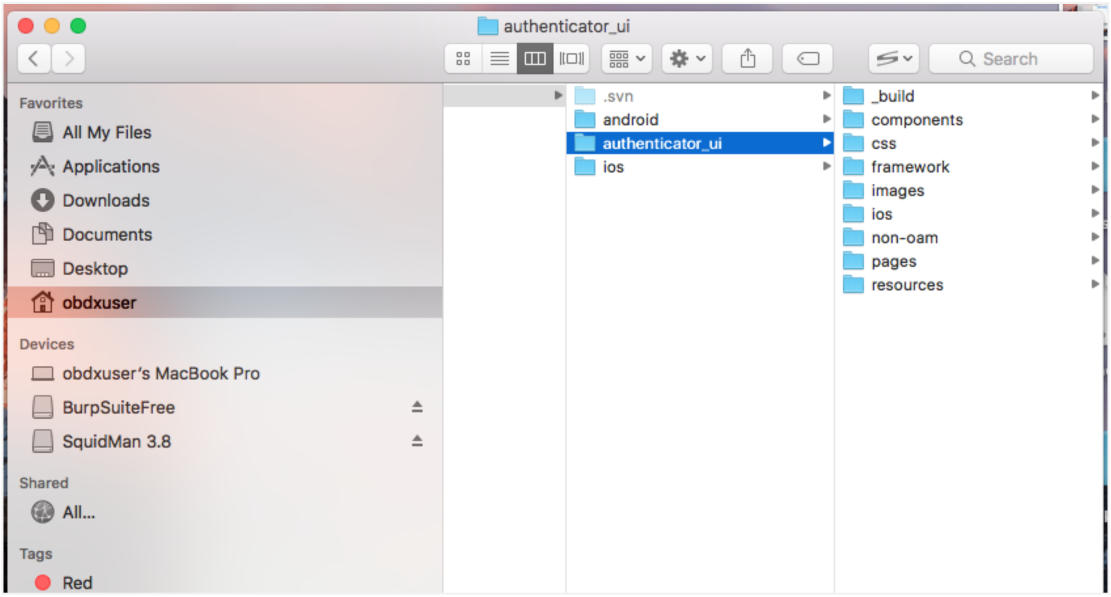
Description

No Description

5. OBDX Authenticator Application

5.1 Building Authenticator UI

1. Extract OBDX_Installer.zip. It contains **OBDX_Installer/installables/mobile/authenticator/ui** folder. The folder structure is as shown :



2. Open the **OBDX_Installer/installables/mobile/authenticator/ui /ios** folder, copy the contents and paste and replace @path: **OBDX_Installer/installables/mobile/authenticator/ui /components/modules**
3. Build UI based on selected Authentication mechanism.

(a) OAM based Authentication

1. Open Terminal at *"_build"* level.
2. Run following command :

```
sudo npm install -g grunt-cli

sudo npm install

node render-requirejs/render-requirejs.js

grunt authenticator --verbose
```

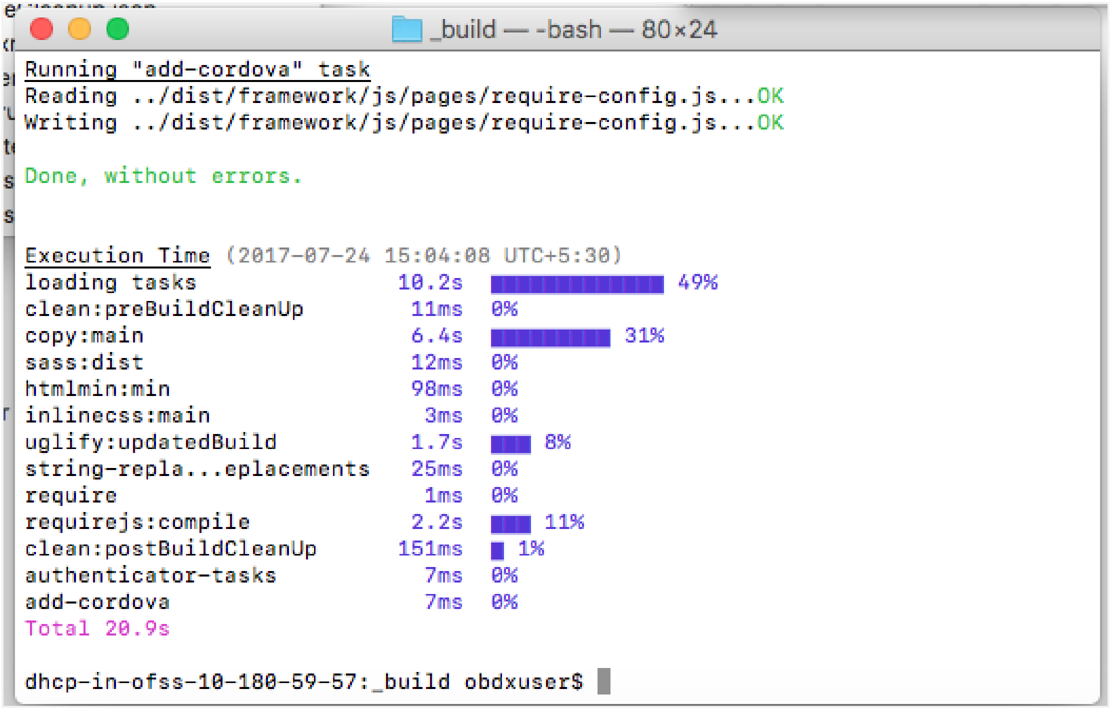
3. After running above commands and getting result as "*Done, without errors.*" a new folder will be created at "_build" level with name as "dist".

