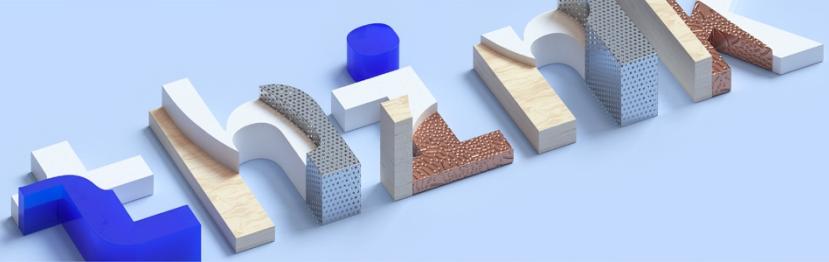


think 2018

IBM



Lab Center – Hands-on Lab

Session 8424

Session Title Building Integrated Apps for IBM Collaboration

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Introduction

This workshop was prepared as step by step instruction. It should lead you through the use of the new IBM Connections Cloud extensions and components. All included exercises are going to support you in creating an integration between IBM Connections Cloud and Salesforce.

The way in which the integration works requires both

- Client-side integration
This part will be experimented during the execution of the labs
- Server-side integration
This part will be described and shown but you will not have to develop anything server-side during these labs.
The information provided during the lab, though, should give you enough information to experiment and implement yourself such an integration.

All exercises are fulfilled with screen shots for easier navigation. However, there may be some small differences based on your environment, browser version, language or user account used.

Icons

The following symbols appear in this document at places where additional guidance is available.

Icon	Purpose	Explanation
	Important!	This symbol calls attention to a particular step or command. For example, it might alert you to type a command carefully because it is case sensitive.
	Information	This symbol indicates information that might not be necessary to complete a step but is helpful or good to know.
	Trouble-shooting	This symbol indicates that you can fix a specific problem by completing the associated troubleshooting information.

Code, Solutions, Examples

A special Github repository has been created where solutions, examples and the code or the graphics to be used are made available to all the students. We will reference this Github repository throughout this document as “**Reference Repository**”.

This Github repository is available at this address:

<https://github.com/stefanopog/IntegrationThinkLab>

No description, website, or topics provided.

Add topics

6 commits 1 branch 0 releases 1 contributor

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

Stefano Pogliani and Stefano Pogliani ok Latest commit ddd2d71 a minute ago

Lab1 ok a minute ago

README.md Update README.md 13 days ago

README.md

IntegrationThinkLab

IBM Connections Integration Labs for Think2018

You may want to open a tab of your browser on this address in order to use the material. Feel free to clone this repository for better analyzing the code and the examples.

Documentation

The text of these exercises, together with other useful documentation, is stored in the Docs folder of the Github repository mentioned above.

Lab Setup Useful information

You will all have access to “your own” (for the time being of the lab) IBM Connections Cloud organization.

You will be granted Administrator access to such organization.

Information	
	URL : https://apps.na.collabserv.com
	Username : thinkattendeeX@yopmail.com
	Password : passw0rd
	The X is a number from 1 to 20 that will be provided to you by the instructor.

Lab 1 Extending the OrientMe Screen

This is a very simple exercise, which consists in adding a very simple customization to the OrientMe interface.

What we want to achieve

We are adding:

1. A new tab to the interface

The screenshot shows the OrientMe interface with a blue header bar containing 'CustomizerThinkLabOrg1' and tabs for 'Home', 'People', 'Communities', 'Files', 'Activities', and 'Meetings'. Below the header is a row of circular icons. A red arrow points to the 'IBM.com' tab, which is highlighted with a blue underline. A modal window for 'IBM' is open, featuring the IBM logo and navigation links for 'Products', 'Services', 'Developers', 'Support', and 'Careers'. The main content area of the modal has a dark background with the text 'GDPR enforcement is less than six months away'.

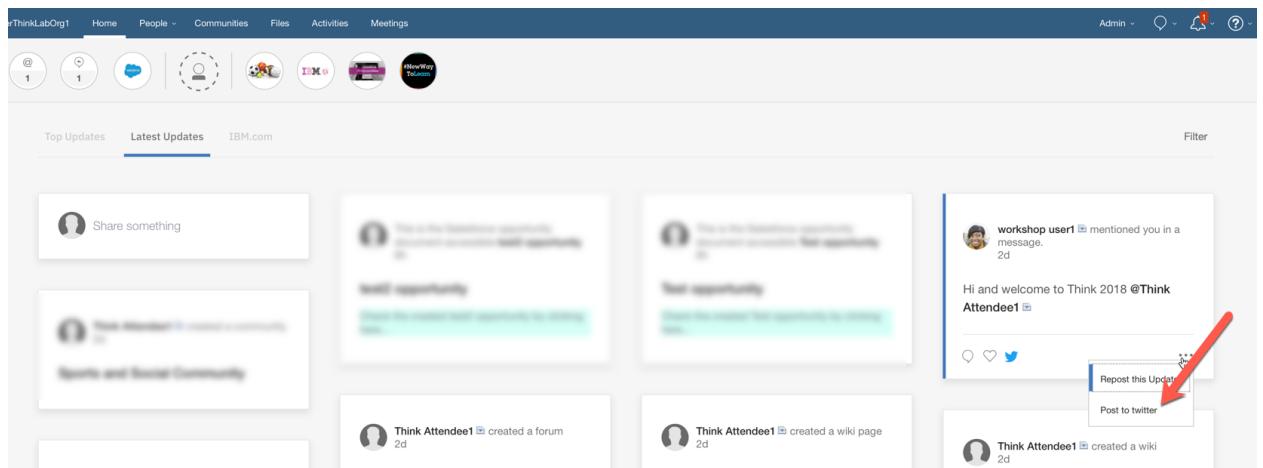
A New tab will give you the possibility to provide users with contextual access to frequently used and important things for doing their business

2. A new Action to the standard tiles

The screenshot shows the OrientMe interface with a blue header bar containing 'Admin' and other navigation items. Below the header is a row of circular icons. A red arrow points to the 'Latest Updates' tab, which is highlighted with a blue underline. The main content area displays several tiles. One tile on the right has a footer section containing a user profile picture, the text 'workshop user1 mentioned you in a message.', and a timestamp '2d'. Below this is a message 'Hi and welcome to Think 2018 @Think Attendee1'. At the bottom of the tile is a row of social media icons: a speech bubble, a heart, and a Twitter bird, with a red arrow pointing to the Twitter icon.

The action will provide users a quick shortcut towards frequently used operations. In this case we used “Twitter” (and it is very unlikely that you will promote Tweeting information that may come from internal sources...). But the Action could link the user to some business-related application that would make a great use of the information without forcing the user to copy/paste it or to change the working context.

3. A new Menu to the standard tiles:



The Menu item provides the same advantages as the previously described Action.

Preparation Activities

In order to do those modifications, we need to use an extension to the OrientMe page.

The code of the extension is already prepared and available within the **Reference Repository**, under the **Lab1** folder as shown by the image below:

A screenshot of a GitHub repository page for 'stefanopog / IntegrationThinkLab'. The repository has 0 issues, 0 pull requests, 0 projects, 1 wiki page, and 0 insights. The 'Code' tab is selected. A red arrow points to the 'OrientMe.json' file in the list of files. The repository has 0 stars, 0 forks, and 0 commits. The latest commit was made a minute ago by 'stefanopog' and renamed 'RADME.md' to 'README.md'. Below the repository details, there's a preview of the 'IntegrationThinkLab' page, which includes a title, a subtitle, and a navigation bar at the bottom.

