

# SAP Cloud Platform - Technical Workshop

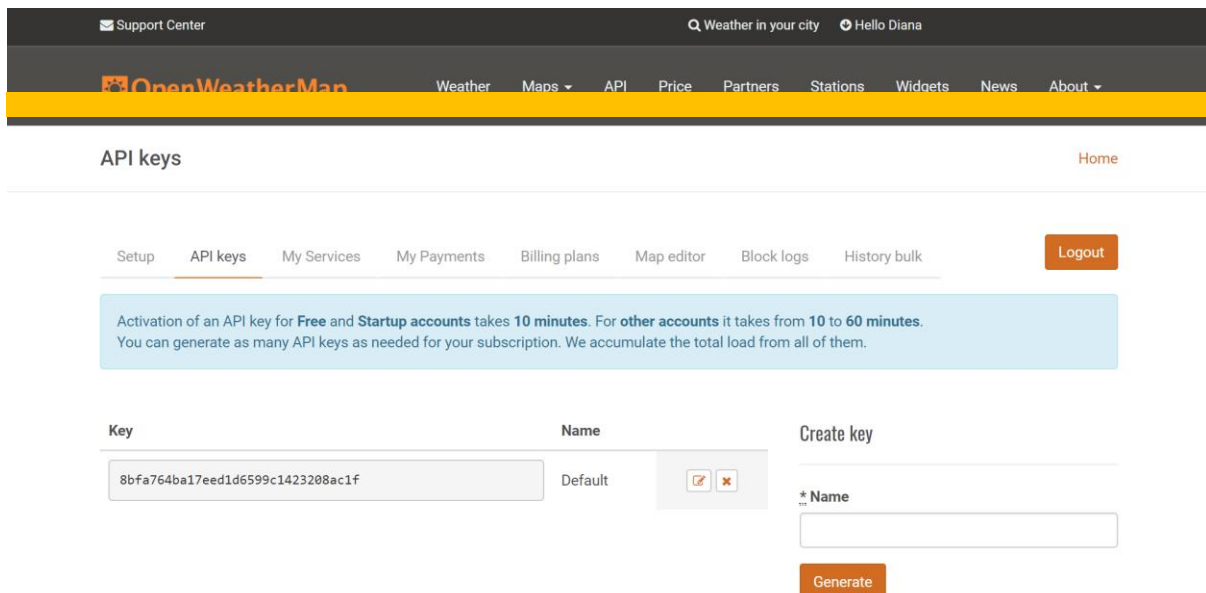
## Exercise 4 - SCP HTML5 WEB IDE DEMO

### 4.1. OpenWeather Account Setup

For this exercise you will consume a RESTful weather service that returns data in JSON format: <http://openweathermap.org/api>.

Note: In order to consume the openweathermap API you need to apply for an API key as outlined here: <http://openweathermap.org/appid>. But don't worry, that's easy to do and won't take longer than two minutes!

1. Register with OpenWeather
  - a. Open your browser and the link <http://www.openweathermap.org/> and Sign In
  - b. Choose *Create an account*
  - c. Fill in your data
2. Choose *Create Account* then copy your API key



The screenshot shows the OpenWeatherMap API keys management interface. At the top, there's a navigation bar with 'Support Center', a search bar, and a user greeting 'Hello Diana'. Below this is a main navigation bar with links for Weather, Maps, API, Price, Partners, Stations, Widgets, News, and About. The 'API keys' section is active, showing a list of API keys. A table displays one key with the value '8bfa764ba17eed1d6599c1423208ac1f' and the name 'Default'. To the right of the table is a 'Create key' form with a text input for the name and a 'Generate' button. A blue informational box states that activation for Free and Startup accounts takes 10 minutes, while other accounts take 10 to 60 minutes. A 'Logout' button is visible in the top right corner of the API keys section.