(b) NON-OAM Based Authentication

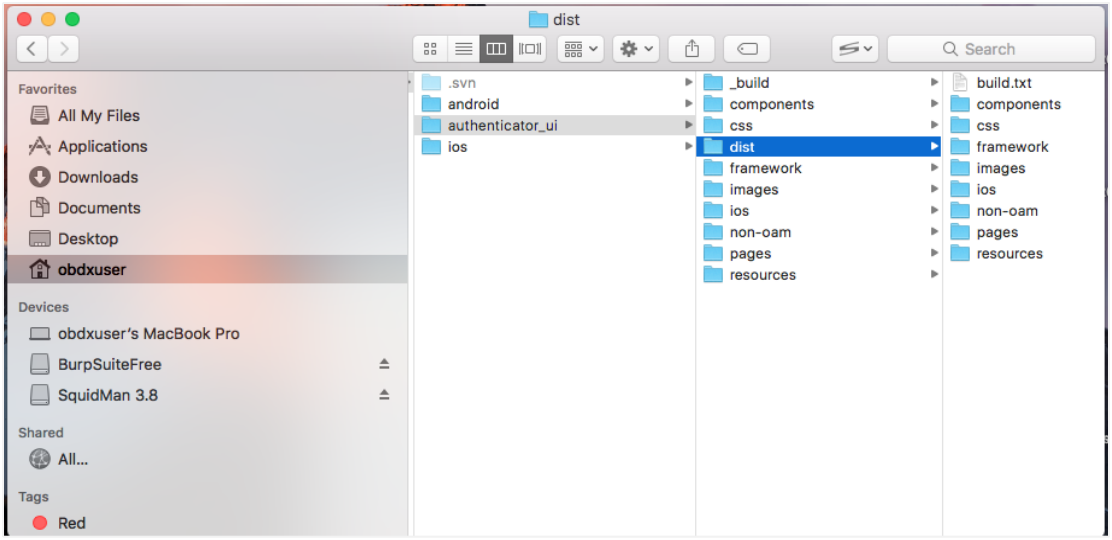
1. Copy “*non-oam/ios/login”* folder and paste it at location “*components/modules”* location. This will replace existing “*login*” folder.
2. Open Terminal at *“_build”* level.
3. Run following command :

```
Sudo npm install -g grunt-cli

npm install

node render-requirejs/render-requirejs.js

grunt authenticator --verbose
```

4. After running above commands and getting result as “*Done, without errors.*” a new folder will be created at “_build” folder level with name as “dist”.



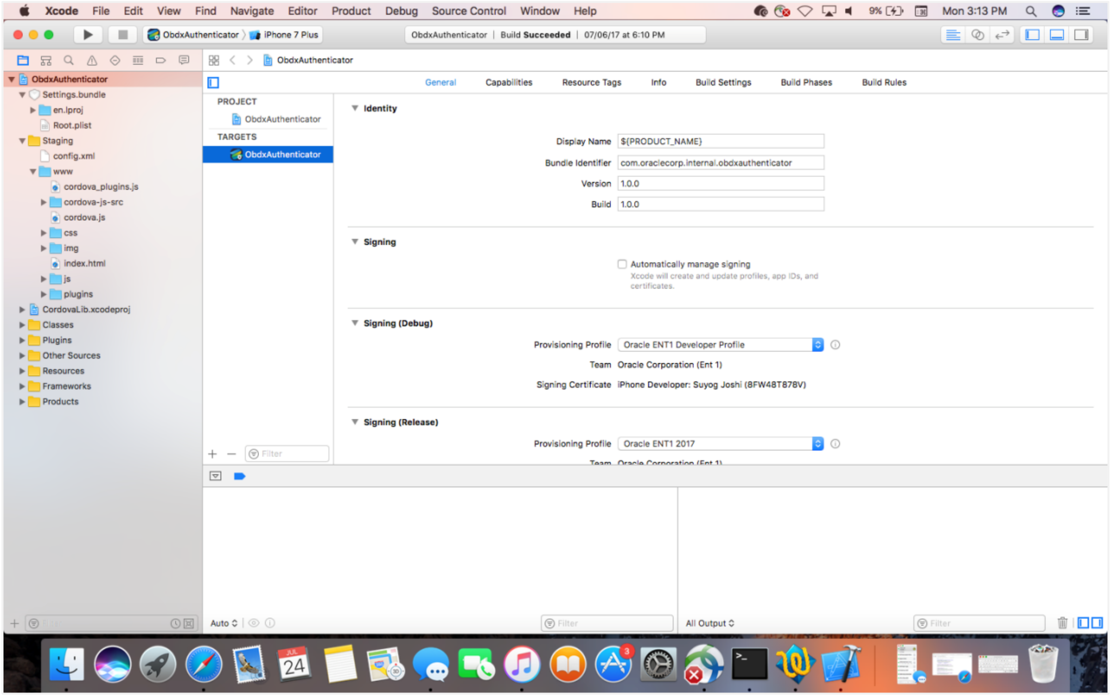
```
Running "add-cordova" task
Reading ../dist/framework/js/pages/require-config.js...OK
Writing ../dist/framework/js/pages/require-config.js...OK

Done, without errors.


Execution Time (2017-07-24 15:04:08 UTC+5:30)
loading tasks               10.2s  █████████████ 49%
clean:preBuildCleanUp        11ms  0%
copy:main                    6.4s  █████████ 31%
sass:dist                    12ms  0%
htmlmin:min                  98ms  0%
inlinecss:main                3ms  0%
uglify:updatedBuild          1.7s  ███ 8%
string-repla...eplacements   25ms  0%
require                       1ms  0%
requirejs:compile            2.2s  ███ 11%
clean:postBuildCleanUp      151ms  █ 1%
authenticator-tasks           7ms  0%
add-cordova                   7ms  0%
Total 20.9s

dhcp-in-ofss-10-180-59-57:_build obdxuser$ █
```