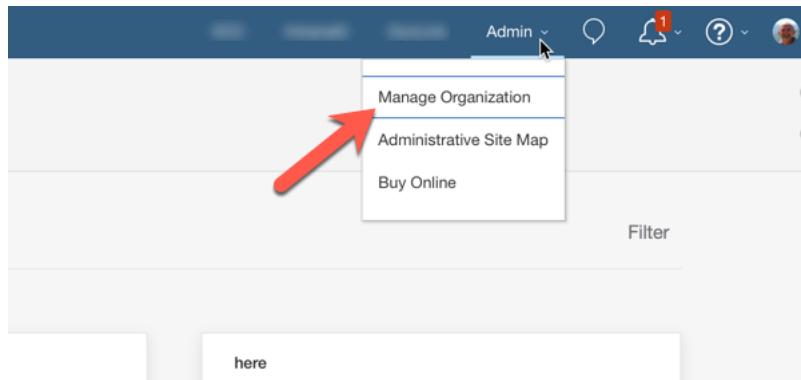
What you need to do is to add the extension definition to the IBM Connections Application Registry.

Environment SetUp

Open a new window on your browser and log into IBM Connections

<https://apps.na.collabserv.com> providing the credentials the instructors gave you.

Navigate to the Administration screen:



and, once there, go to the “Organization Extensions” panel:

A screenshot of the "User Accounts" page in the IBM Connections administration interface. The page has a dark blue header with various navigation links like Home, Mail, Calendar, etc. Below the header is a "Administration" section. On the left, there is a sidebar with several categories: "Personal" (My Account Settings), "User Accounts" (selected, shown in blue), "System Settings" (Security, Theme, etc.), and "New Apps Manager" (part of the "Organization Extensions" section). A red arrow points to the "Organization Extensions" link under "User Accounts". The main content area shows a list of user accounts with columns for Name and Email. Each account entry has a small dropdown arrow next to the name.

Then move to the **New Apps Manager** as shown below:

The screenshot shows the IBM Connections Administration interface. On the left, there's a sidebar with sections like Personal, Organization Extensions (which is selected), and System Settings. The main area is titled "Applications For [REDACTED]" and contains a message about creating Connections Pink applications. Below this are buttons for Add, Export, Delete, and a filter dropdown. A red arrow points to the "new Apps Manager" link in the message.

Click on the blue “New App” button:

The screenshot shows the IBM Connections Administration interface again. The sidebar is identical to the previous one. The main area is titled "Apps" and "All Apps". It features a prominent blue "New App" button with a plus sign. A red arrow points to this button. Below it, there are several app cards, each with a large letter icon (C, I) and some text.

and then, click on the “Code Editor” button as shown here:

The screenshot shows the IBM Connections Administration interface. On the left, there's a sidebar with several sections: Personal (My Account Settings), Organization Extensions (Connections Mobile App Management, Chat and Meetings, Apps), and System Settings (Security, Theme, IBM SmartCloud Notes). The 'Organization Extensions' section is currently active. In the main content area, there's a 'Basic Information' panel with fields for 'App Name (required)' and 'Short Description (required)'. Below these are 'Cancel' and 'Save' buttons. A red arrow points to the 'Code Editor' tab in the sidebar.

Replace the few lines on the right panel with the content of the “OrientMe.json” file you [previously found](#) on Github and then press the “Save” button:

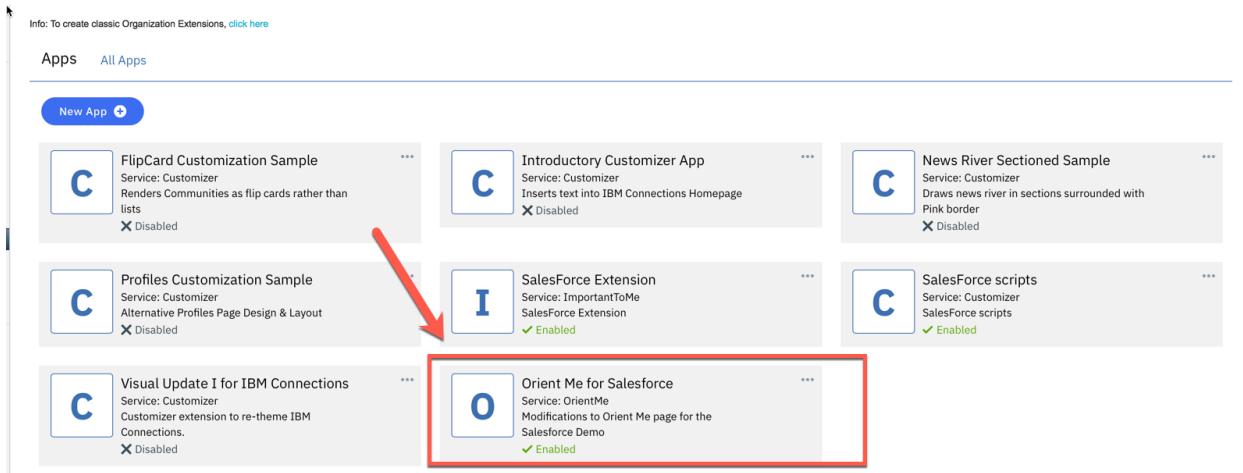
The screenshot shows the same interface as above, but now the 'Code Editor' tab is selected. A warning message in a callout box says: "Warning Import will overwrite editor contents." Below the code editor area, there are 'Cancel' and 'Save' buttons. A red arrow points to the 'Save' button. The code editor contains JSON code:

```

38     "localRefName": "initials_people"
39
40     "actions": [
41       {
42         "type": "create",
43         "visibleFieldId": "bgdiv",
44         "enabled": true,
45         "script": {
46           "source": "https://apps.ce.collabserve.com/files/customizer/orient&lt;br/&gt;_oppy.js",
47           "function": "__createOppy"
48         },
49         "icon": {
50           "type": "png",
51           "data": "data:image/jpeg;base64,/9j/4AAQSkZJRGABAEASABIAAD/7QBkUC
52         },
53         "label": "Create Opportunity"
54       },
55       {
56         "type": "search",
57         "icon": {
58           "type": "png",
59           "data": "data:image/jpeg;base64,/9j/4AAQSkZJRGABAEASABIAAD/7QBkUC
}

```

What does this “Registry Application” do? (you can explore the code you just pasted...)