Key	Name
8bfa764ba17eed1d6599c1423208ac1f	Default

Create key

\* Name

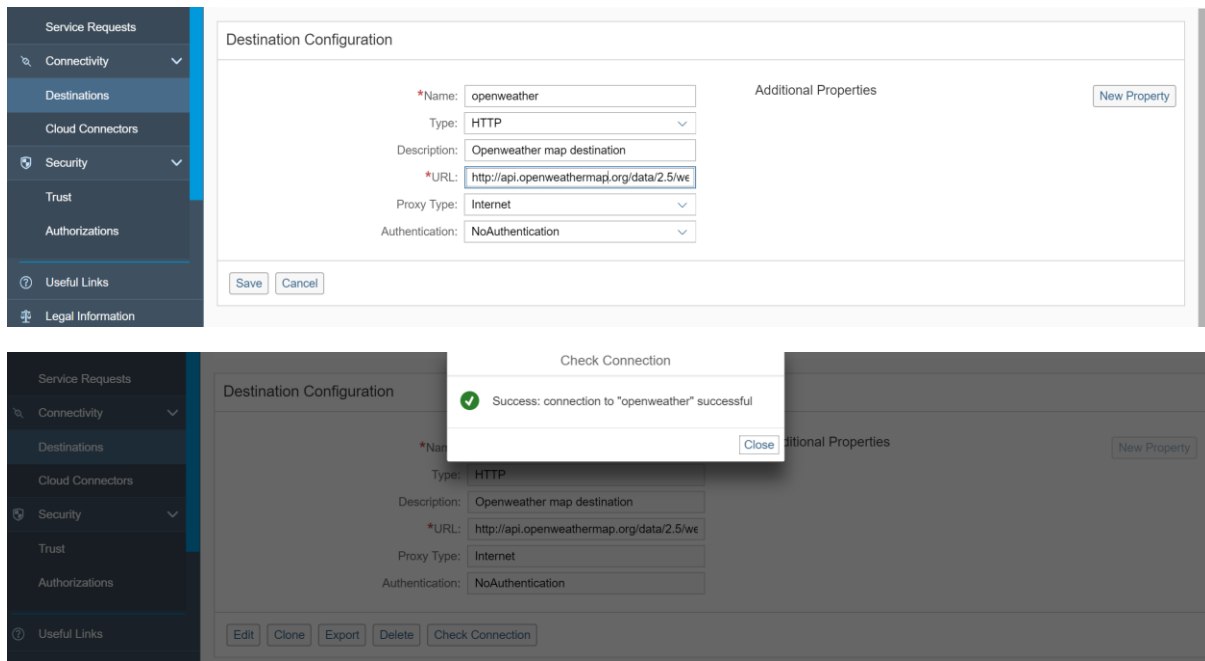
Generate

## 4.2. Destination Setup

Go to your SAP Cloud Platform account to Connectivity -> Destinations and Import the unzipped openweather file from the documents folder.

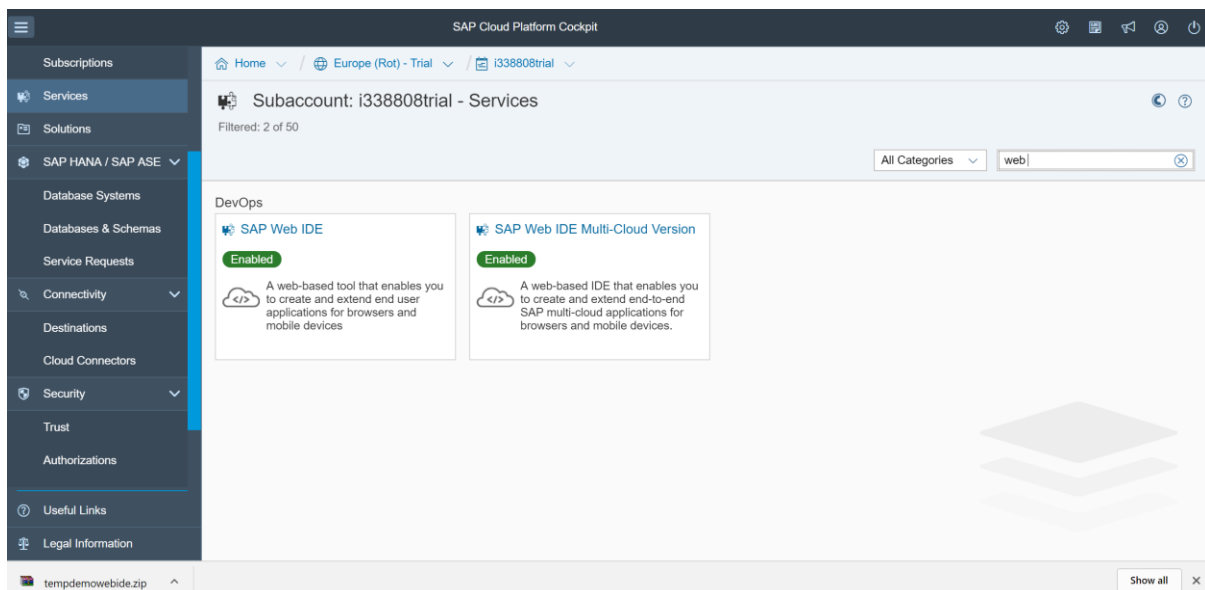
Change YOUR\_API\_KEY with the API Key you got from the previous exercise.