dist
Search
Favorites
All My Files
Applications
Downloads
Documents
Desktop
obdxuser
Devices
obdxuser's MacBook Pro
BurpSuiteFree
SquidMan 3.8
Shared
All...
Tags
Red
.svn
android
authenticator_ui
ios
_build
components
css
dist
framework
images
ios
non-oam
pages
resources
build.txt
components
css
framework
images
ios
non-oam
pages
resources

5.2 Authenticator Application Workspace Setup

1. Extract OBDX_Installer.zip. Go to "*ios/*Obdx*authenticator"* folder at the same level as that of "*ui*".
2. Double click on "*ObdxAuthenticator.xcodeproj*" to open the project in Xcode.



ObdxAuthenticator | Build **Succeeded** | 07/06/17 at 6:10 PM

Identity

Display Name: ${PRODUCT_NAME}

Bundle Identifier: com.oraclecorp.internal.obdxauthenticator

Version: 1.0.0

Build: 1.0.0

Signing

□ Automatically manage signing

Xcode will create and update profiles, app IDs, and certificates.

Signing (Debug)

Provisioning Profile: Oracle ENT1 Developer Profile

Team: Oracle Corporation (Ent 1)

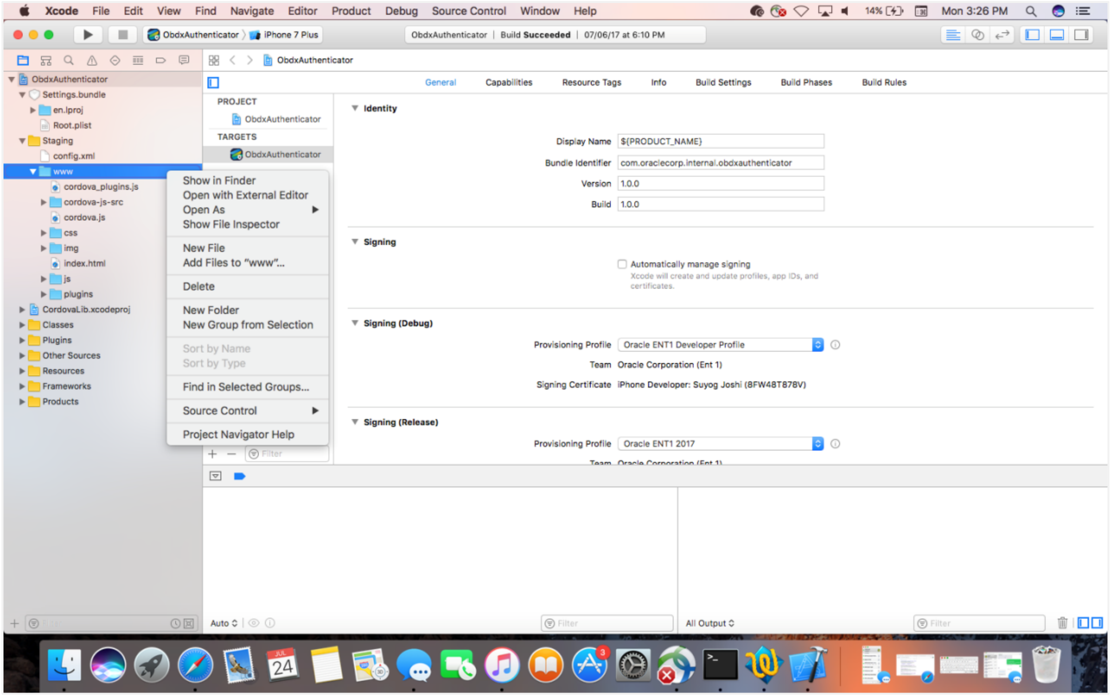
Signing Certificate: iPhone Developer: Suyog Joshi (8FW48T878V)

Signing (Release)

Provisioning Profile: Oracle ENT1 2017

Team: Oracle Corporation (Ent 1)

3. Open the "*www*" folder in the finder and paste here the following generated UI files from "*ui/dist*" folder :
   - components
   - css
   - framework
   - images
   - pages
   - resources



Identity

Display Name ${PRODUCT_NAME}

Bundle Identifier com.oraclecorp.internal.obdxauthenticator

Version 1.0.0

Build 1.0.0

Signing

□ Automatically manage signing

Xcode will create and update profiles, app IDs, and certificates.