It actually added the following extensions:

- The Twitter Tile Action
- The Twitter Tile Menu
- The new IBM Tab

Feel free to explore the code that you just pasted. The complete documentation for that code is available here: https://www-10.lotus.com/ldd/appdevwiki.nsf/xpDocViewer.xsp?lookupName=Dev+Guide+topics#action=openDocument&res_title=Adding_custom_entries_to_Important_to_Me&content=sdkcontent

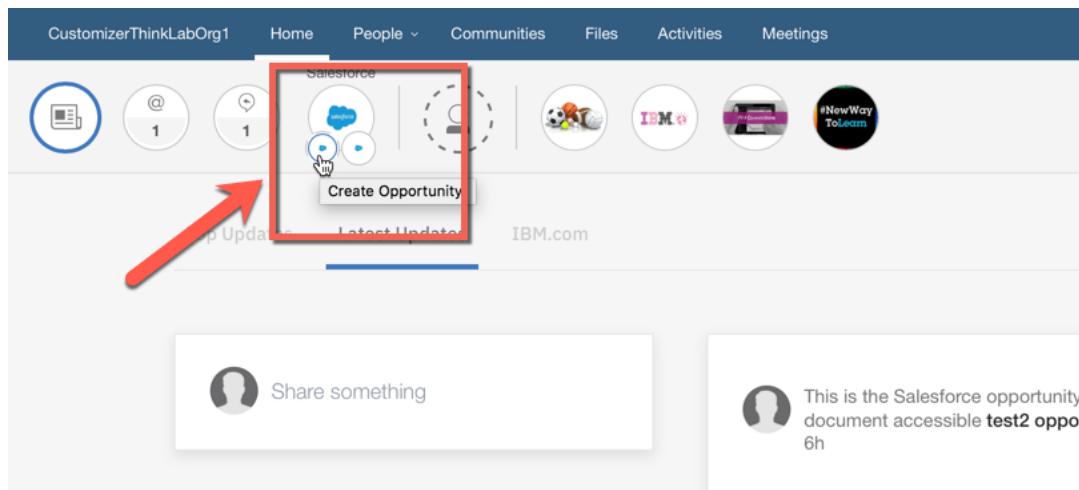
Lab 2 Creating a new bubble in OrientMe

This is a very simple exercise, which consists in adding a new bubble to the IBM Connections OrientMe interface.

This bubble will give us the possibility to interact with our own Salesforce.com account from within the IBM connections user interface, thus streamlining the daily activities we perform.

What we want to achieve

Once we finish this second lab, our IBM Connections OrientMe page will look like the following:



This bubble will be displayed on the IBM connections OrientMe page of all the users at all the time and provides the following main functionalities:

- Easy access to the customer's Salesforce portal
- Easy creation of an Opportunity
- Easy display of an opportunity
-

All of this integrated with the “tiles” shown on the page as we will see during the exercise itself...

Preparation Activities

In order to do those modifications, we need to add a new extension to the OrientMe page. The code of the extension is already prepared and available within the **Reference Repository** under the **Lab2** folder.

stefanopog / IntegrationThinkLab

Code Issues Pull requests Projects Wiki Insights Settings

Branch: master ▾ IntegrationThinkLab / Lab2 /

Stefano Pogliani and Stefano Pogliani ok Latest commit 8675ef2 11 minutes ago

..

README.md ok 11 minutes ago

SalesforceExtension.json ok 11 minutes ago

README.md

IntegrationThinkLab

IBM Connections Integration Labs for Think2018

Lab2 : Creating a new OrientMe "bubble"

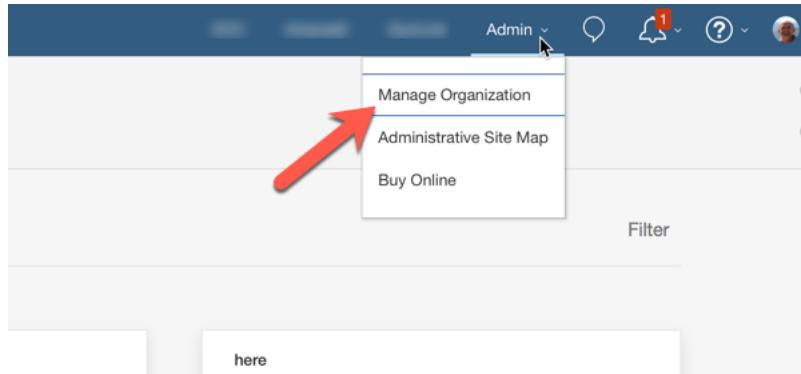
What you need to do is to add the extension definition to the IBM Connections Application Registry.

Environment SetUp

Open a new window on your browser and log into IBM Connections

<https://apps.na.collabserv.com> providing the credentials the instructors gave you.

Navigate to the Administration screen:



and, once there, go to the “Organization Extensions” panel:

The screenshot shows the IBM Connections Administration interface. The left sidebar has a dark blue header 'User Accounts'. Below it are several sections: Personal (My Account Settings), System Settings (Security, Theme, IBM SmartCloud Notes, Profile Customization, Directory Options), and Organization Extensions (Connections Mobile App Management, Chat and Meetings, Apps). The main content area is titled 'User Accounts' and displays a list of user accounts with columns for Name and Email. The first account listed is Amadou Alain.

Then move to the **New Apps Manager** as shown below:

The screenshot shows the IBM Connections Administration interface. The left sidebar has a dark blue header 'Organization Extensions'. Below it are several sections: Personal (My Account Settings), User Accounts, System Settings (Security, Theme, IBM SmartCloud Notes, Profile Customization), and Organization Extensions (Connections Mobile App Management, Chat and Meetings, Apps). The main content area is titled 'Applications For [app]' and displays a list of applications. At the top right, there is an info message: 'Info: To create Connections Pink applications, view the [new Apps Manager](#)'. There are buttons for Add, Export, Delete, and Filter by Service.

Click on the blue “New App” button:

The screenshot shows the IBM Connections Administration interface. On the left, there's a sidebar with sections like Personal, Organization Extensions (which is currently selected), and System Settings. The main area is titled "Apps" and shows a list of existing apps. A prominent blue button labeled "New App" with a plus sign is centered at the top of the app list. A large red arrow points directly at this "New App" button.

and then, click on the “Code Editor” button as shown here:

The screenshot shows the "Basic Information" step of creating a new app. The sidebar on the left is identical to the previous screenshot. The main area has a left sidebar with "Back to Apps", "Basic Information" (which is selected and highlighted in blue), "Extensions", and "Code Editor". A large red arrow points to the "Code Editor" button. The right side of the screen contains fields for "App State" (set to "Enabled"), "App Name (required)", "Short Description (required)", and "Cancel" and "Save" buttons.

Replace the few lines on the right panel with the content of the “SalesforceExtension.json” file you [previously found](#) on Github and then press the “Save” button:

```

38      "localRefName": "initials_people"
39
40    },
41    "actions": [
42      {
43        "type": "create",
44        "visibleField": "bgdiv",
45        "enabled": true,
46        "script": {
47          "source": "https://apps.ce.collabobserv.com/files/customizer/orient&lt;br/&gt;_createOppty"
48        },
49      },
50      {
51        "icon": {
52          "type": "png",
53          "data": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/7QBkUC
54        },
55      },
56      {
57        "label": "Create Opportunity"
58      }
59    ]

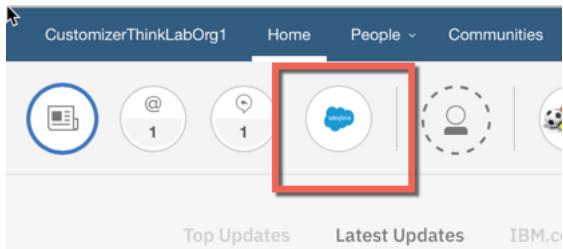
```

What does this “*Registry Application*” do? (you can explore the code you just pasted...)

It actually does several things:

- It declares an extension of type “com.ibm.itm.entry.custom” whose name is “**CustomBubble**”.

This extension represents the Bubble itself as you see it in the picture here below:



It mainly declares the icon shown in the center of the “bubble” and the action that the

interface will play when the user will click on the icon, which is executing the “`__salesforceDemo`” function from the script (**mySalesforce.js**) which is defined by the URL pointed to by the “**source**” attribute

Information

Note the use of the “`?repoName=think-samples`” suffix in the URL.

