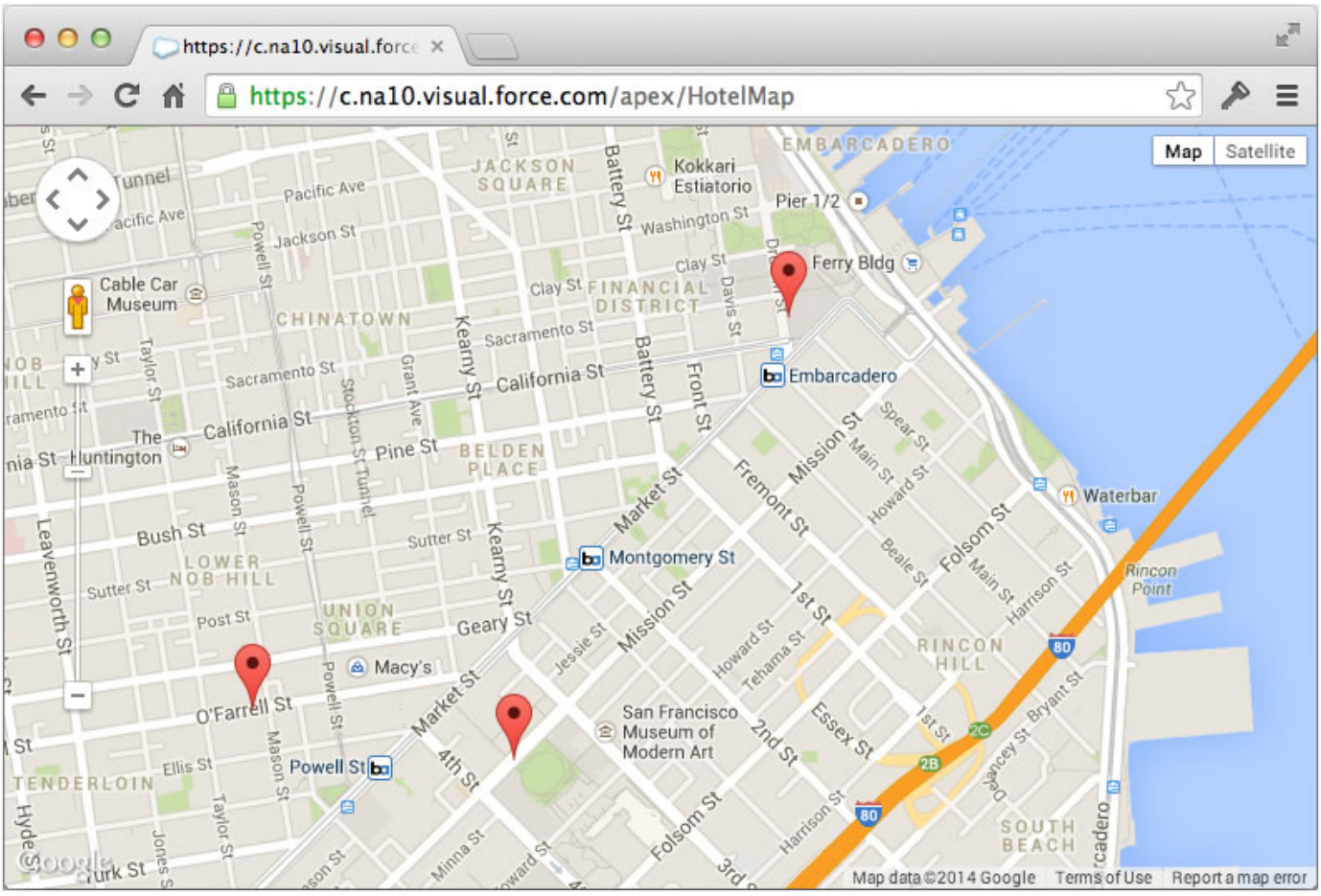
Module 3: Using JavaScript in Visualforce Pages

In this module, you create a custom controller with a method that returns a list of conference hotels. You create a Visualforce page that invokes that method using JavaScript Remoting and uses the Google Maps SDK to display the hotels on a map.