Save and then Check Connection

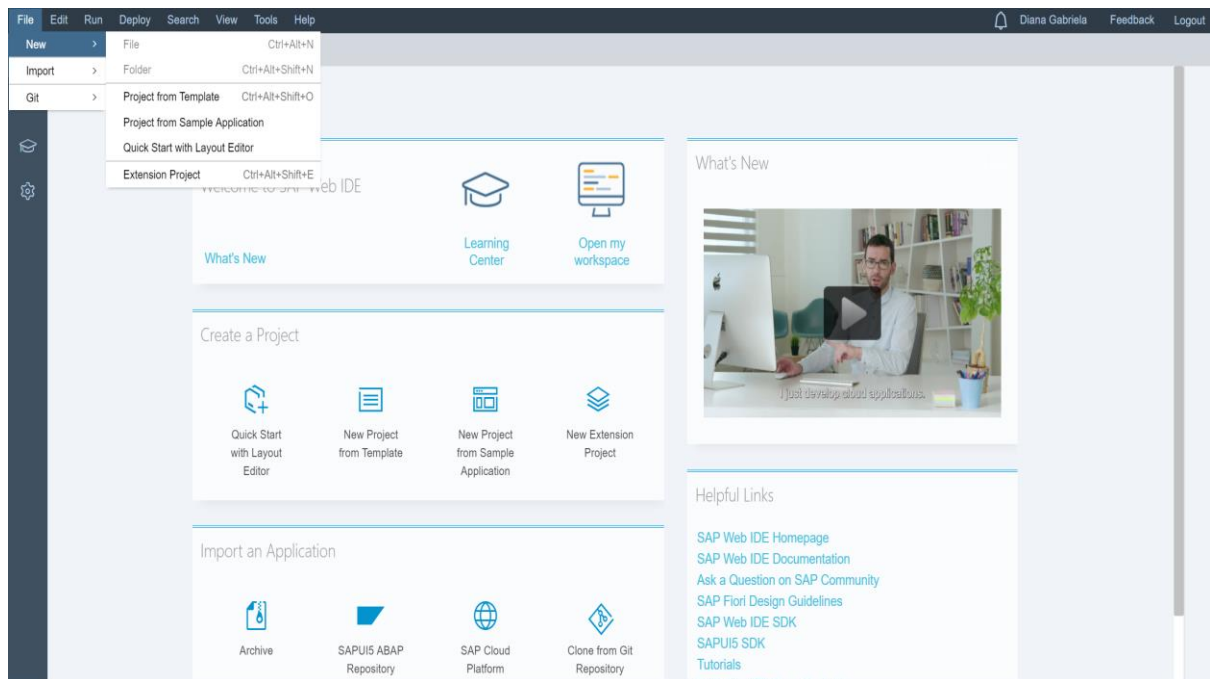


## 4.3. Web IDE Application

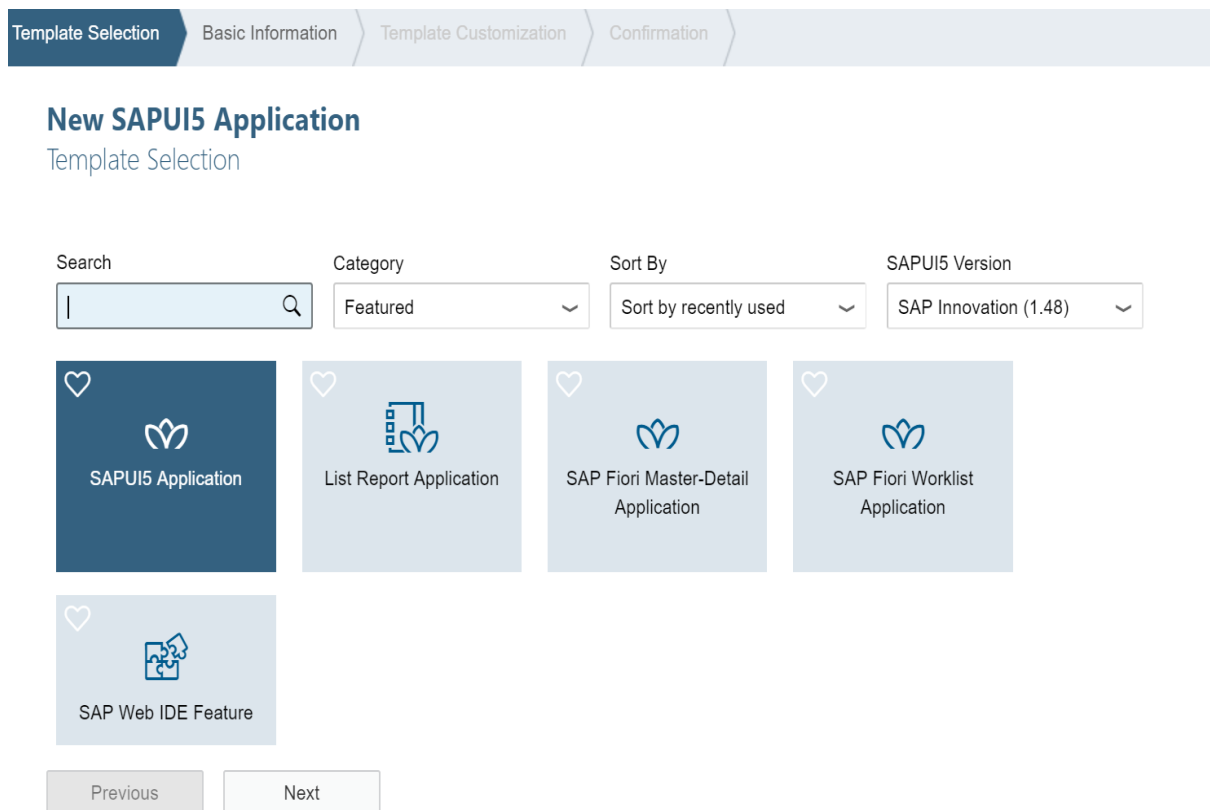
Go to your SAP Cloud Platform