This instructs IBM Connections to look for this file in the specific Files Repository. Each IBMM Connections Cloud organization has its own repository, and other repositories may exist to share code.

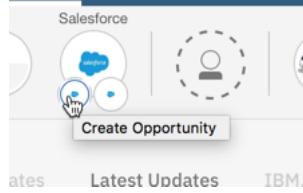


A copy of the **mySalesforce.js** file is available for your convenience under the **Reference Repository** (path **resources/svc_scripts**).

You will not modify any of the files under resources during this lab, but you are welcome to study them and to ask the instructor explanations.

- It declares **TWO** Actions for the above-mentioned extension:

- Create:



This action defines

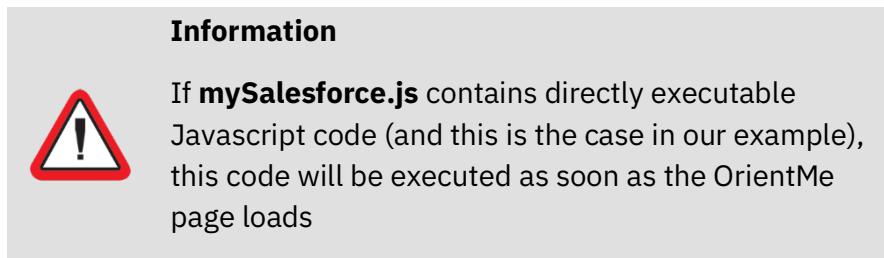
- the icon (in our case we used the same icon for the action and for the “bubble”, but they could be different)
- the Label that will be shown to the user hovering with the mouse
- the code that the interface will play when the user will click on the action (in our case, clicking the action will execute the “`__createOppy_stub`” function from the script (**mySalesforce.js**) which is defined by the URL pointed to by the “**source**” attribute

- Show:



This action defines

- the icon (in our case we used the same icon for the action and for the “bubble”, but they could be different)
- the Label that will be shown to the user hovering with the mouse
- the code that the interface will play when the user will click on the action (in our case, clicking the action will execute the “`_showOppy_stub`” function from the script (**mySalesforce.js**) which is defined by the URL pointed to by the “**source**” attribute
- It declares another extension which tells IBM Connections to load the **mySalesforce.js** script from the `think-samples repoName` when it loads the page. This is particularly useful in our case because we do want to apply some processing to the OrientMe page independently from the fact that the Javascript file also contains the code used to implement the actions on the “bubble”.



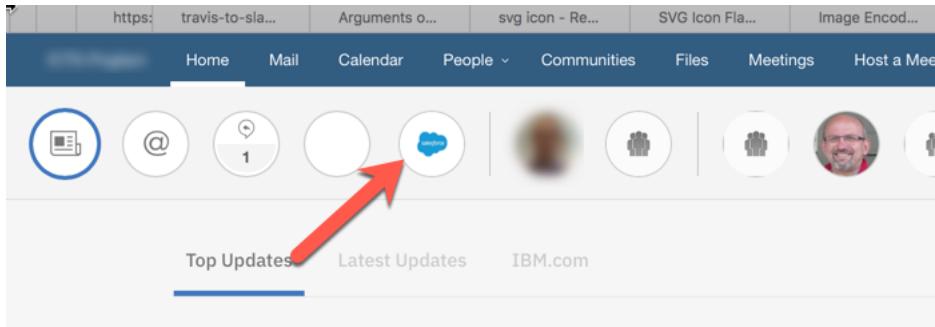
Feel free to explore the code that you just pasted. The complete documentation for that code is available here: https://www-10.lotus.com/ldd/appdevwiki.nsf/xpDocViewer.xsp?lookupName=Dev+Guide+topics#action=openDocument&res_title=Adding_custom_entries_to_Important_to_Me&content=sdkcontent

Verifying

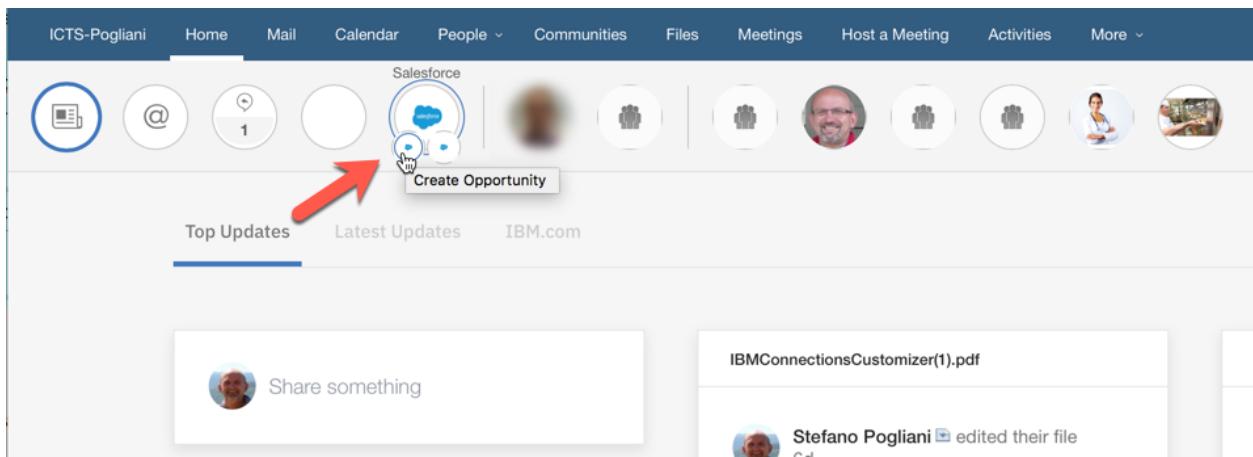
Go back to your OrientMe page by clicking on the **Home** link on the top Menu bar:

The screenshot shows the OrientMe application's main menu bar at the top. The "Home" link is highlighted with a red arrow pointing to it. Below the menu bar, there is a sidebar on the left containing links like "Personal", "User Accounts", "Subscriptions", "Announcements", "Internal Apps", and "Order History". The main content area displays a list of "Apps" with a "New App" button. A tooltip above the apps says: "Info: To create classic Organization Extensions, click here".

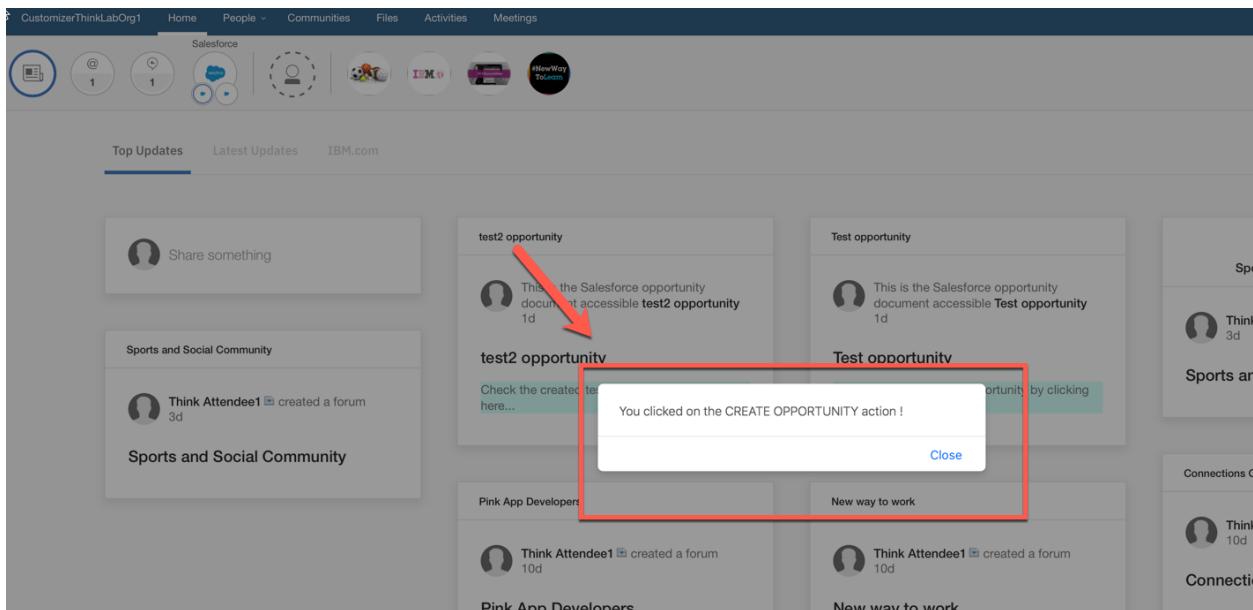
The new “bubble” now appears.