Signing (Debug)

Provisioning Profile Oracle ENT1 Developer Profile

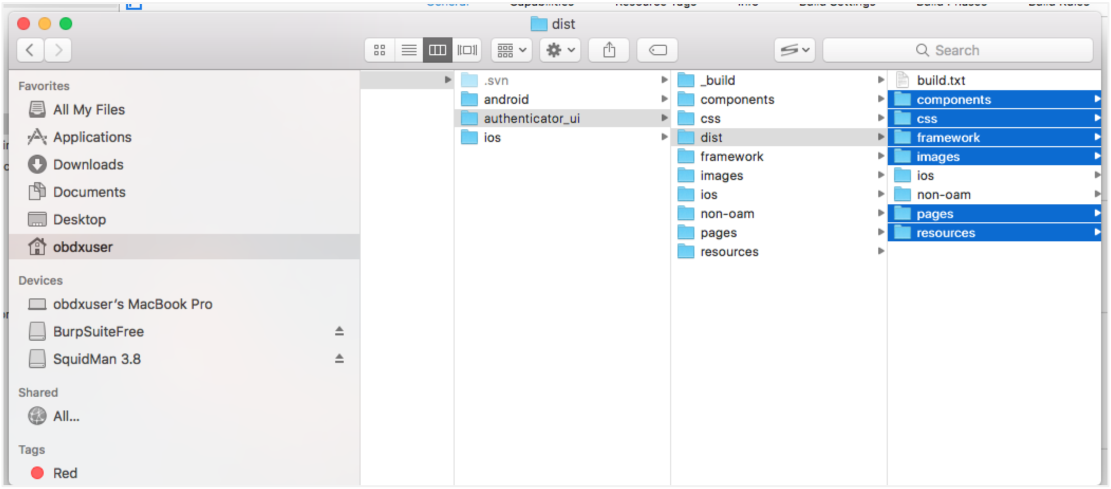
Team Oracle Corporation (Ent 1)

Signing Certificate iPhone Developer: Suyog Joshi (BFW48T878V)

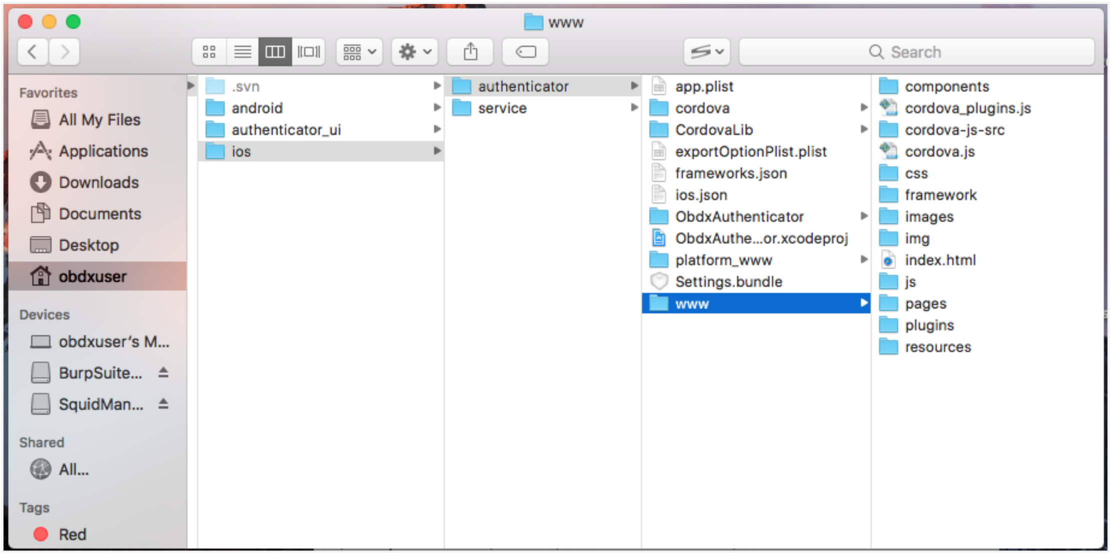
Signing (Release)

Provisioning Profile Oracle ENT1 2017

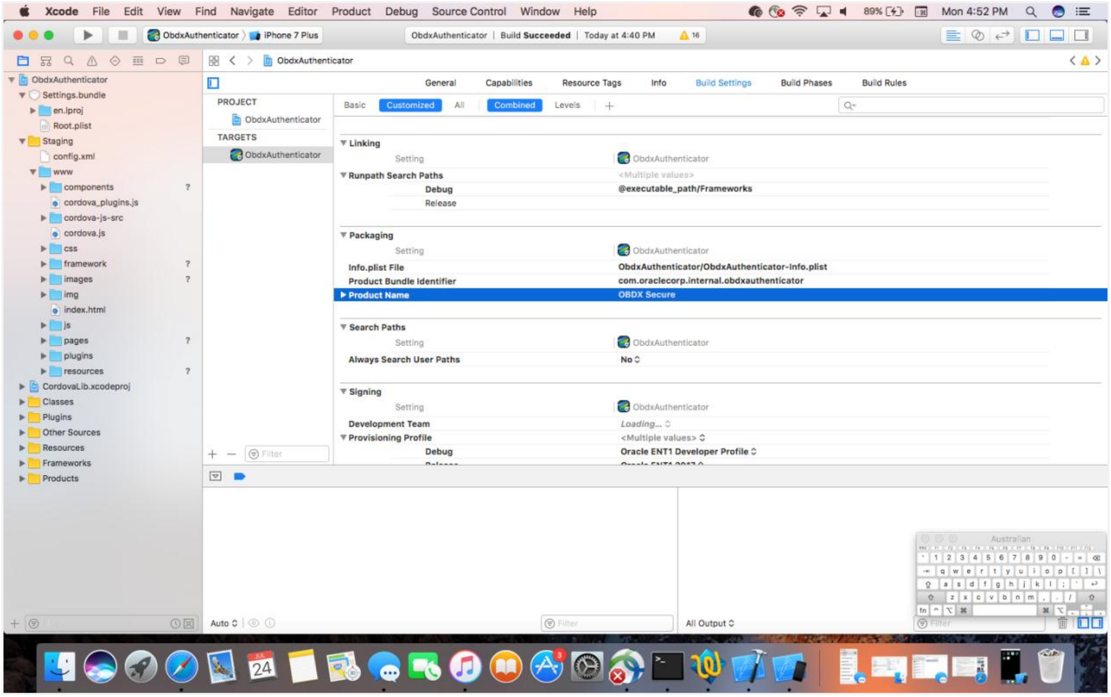
Team Oracle Corporation (Ent 1)