account to Services and open Web IDE (or Web IDE Multi-Cloud Version).



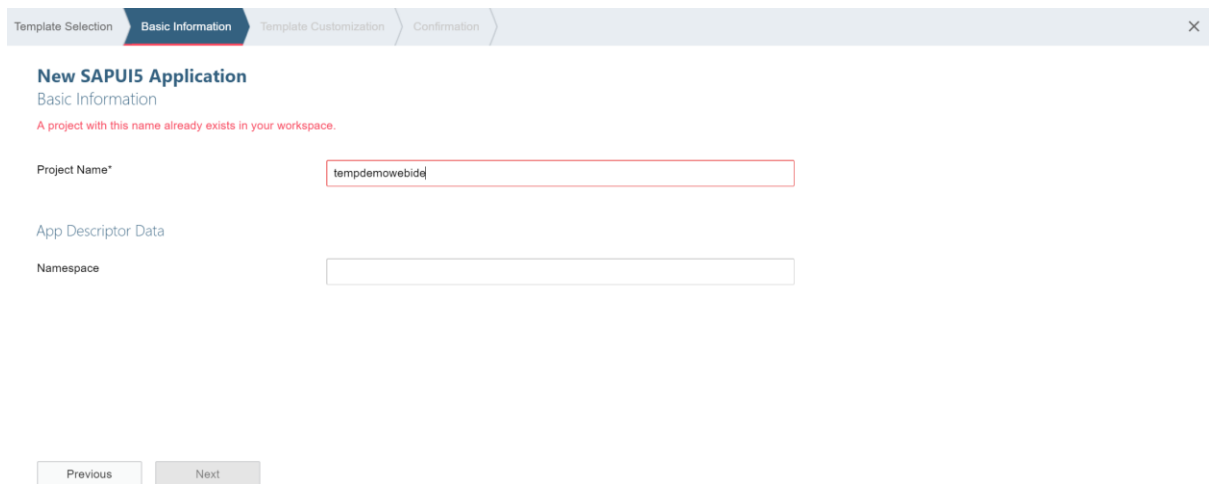
Next, in Web IDE, go to File > New > Project from Template.