Now, click on the “Create Opportunity” action bubble as shown here:



And you will see a default script taking place:



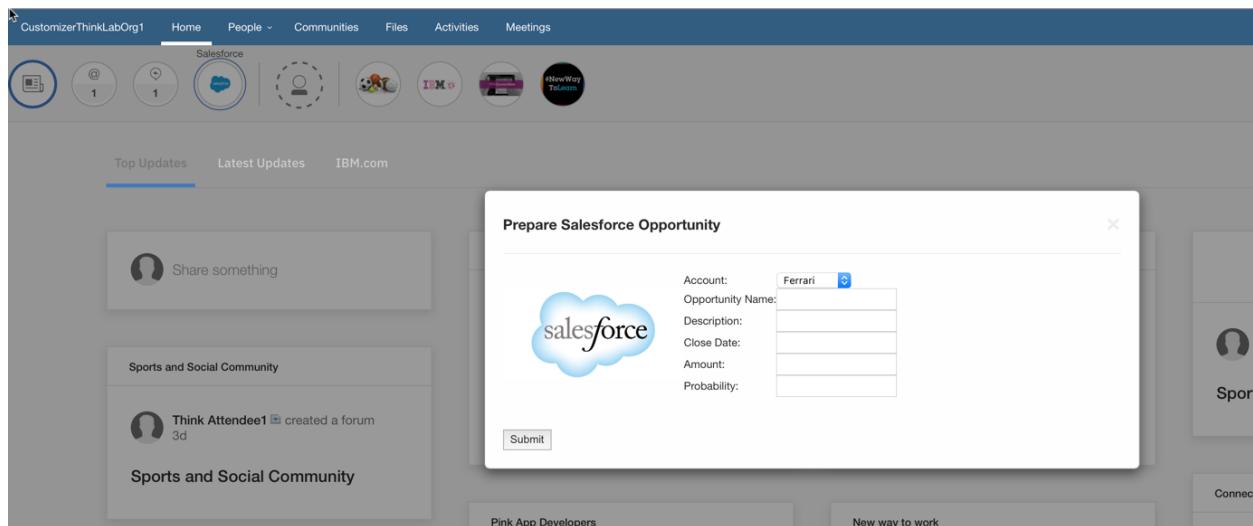
In the next labs, we will create the magic that connects us to the Salesforce APIs.

Lab 3 Create a Salesforce Oppy from IBM Connections

In this example we will see how to create a Salesforce Opportunity using the “Create” action we previously added to our “bubble”

What we want to achieve

Once we finish this third lab, a new popup window will be shown from within the IBM Connections OrientMe page; this popup collects the information that it will use to finally create a new Salesforce opportunity.



Preparation Activities

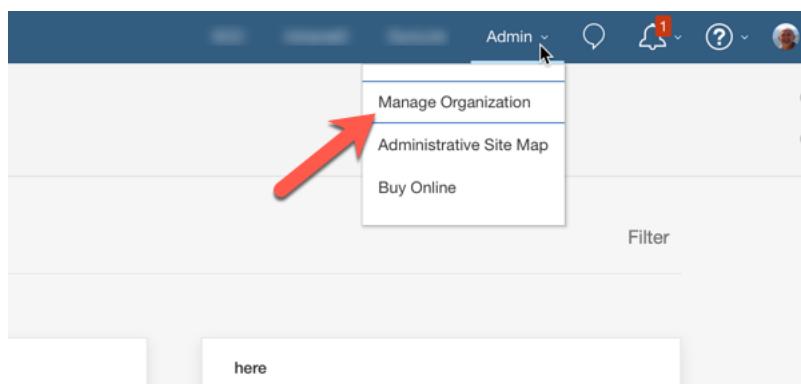
No specific preparation is required.

Environment SetUp

Open a new window on your browser and log into IBM Connections

<https://apps.na.collabserv.com> providing the credentials the instructors gave you.

Navigate to the Administration screen:



and, once there, go to the “Organization Extensions” panel:

The screenshot shows the 'User Accounts' panel of the IBM SmartCloud administration interface. The sidebar on the left lists various management options under 'Personal' and 'System Settings'. A red arrow points to the 'Organization Extensions' link in the 'Personal' section. The main content area displays a list of user accounts with columns for Name and Email. Each user entry includes a small dropdown icon.

Name	Email
Amadou Alain	[REDACTED]
Charles Bounar	[REDACTED]
Christina Milan	[REDACTED]
Ed Blanks	[REDACTED]
Ed El-Amon	[REDACTED]
Frank Adams	[REDACTED]
Gail Chao	[REDACTED]

Then move to the **New Apps Manager** as shown below:

Administration

Personal

- My Account Settings

User Accounts

- Organization Account Settings
- Partitions
- Subscriptions
- Announcements
- Internal Apps
- Order History

Organization Extensions

- Connections Mobile App Management
- Chat and Meetings
- Apps

System Settings

- Security
- Theme
- IBM SmartCloud Notes
- Profile Customization

Applications For [REDACTED]

Info: To create Connections Pink applications, view the [new Apps Manager](#)

Add Export Delete Filter by Service:

Preferences

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

This time we will not create a new “*Registry Application*”, but we will modify an existing one. Click on the “**Salesforce Extension**” we created in the previous exercise.

Home People Communities Files Activities Meetings Admin

Info: To create classic Organization Extensions, click here

Apps All Apps

New App

C FlipCard Customization Sample Service: Customizer Renders Communities as flip cards rather than lists ✗ Disabled	C Introductory Customizer App Service: Customizer Inserts text into IBM Connections Homepage ✗ Disabled	C News River Sectioned Sample Service: Customizer Draws news river in sections surrounded with Pink border ✗ Disabled
C Profiles Customization Sample Service: Customizer Alternative Profiles Page Design & Layout ✗ Disabled	I SalesForce Extension Service: ImportantToMe SalesForce Extension ✓ Enabled	C SalesForce scripts Service: Customizer SalesForce scripts ✓ Enabled
C Visual Update I for IBM Connections Service: Customizer Customizer extension to re-theme IBM Connections. ✗ Disabled	O Orient Me for Salesforce Service: OrientMe Modifications to Orient Me page for the Salesforce Demo ✓ Enabled	

This opens the configuration for the “**Salesforce Extension**” application. Click on the “**Code Editor**” button as shown here:

```

1  {
2    "id": "6e44a0d0-2856-11e8-8f95-1fa2738fa741",
3    "name": "SalesforceExtension",
4    "title": "SalesForce Extension",
5    "description": "SalesForce Extension",
6    "services": [
7      "ImportantToMe"
8    ],
9    "extensions": [
10   {
11     "id": "5d0b088b-60dd-42cc-84bc-7053804b9122",
12     "name": "CustomBubble",
13     "type": "com.ibm.itm.entry.custom",
14     "payload": {
15       "label": "Salesforce.com",
16       "name": "Salesforce",
17       "expires": "2018-12-12",
18       "show": true,
19       "showHighlight": false,
20       "script": {
21         "source": "https://apps.na.collaberv.c",
22         "function": "__salesforceDemo"
23       },
24       "icon": {
25         "url": "data:image/jpeg;base64,/9j/4AAQ
...nA. "cna...com"

```

Now, on the right panel you will see the JSON definition of the Registry Application. Search for the “Create” Action section (should be around line XXXXX).