Finally the *www* folder must look like:



4. Now, again go to the Xcode and run the project either in Simulator or device.
5. To change the OAM/Server url, go to the *Classes -> Util -> Constants -> GlobalConstants.h*
6. To update Application name, Click on the project in Xcode, then under *Targets -> Build Settings -> Packaging -> Product Name* and update the Application Name to the desired one.
   To change the package name, Change the Bundle Identifier.



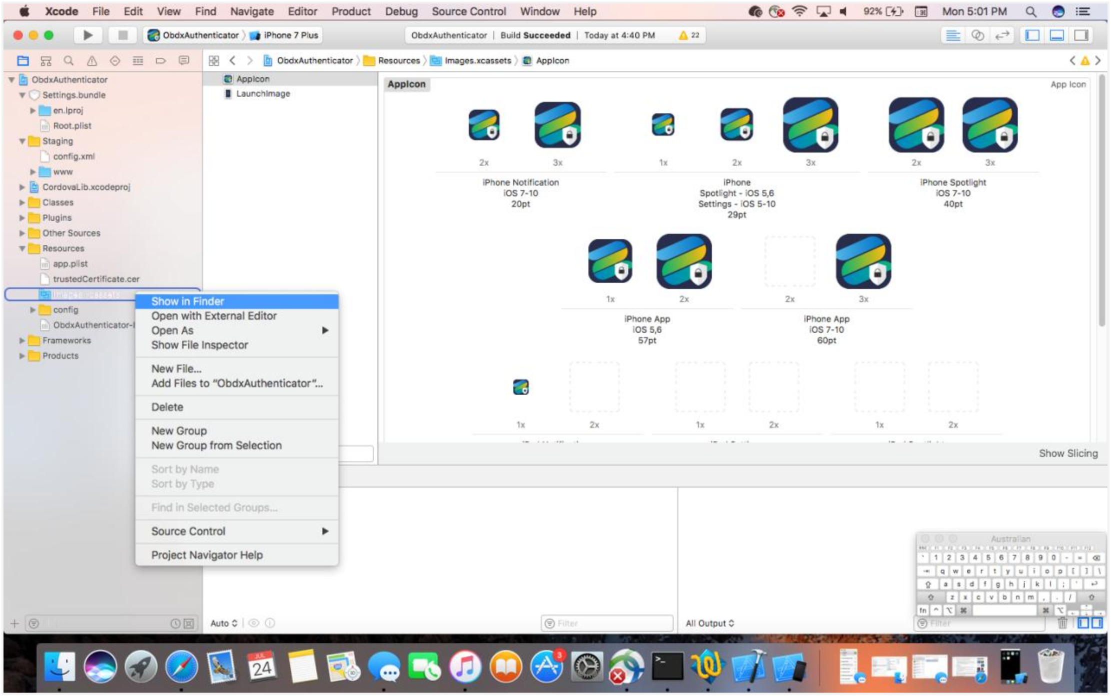
Linking
- Runpath Search Paths: <Multiple values>
  - Debug: @executable_path/Frameworks
  - Release

Packaging
- Info.plist File: ObdxAuthenticator/ObdxAuthenticator-Info.plist
- Product Bundle Identifier: com.oraclecorp.internal.obdxauthenticator
- Product Name: OBDX Secure

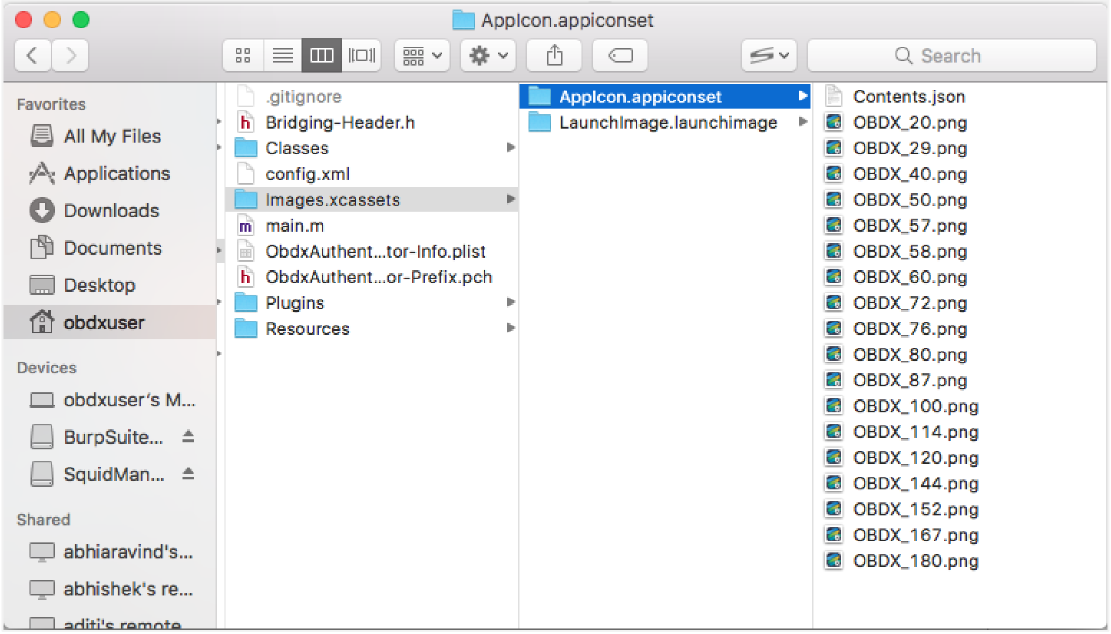
Search Paths
- Always Search User Paths: No