Select SAPUI5 Application as template > Next.

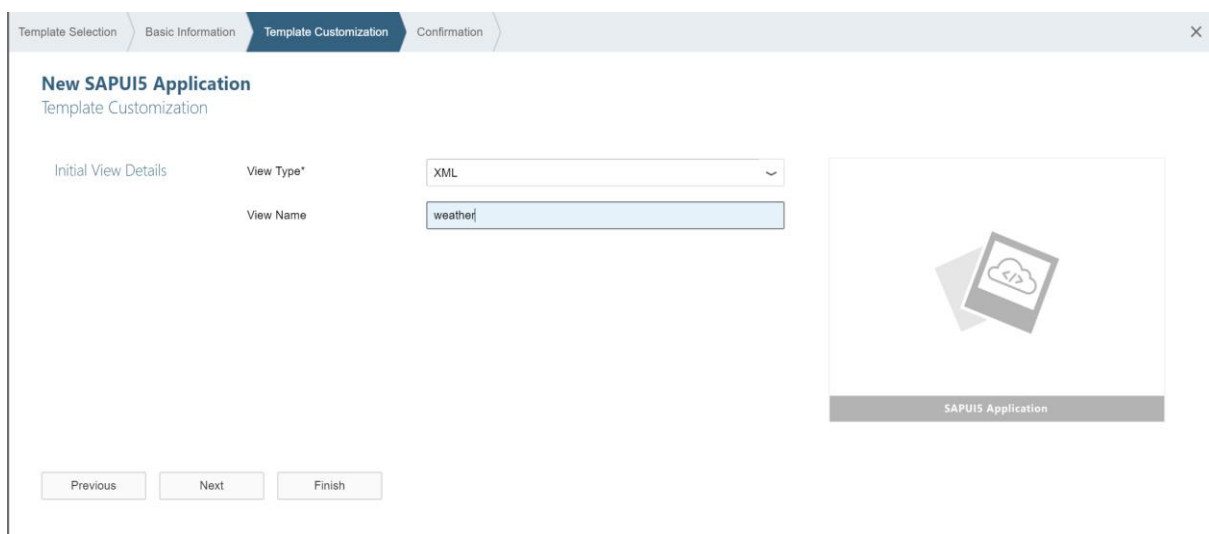


For Project Name use: tempdemoweide (If you change the name, you will need to change all the paths that make reference to this in the application code)



The screenshot shows the 'New SAPUI5 Application' wizard in the 'Basic Information' step. The breadcrumb trail at the top is 'Template Selection' > 'Basic Information' > 'Template Customization' > 'Confirmation'. The title is 'New SAPUI5 Application' with the subtitle 'Basic Information'. A red error message states: 'A project with this name already exists in your workspace.' Below this, the 'Project Name\*' field contains 'tempdemoweide' and is highlighted with a red border. The 'App Descriptor Data' section has a 'Namespace' field which is empty. At the bottom, there are 'Previous' and 'Next' buttons.

For View Name use: weather (If you change the name, you will need to change all the paths that make reference to this in the application code)



The screenshot shows the 'New SAPUI5 Application' wizard in the 'Template Customization' step. The breadcrumb trail at the top is 'Template Selection' > 'Basic Information' > 'Template Customization' > 'Confirmation'. The title is 'New SAPUI5 Application' with the subtitle 'Template Customization'. Under 'Initial View Details', the 'View Type\*' dropdown is set to 'XML'. The 'View Name' field contains 'weather'. To the right is a preview area showing a cloud icon with a code symbol and the text 'SAPUI5 Application' below it. At the bottom, there are 'Previous', 'Next', and 'Finish' buttons.

Click Finish.