Modify the value for the **function attribute** of the action from `__createOppy_stub` to `__createOppy`.

```

27   },
28   "initialsImg": {
29     "type": "jpg",
30     "localRefName": "initials_people"
31   },
32   "actions": [
33     {
34       "type": "create",
35       "visibleEleId": "bgdiv",
36       "enabled": true,
37       "script": {
38         "source": "https://apps.na.collaberv.com/files/customizer/sale",
39         "function": "__createOppy"
40       },
41       "icon": {
42         "type": "png",
43         "data": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/7QBt
44       },
45       "label": "Create Opportunity"
46     },
47     {
48       "type": "show",
49       "icon": {
50         "type": "png",
51         "data": "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/7QBt

```

Then press the “**Save**” button:

```

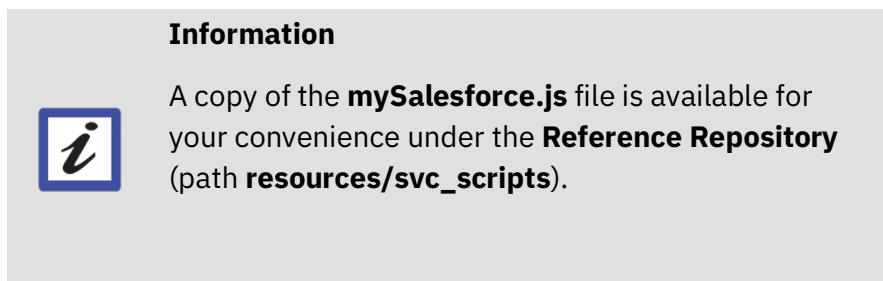
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50
    "initialsImg": {
      "type": "jpg",
      "localRefName": "initials_people"
    },
    "actions": [
      {
        "type": "create",
        "visibleEleId": "bgdiv",
        "enabled": true,
        "script": {
          "source": "https://opps.ng.collabobserv.com/files/function:_createOppy"
        },
        "icon": {
          "type": "png",
          "data": "data:image/jpeg;base64,/9j/4AAQSkZJRgA
        },
        "label": "Create Opportunity"
      },
      {
        "type": "show",
        "icon": {
          "type": "png",
        }
      }
    ]
  }
}

```

What have we done here?

The javascript code inside the **mySalesforce.js** script defines several functions.

One of these functions is `__createOppy`. Look at its code:



```

function __createOppy() {
  _getSFDCAccounts();
}

```

Well, it simply invokes the `_getSFDCAccounts` function, right?

Let's now look at the code for the `_getSFDCAccounts` function.

```

function _getSFDCAccounts() {
    var xmlhttpReq = false;
    if (window.XMLHttpRequest) {
        // Mozilla/Safari
        xmlhttpReq = new XMLHttpRequest();
    } else if (window.ActiveXObject) {
        // IE
        xmlhttpReq = new ActiveXObject("Microsoft.XMLHTTP");
    }
    xmlhttpReq.open('GET',
        'https://service.us.apiconnect.ibmcloud.com/gws/apigateway/api/543aba51314bff5bc7db871ec21796e77ad958439786c0a57a',
        true);
    xmlhttpReq.setRequestHeader('accept', 'application/json');
    //xmlHttpReq.setRequestHeader('Content-Type', 'application/json');
    xmlhttpReq.setRequestHeader('x-ibm-client-id', '954ca1f5-b101-402e-877b-82e3a6ab264f');
    xmlhttpReq.onreadystatechange = function () {
        if (xmlhttpReq.readyState == 4) {
            if ((xmlhttpReq.status == 200)) {
                //alert(xmlhttpReq.responseText);
                __buildCreateOppyScreen(xmlhttpReq.responseText);
            } else {
                alert('Unfortunately there was an ERROR ' + xmlhttpReq.status + ' / ' + xmlhttpReq.statusText);
            }
        }
    };
    xmlhttpReq.send();
}

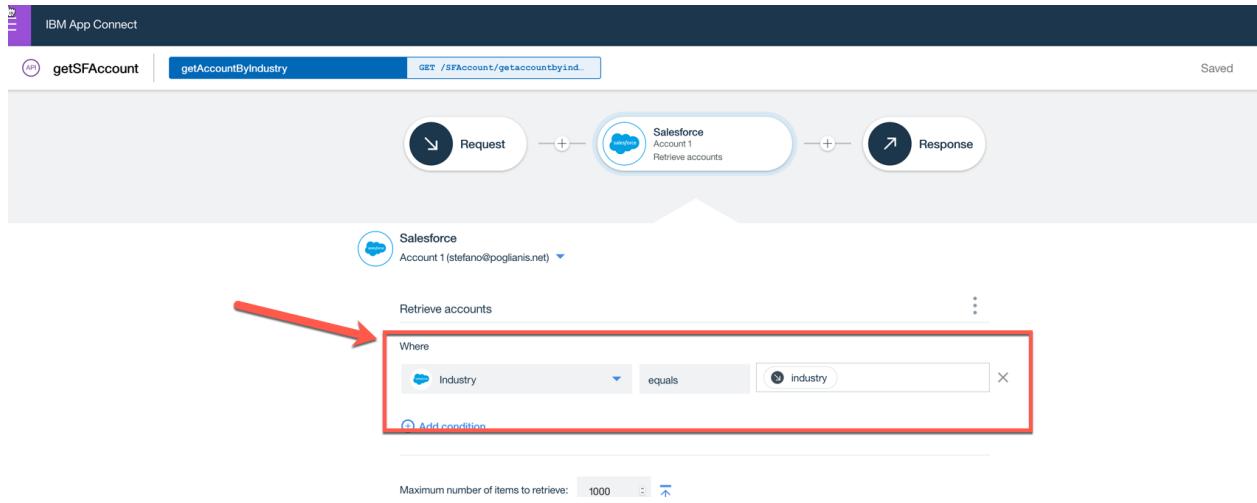
```

In addition to some vanilla code which defines an XMLHttpRequest object, configures it and executes it, there are two important things to note:

1. The URL for the GET operation.

It points to an '**IBM App Connect**' flow which retrieves the list of the Accounts within the "Technology" domain for a specific instance of Salesforce.

The instructor will show live this part. As a documentation you can refer to the following image:



2. Once '**IBM App Connect**' successfully returns the list, it passes the result to another function, `__buildCreateOppyScreen`, that we will analyze immediately.

