



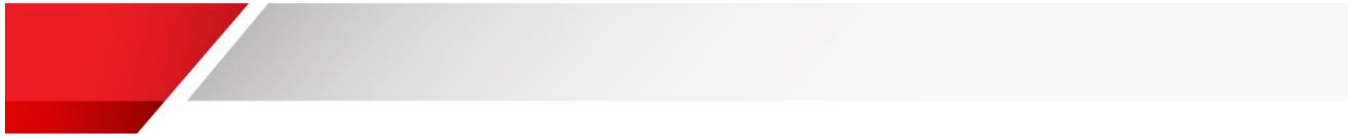
Oracle Digital Assistant
TechExchange

Article.

Integrate Oracle Digital Assistant Web SDK in Visual Builder Cloud projects

Rohit Dhamija, Nov 2019

With Oracle Digital Assistant 19.10 and later, Oracle provides a new Web SDK, the Oracle Web SDK, for integrating Oracle Digital Assistant to Web applications and web sites. This article will guide you through the steps required to integrate the Oracle Digital Assistant web SDK in a Visual Builder Cloud Service (VBCS) project.



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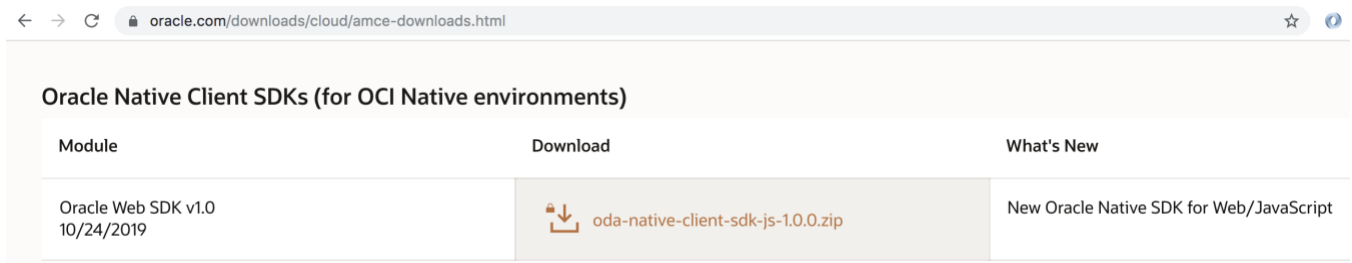
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Pre-requisites

Before going further:

1. Validate the skill functionality in the embedded conversation tester and ensure that it is working properly.
2. Set up Oracle Web SDK channel in your Digital Assistant (DA) instance and associated it with a skill. The steps are documented in the Oracle TechExchange article "[Overview of the new Oracle Web SDK and its customization features in Oracle Digital Assistant 19.10 and later](#)".
3. Please take a note of following Oracle Web channel parameter settings
 - a. **URI**, i.e. your chat server URL
 - b. **Channel ID**, i.e. Web channel Id
4. Download the Oracle Web SDK 1.0: <https://www.oracle.com/downloads/cloud/amce-downloads.html>



The screenshot shows a web browser window with the URL [oracle.com/downloads/cloud/amce-downloads.html](https://www.oracle.com/downloads/cloud/amce-downloads.html). The page title is "Oracle Native Client SDKs (for OCI Native environments)". Below the title is a table with three columns: "Module", "Download", and "What's New".


Module	Download	What's New
Oracle Web SDK v1.0 10/24/2019	 oda-native-client-sdk-js-1.0.0.zip	New Oracle Native SDK for Web/JavaScript

Figure 1 Downloads page

5. Have an Oracle Visual Builder Cloud Service instance up and running



Getting Started

In this section, you'll go through the steps to invoke Oracle web chat-widget in a sample VBCS application.

1. Create a VBCS project.
2. Import Oracle digital assistant web SDK in your project.
3. Add code to configure and invoke the web chat widget.
4. Run the project having oracle digital assistant chat widget integrated.