Next, you will need to import the scripts into the files as it follows:

SCP\_ex\_HTML5\_SAP\_WebIDE\_script 1 -> neo-app.json

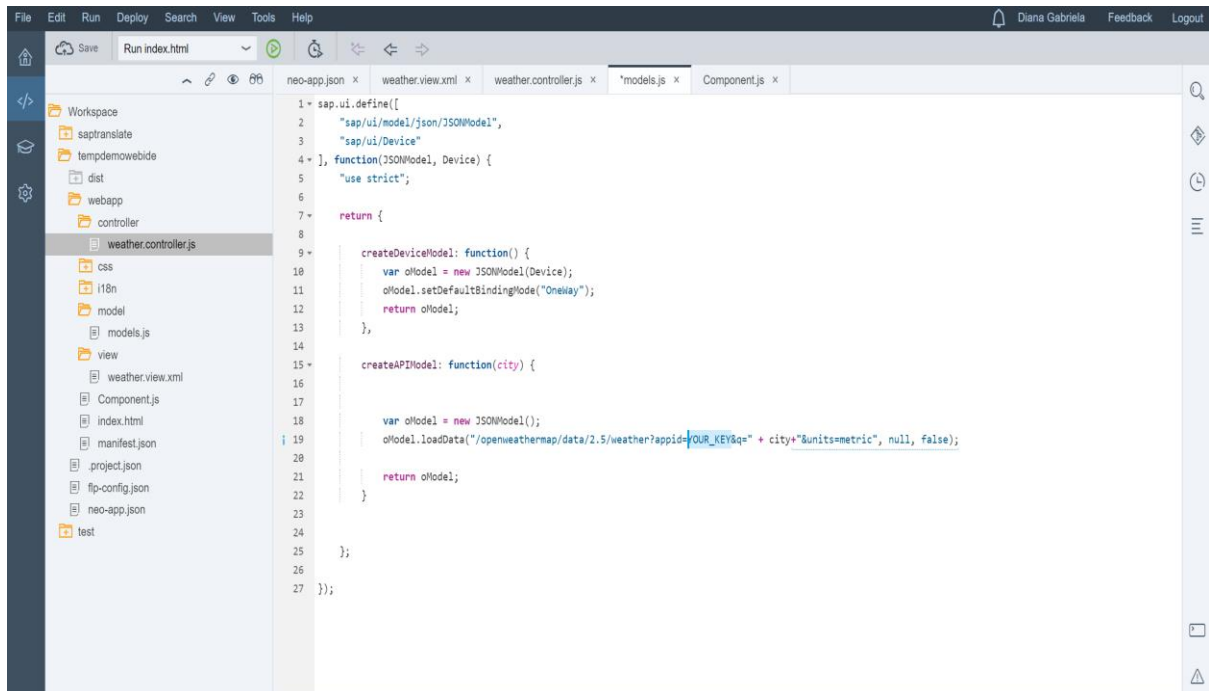
SCP\_ex\_HTML5\_SAP\_WebIDE\_script 2 -> weather.view.xml

SCP\_ex\_HTML5\_SAP\_WebIDE\_script 3 -> weather.controller.js

SCP\_ex\_HTML5\_SAP\_WebIDE\_script 4 -> models.js

SCP\_ex\_HTML5\_SAP\_WebIDE\_script 5 -> Component.js

One more thing, you will need to add in the models.js file is your API key from the first exercise.



The screenshot shows the SAP Studio IDE interface. On the left is a project explorer showing a workspace with folders like 'saptranslate', 'tempdemo', 'webapp', 'controller', 'model', 'view', and 'test'. The 'model' folder is expanded, showing 'models.js'. The main editor displays the 'models.js' file with the following code:

```
1= sap.ui.define([
2  "sap/ui/model/json/JSONModel",
3  "sap/ui/Device"
4 ], function(JSONModel, Device) {
5  "use strict";
6
7  return {
8
9    createDeviceModel: function() {
10     var oModel = new JSONModel(Device);
11     oModel.setDefaultBindingMode("OneWay");
12     return oModel;
13   },
14
15   createAPIModel: function(city) {
16
17     var oModel = new JSONModel();
18     oModel.loadData("/openweathermap/data/2.5/weather?appid=OUR_KEY&q=" + city+"&units=metric", null, false);
19
20   },
21
22   return oModel;
23
24 };
25
26 });
27 };
```

After you save all the files (File -> Save All), you can Run your app (Alt + F5).