The code in the `__buildCreateOppyScreen` function dynamically builds a form that:

- Displays a dropdown associated to the Accounts retrieved by `__getSFDCAccounts` function
- Collects (via standard HTML `<input>` elements) the information required to create a Salesforce opportunity associated to one of the Accounts
 - Name of the opportunity
 - Description
 - Close Date
 - Amount
 - Probability
- Associates the **Click event** for the **Submit button** to the execution another ‘**IBM App Connect**’ flow (via the function `__sendCreateOppy`)

```

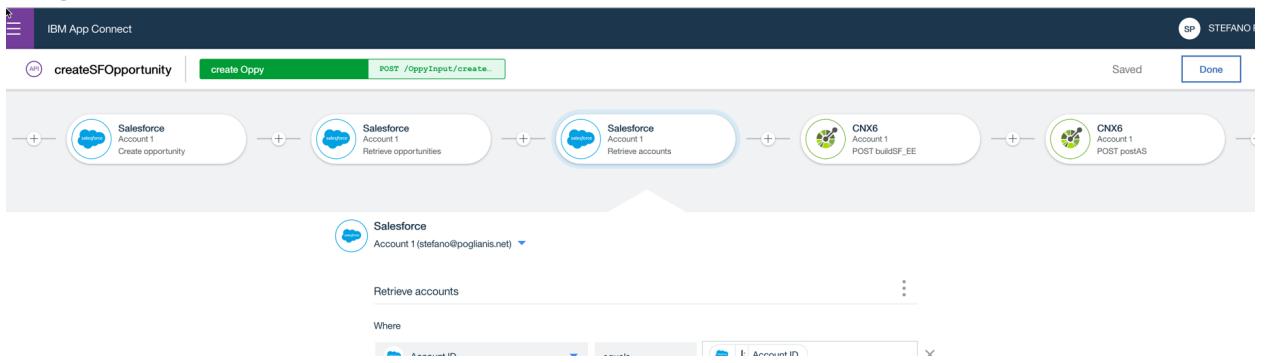
var _button1 = document.createElement("input");
_button1.setAttribute('type', 'button');
_button1.setAttribute('name', '_btn1');
_button1.setAttribute('value', 'Submit');
_button1.addEventListener("click", function(){
  //
  // Build the Message
  //
  var theMsg = {};
  //
  // Opportunity INFOs
  //
  theMsg.accountID  = _select1.value; //""001r00001aoCN";
  theMsg.name       = document.getElementById('_input2').value;
  theMsg.description = document.getElementById('_input3').value;
  theMsg.closedate  = document.getElementById('_input4').value; //"2021-02-01T01:12:41.460Z";
  theMsg.amount     = document.getElementById('_input5').value;
  theMsg.probability = document.getElementById('_input6').value;
  //
  // user
  //
  theMsg.userid    = window.user.id;
  //
  // Go with HTTP
  //
  __sendCreateOppy('https://service.us.apiconnect.ibmcloud.com/gws/apigateway/api/543aba51314bff5bc7db871ec21796e77ad958439786c0a57a776b6943de6aac/FZ570E/OppyInput', theMsg);
});

```



3. The `__sendCreateOppy` function will simply builds an `XmlHttpRequest` object, invokes a POST operation on the ‘**IBM App Connect**’ flow and displays a result to the user.

The instructor will show live this part. As a documentation you can refer to the following image:



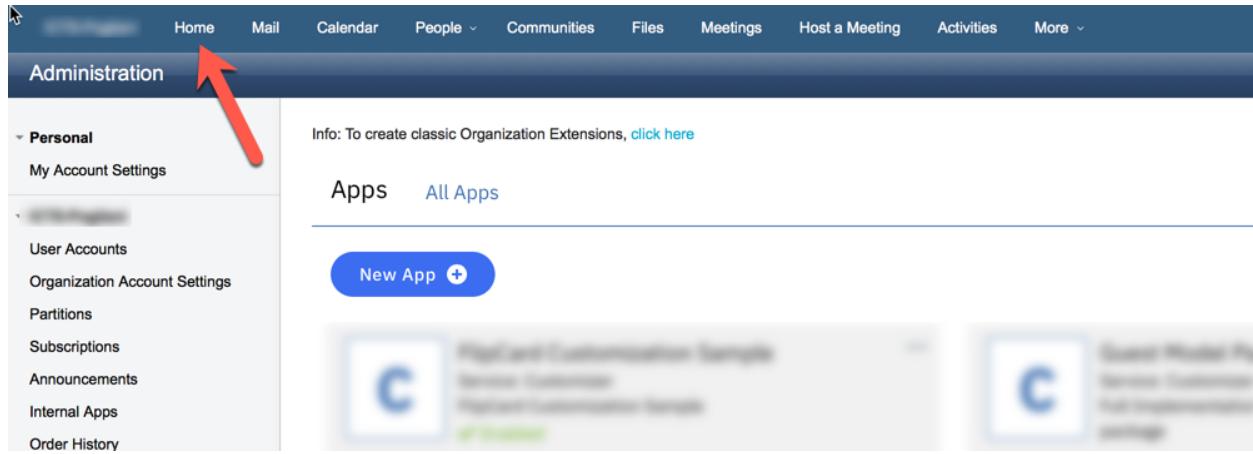
- a. The first node creates the Salesforce opportunity using the information we provided in **IBM Connections Cloud**
- b. The second node retrieves the details of the newly created opportunity

- c. The third node retrieves the information about the Account for which the opportunity has been created
- d. The fourth node prepares the information to be sent to **IBM Connections Cloud**.
- e. The fifth node actually send the information to **IBM Connections Cloud** (we will see this in the next exercise)

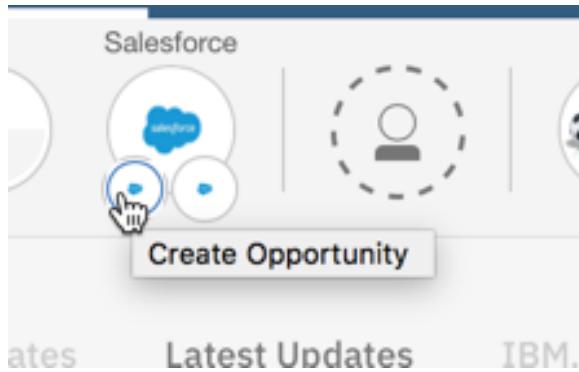
Verifying

Now it is time to try yourself!