Step 1: Create a VBCS project

In this section, you will create a VBCS web application

1. Login into your VBCS instance and click on **New** to create an application
2. Provide application name, optionally description and click **Finish**, as shown below

Create Application [Close]

Application Name * Best to keep the name short so it looks nice
rdh_odawebsdksample

Application ID * This ID defines the context path (browser's URI) used for the application
rdh_odawebsdksample

Description
Integrating Oracle Web SDK in VBCS app

Application template
[Empty Application] [Change template](#)

[Cancel] [Finish]

Figure 2 Create application

3. Next, select **Web Apps**, since you plan to build VBCS based web application

Start building your application

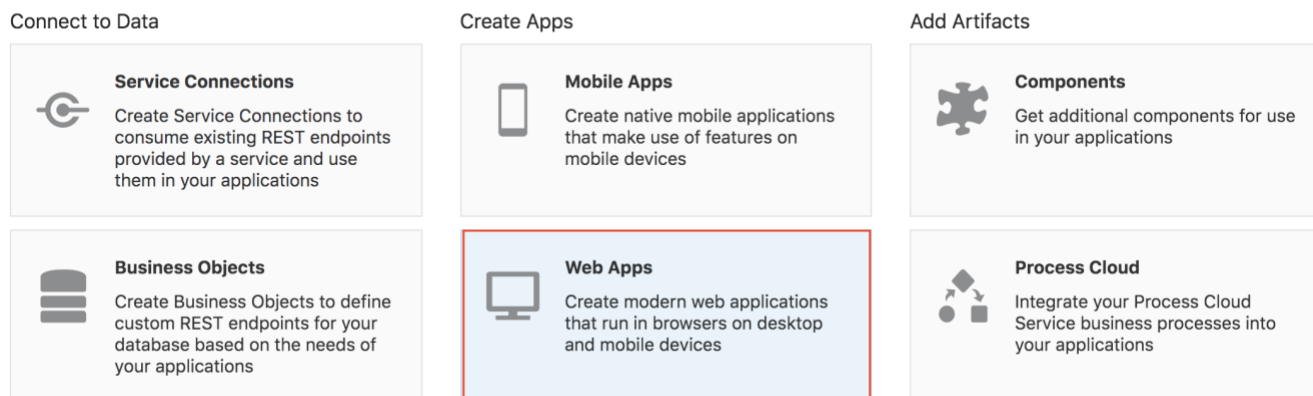


Figure 3 Choose the type of VBCS application

4. You don't have any web application defined yet, so click on **+ Web Application**, provide an identifier of the web application, i.e. index and click **Create**
5. Once created, you should see your project structure like image below:

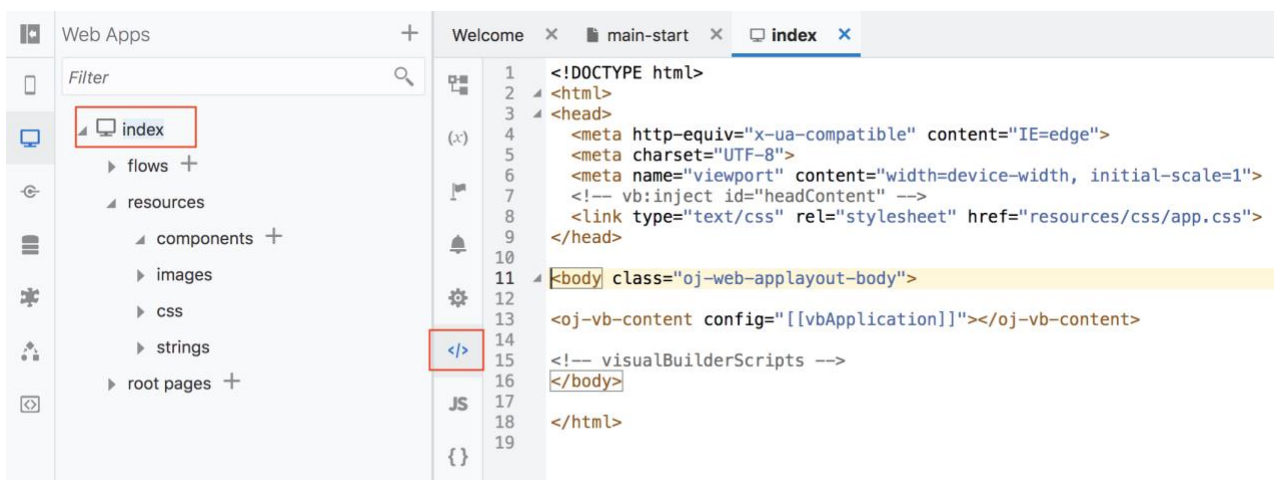


Figure 4 VBCS project structure

6. Click on run button to run your basic VBCS web application, you should see the output in a separate tab like below:

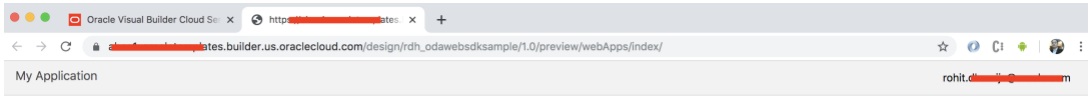
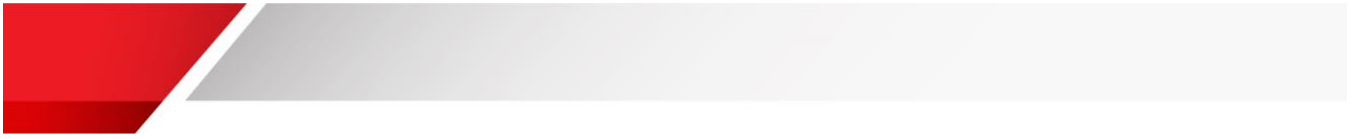


Figure 5 VBCS project output

With this, you completed the VBCS starter web application needed in the next section.

Step 2: Import Oracle Web SDK in VBCS project

Following the instructions in this section, you add the Oracle Digital Assistant Web SDK to your VBCS project

1. Extract oda-native-client-sdk-js-1.0.0.zip

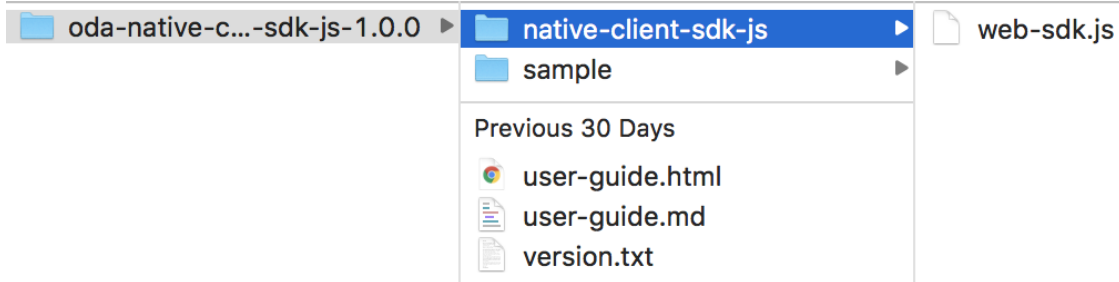


Figure 6 Web SDK folder structure

2. Compress **native-client-sdk-js** folder having web-sdk.js file
3. In your VBCS project, right-click on **resources** and click **Import**, as shown below:

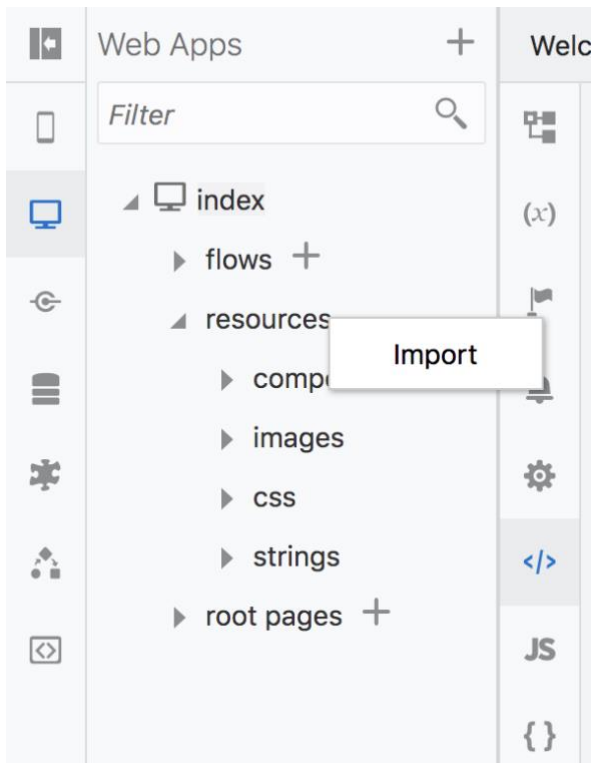


Figure 7 Import resources

4. Import the compressed **native-client-sdk-js.zip** and click on Import, as shown below

Import Resources



Import location

webApps/index/resources



Directories will be created if they do not already exist.