Signing
- Development Team: Loading...
- Provisioning Profile: <Multiple values>
  - Debug: Oracle ENT1 Developer Profile

7. To update Application icon/ Launch Image go to *Resources -> Image.xcassets and show in Finder.*

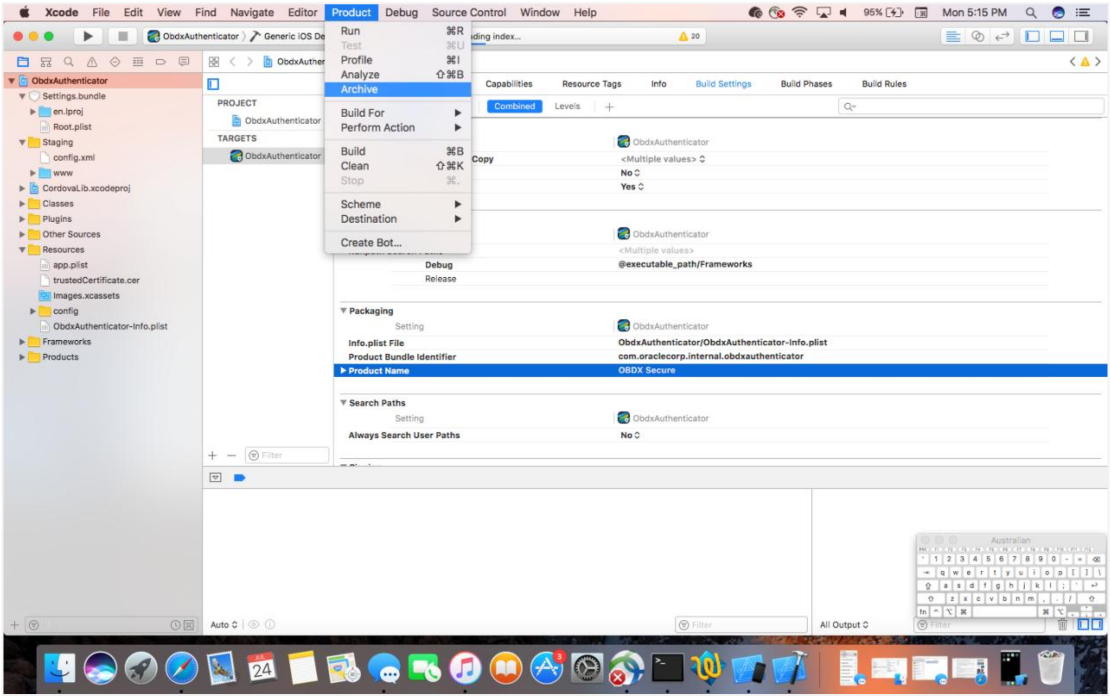


8. Replace the images with icons/launch Images of the choice of each dimension of the icon/launch Image already present.



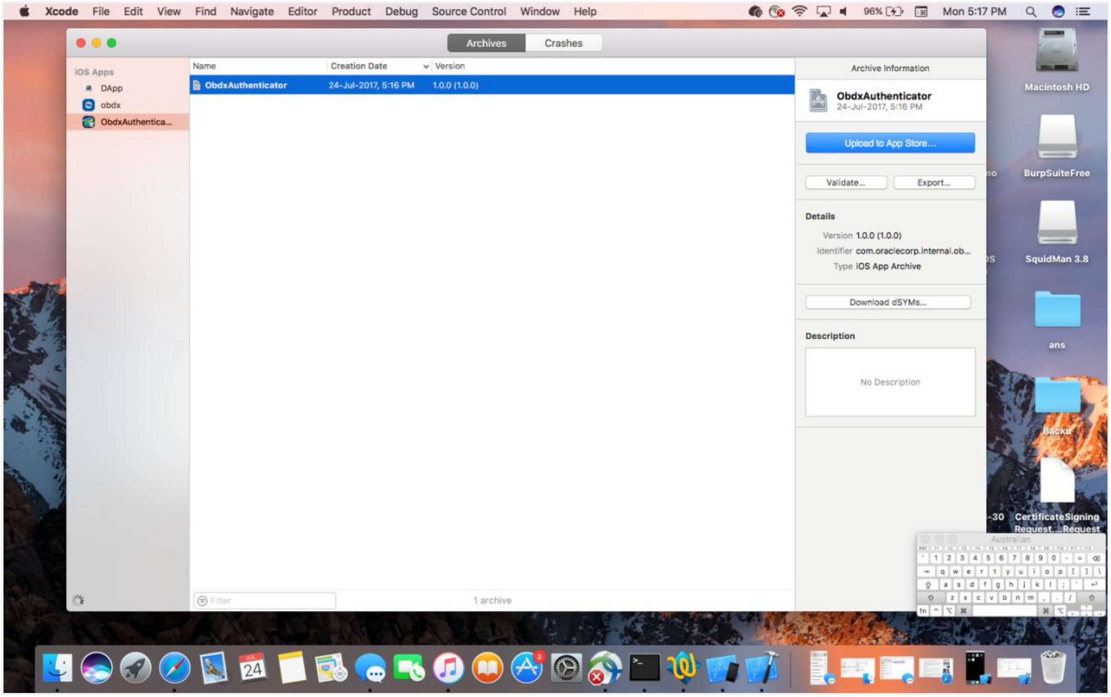
5.3 Building Authenticator Application

1. Set the simulator to *Generic iOS* device. Then go to *Product -> Archive*.



Setting	ObdxAuthenticator
Info.plist File	ObdxAuthenticator/ObdxAuthenticator-Info.plist
Product Bundle Identifier	com.oraclecorp.internal.obdxauthenticator