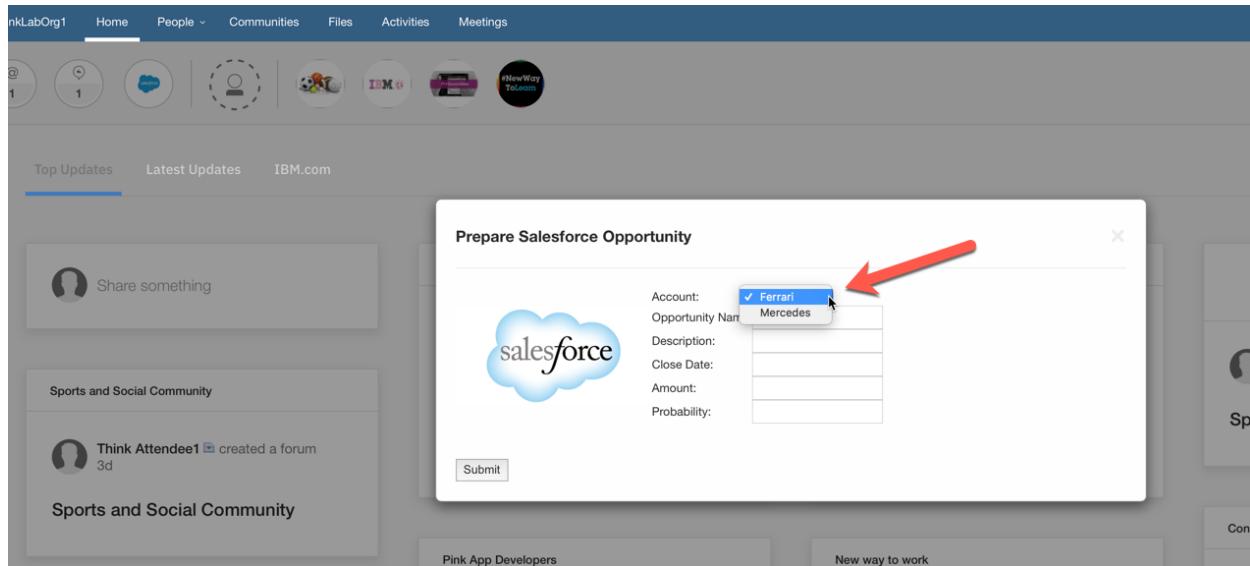
Go back to your OrientMe page by clicking on the **Home** link on the top Menu bar:



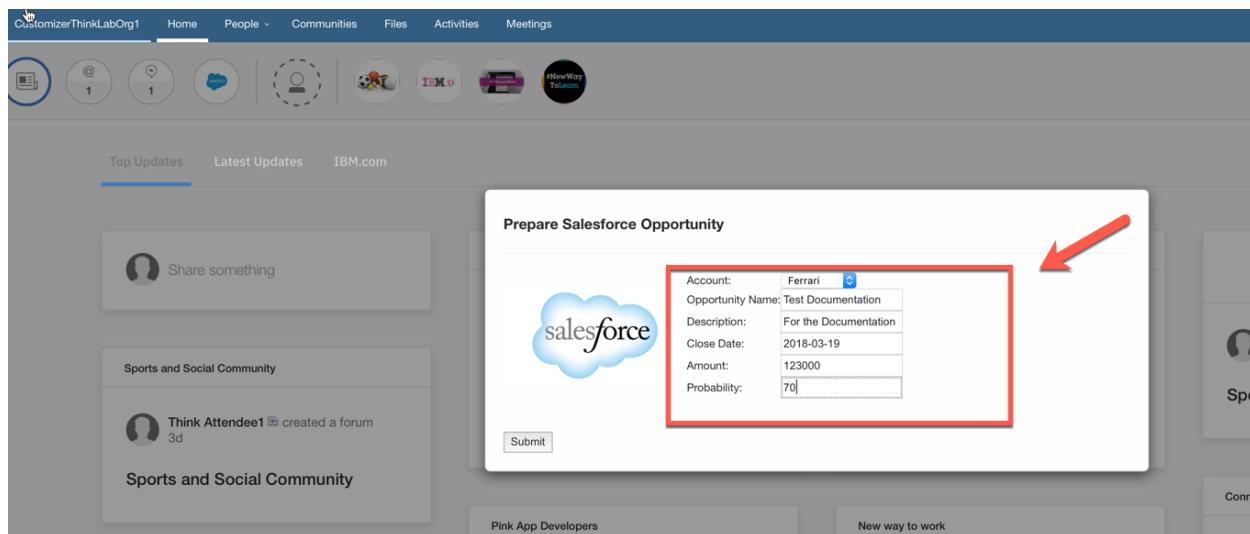
Click on the “Create Opportunity” Action as shown here:



You will see the new form appearing. Note that the dropdown is already filled with the two accounts (Ferrari and Mercedes) available in the Test Salesforce instance.



Choose one of the Accounts and then fill the details for the opportunity as shown here:



Important

The code which manages the <input> fields in the form has not been developed to be production ready 😊



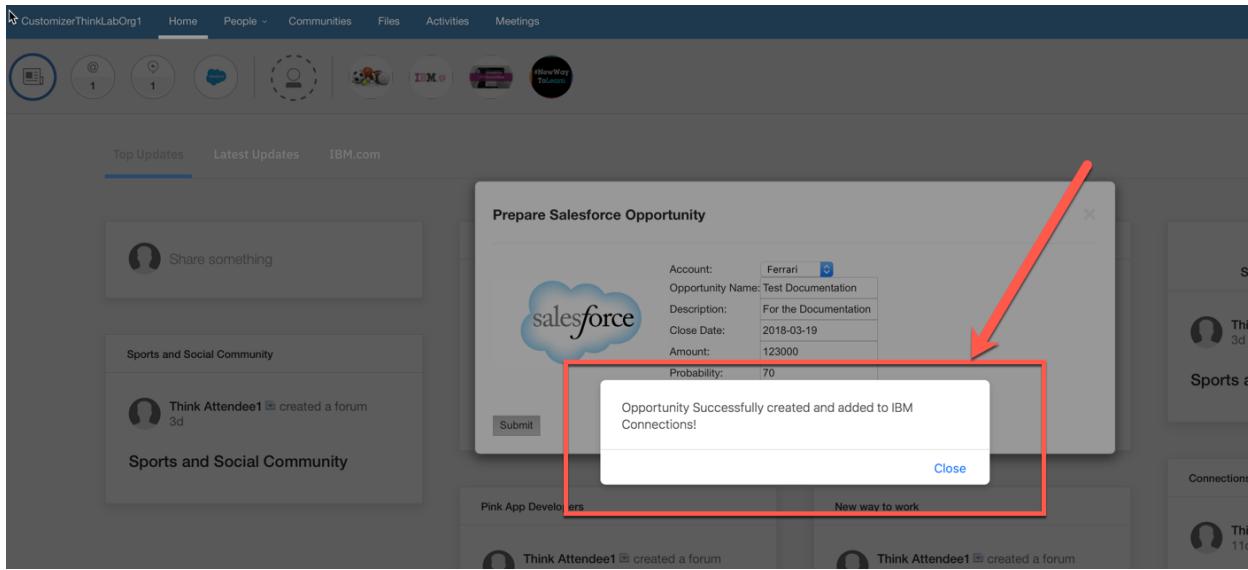
So, be careful entering the information. We really ask that you enter:

- The **Close Date** in the format yyyy-mm-dd
- The **Amount** as a numeric value
- The **Probability** as a positive integer < 100

Click the **Submit button** and wait a couple of seconds:

The screenshot shows a web-based application interface. At the top, there's a navigation bar with links for Home, People, Communities, Files, Activities, and Meetings. Below the navigation bar, there are several circular icons representing different features or social connections. The main content area has tabs for Top Updates and Latest Updates, with IBM.com selected. A prominent modal window titled "Prepare Salesforce Opportunity" is open. Inside the modal, there's a "salesforce" logo. The form fields are as follows:
- Account: Ferrari
- Opportunity Name: Test Documentation
- Description: For the Documentation
- Close Date: 2018-03-19
- Amount: 123000
- Probability: 70
At the bottom of the modal is a "Submit" button, which is highlighted with a red arrow pointing towards it.

to get the response from '**IBM App Connect**' as shown here:



Lab 4 View the Salesforce Oppy from IBM Connections

In this example we will see how to create a Salesforce Opportunity using the “**Create**” action we previously added to our “bubble”

What we want to achieve

Once we finish this third lab, a new popup window will be shown from within the IBM

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