Select a single file to import, or a zip file containing source files and other resources



native-client-sdk-js.zip

Cancel

Import

Figure 8 Imported resources

Your imported files will appear under resources branch as shown below:

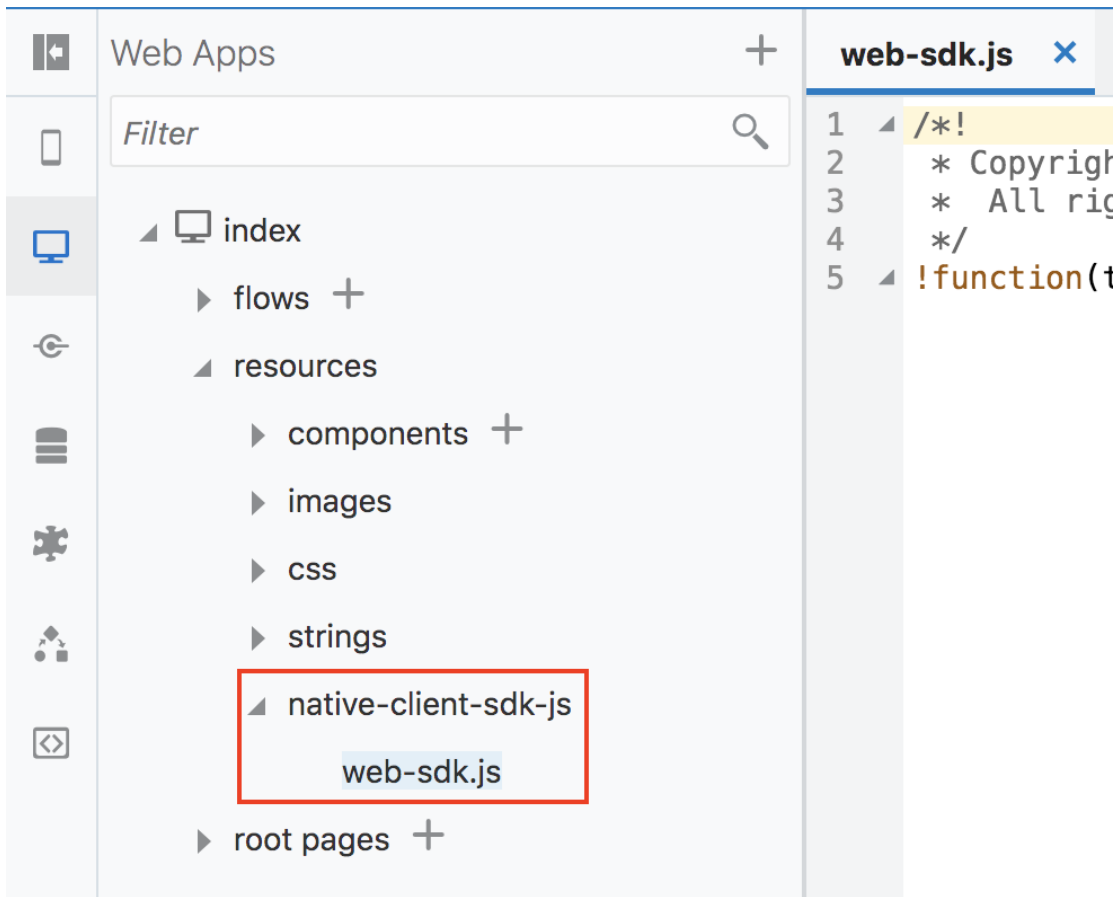


Figure 9 Updated project

At this point, you have successfully added Oracle web SDK into your VBCS project.

Step 3: Configure the Web Messenger on Your VBCS Page

In this section, you will invoke the oracle web SDK to connect and invoke the web-widget.