Product Name	OBDX Secure
Always Search User Paths	No

2. Choose your Archive and then click "*Export*".

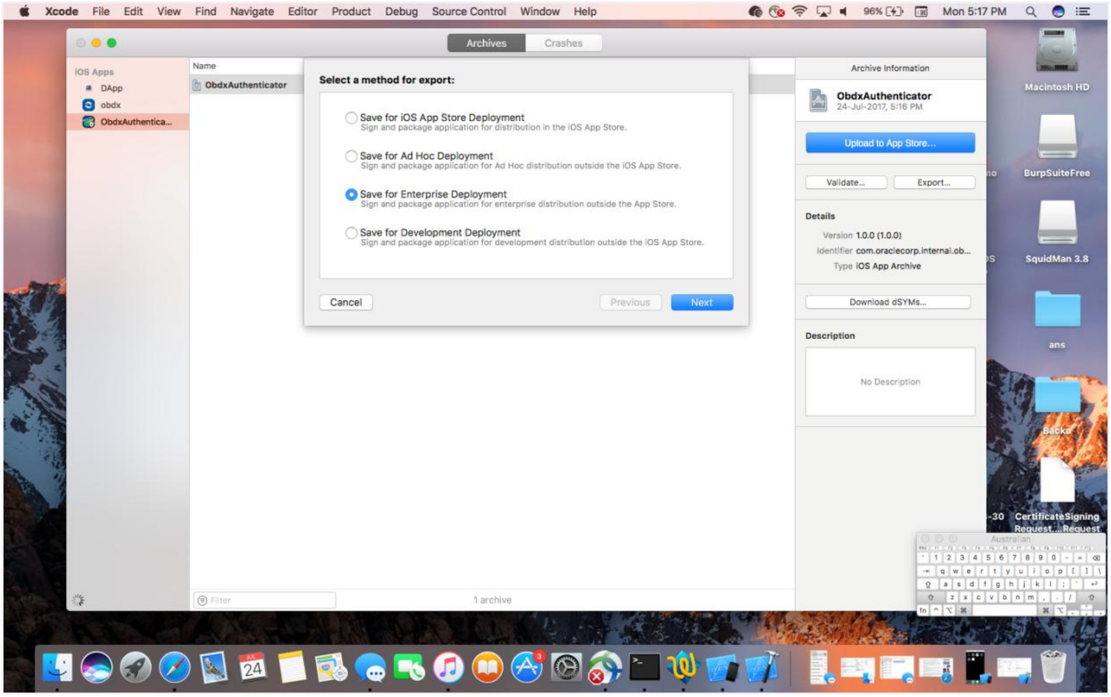


Name	Creation Date	Version
ObdxAuthenticator	24-Jul-2017, 5:16 PM	1.0.0 (1.0.0)

ObdxAuthenticator
24-Jul-2017, 5:16 PM

Details
Version 1.0.0 (1.0.0)
Identifier com.oraclecorp.internal.ob...
Type iOS App Archive

3. To get the API for releasing to the App Store choose – *Save for iOS App Store Deployment.* In my case, I am choosing – *Save for Enterprise Deployment.* Hit Next.



Select a method for export:

○ Save for iOS App Store Deployment
Sign and package application for distribution in the iOS App Store.

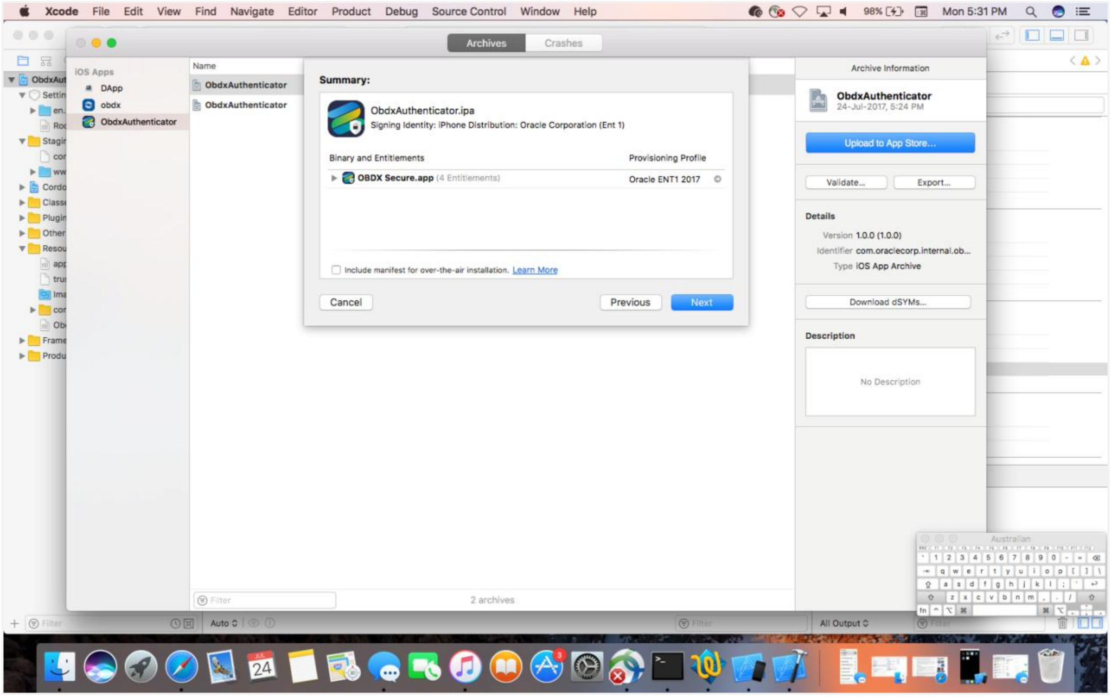
○ Save for Ad Hoc Deployment
Sign and package application for Ad Hoc distribution outside the iOS App Store.

● Save for Enterprise Deployment
Sign and package application for enterprise distribution outside the App Store.

○ Save for Development Deployment
Sign and package application for development distribution outside the iOS App Store.

Details
Version 1.0.0 (1.0.0)
Identifier com.oraclecorp.internal.ob…
Type iOS App Archive

4. Choose the appropriate Development Team for Provisioning.
5. Then choose – *Export one app for all compatible devices* and hit Next.



Summary:

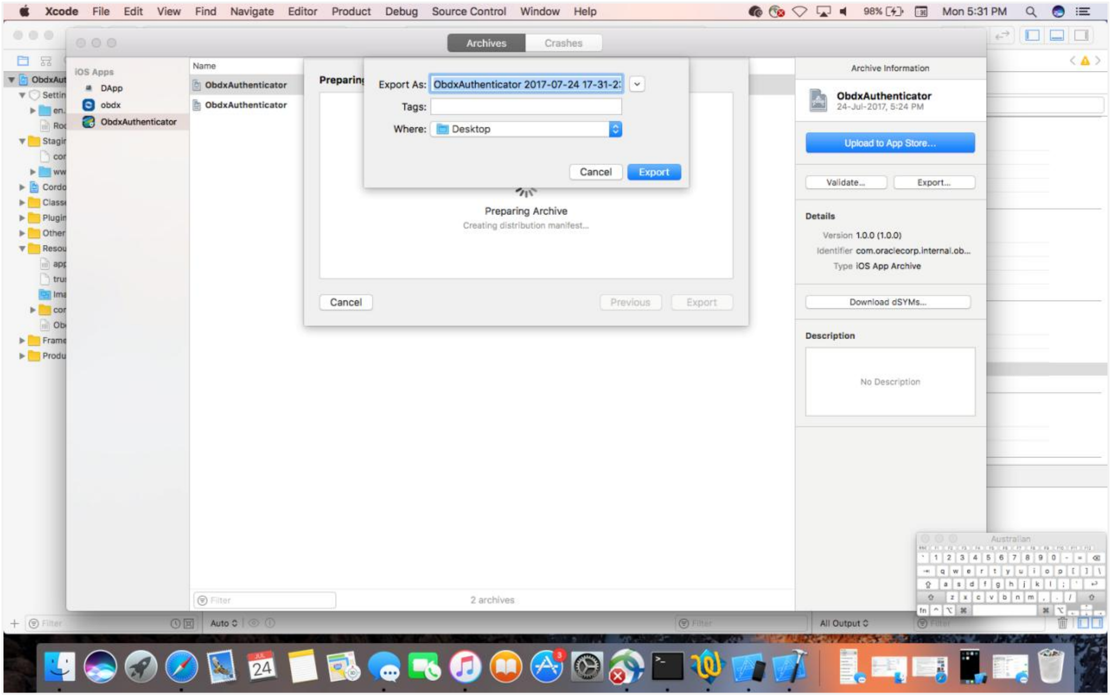
ObdxAuthenticator.ipa
Signing Identity: iPhone Distribution: Oracle Corporation (Ent 1)

Binary and Entitlements	Provisioning Profile
OBDX Secure.app (4 Entitlements)	Oracle ENT1 2017

□ Include manifest for over-the-air installation. Learn More

Details
Version 1.0.0 (1.0.0)
Identifier com.oraclecorp.internal.ob…
Type iOS App Archive

6. Choose the location where you want to save the archive. Open the location and find the *.ipa* file.



Export As: ObdxAuthenticator 2017-07-24 17-31-2

Tags:

Where: Desktop

Preparing Archive

Creating distribution manifest...

ObdxAuthenticator
24-Jul-2017, 5:24 PM

Details

Version 1.0.0 (1.0.0)

Identifier com.oraclecorp.internal.ob...

Type iOS App Archive

Description

No Description

2 archives