1. Click on index and select HTML as shown below:

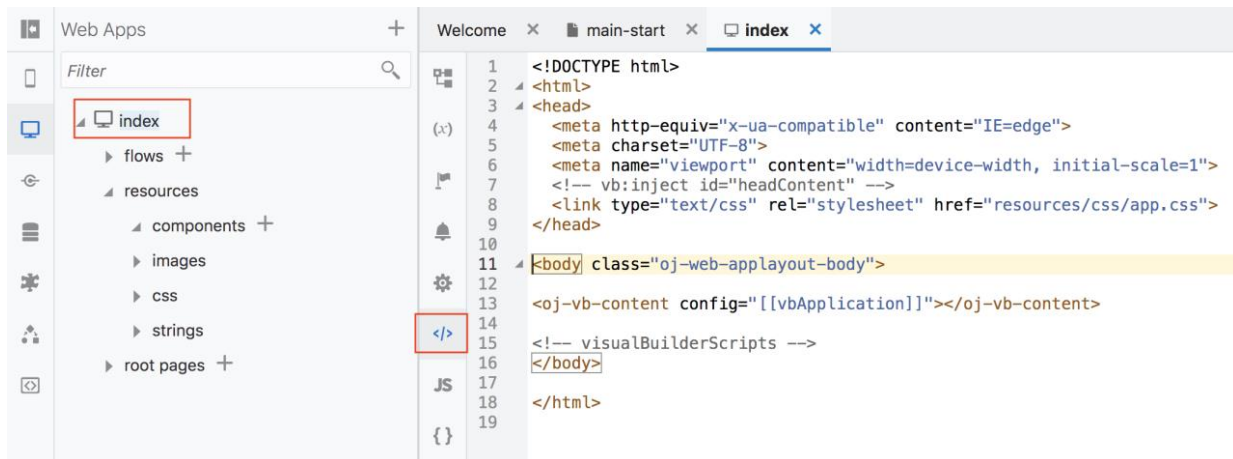


Figure 10 Index HTML code

2. Add following code before closing the `</head>` tag

```

<script src="resources/native-client-sdk-js/web-sdk.js"></script>
<script>
  var chatWidgetSettings = {
    URI: 'YOUR_URI',
    channelId: 'YOUR_CHANNELID'
  };
  setTimeout(() => {
    window.Bots = new WebSDK(chatWidgetSettings);
    Bots.connect().then(() => {
      console.log("Connection Successful");
    }, (reason) => {
      console.log("Connection failed");
      console.log(reason);
    });
  }, 2000);
</script>

```

Your index.html should look something like this as shown below:

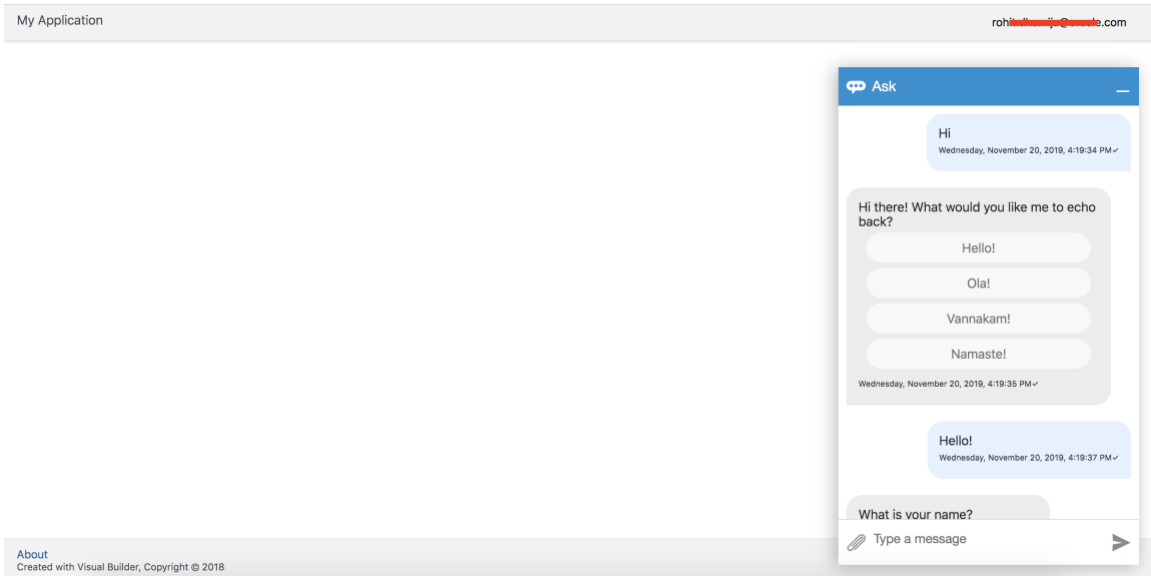
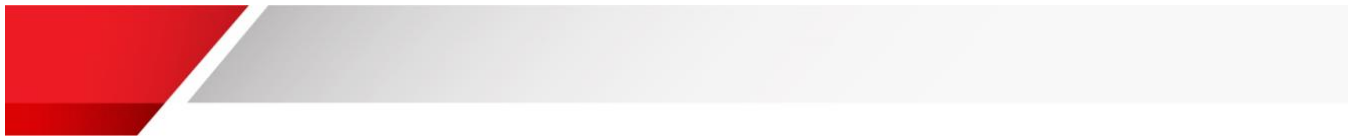


Figure 12 VBCS project with chat-widget

Conclusion

This article shows the steps required to add the Oracle Web SDK to a Visual Builder Cloud Service page.