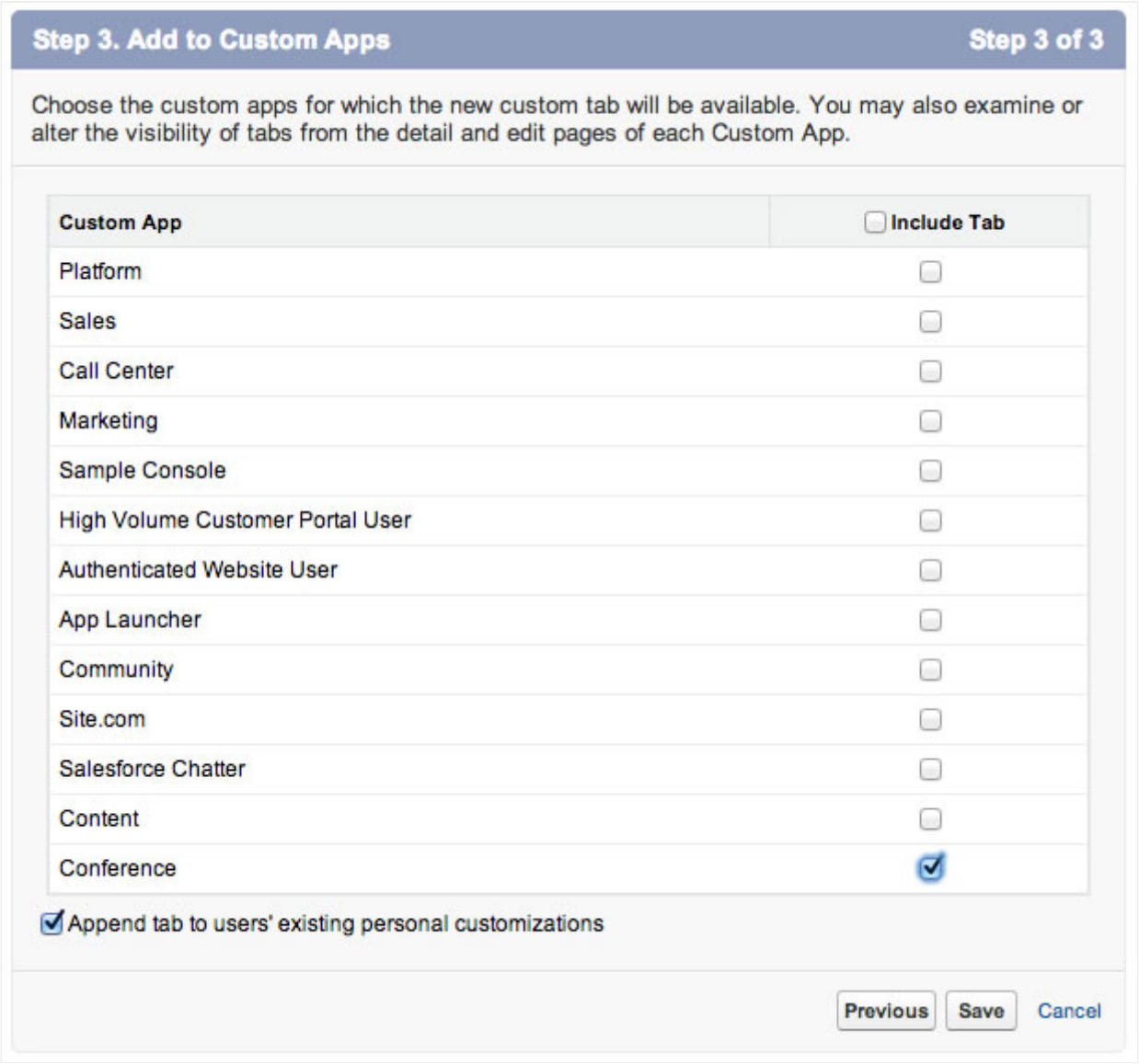
Step 1: Create the Hotel Object

1. In **Setup**, select **Build** > **Create** > **Objects**
2. Click **New Custom Object**, and define the Hotel Object as follows:
    - Label: **Hotel**
    - Plural Label: **Hotels**
    - Object Name: **Hotel**
    - Record Name: **Hotel Name**
    - Data Type: **Text**
3. Click **Save**
4. In the **Custom Fields & Relationships** section, click **New**, and create a **Location** field defined as follows:

- Data Type: **Geolocation**
- Field Label: **Location**
- Latitude and Longitude Display Notation: **Decimal**
- Decimal Places: **7**
- Field Name: **Location**

Click **Next**, **Next**, **Save**

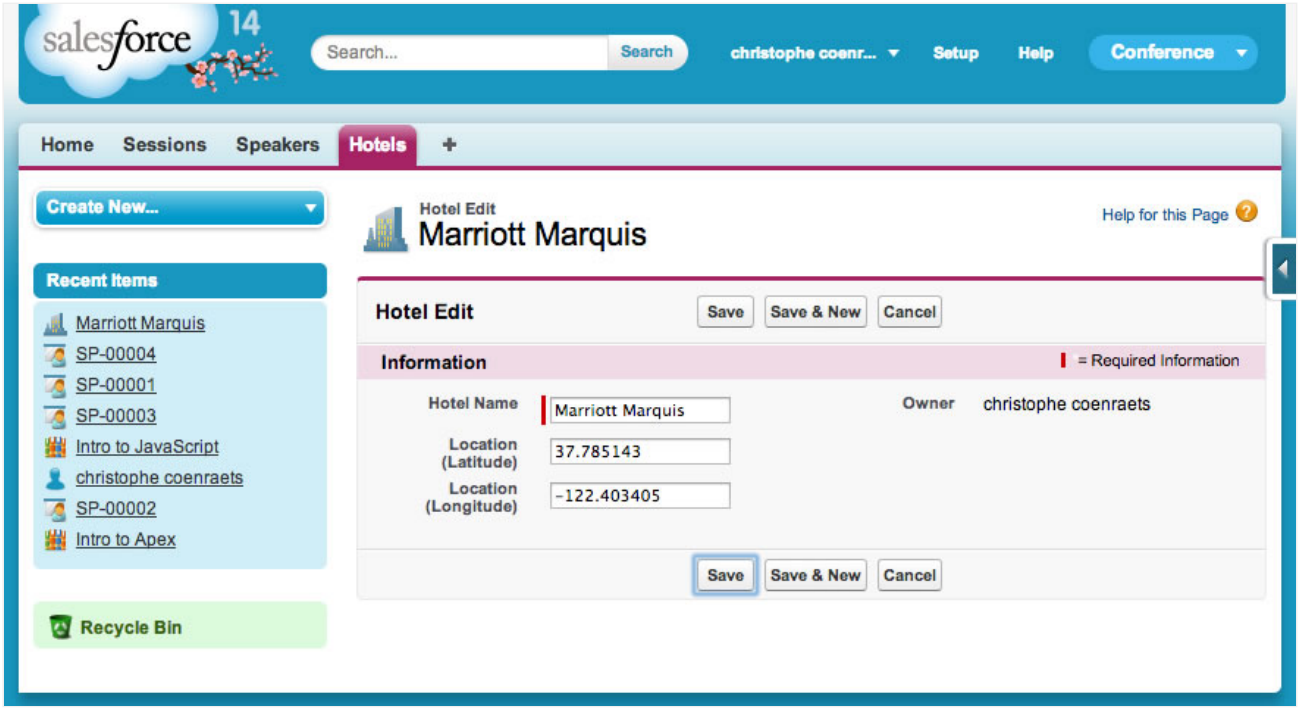
5. Create a Tab for the Hotel object
   - In **Setup**, select **Build** > **Create** > **Tabs**
   - In the **Custom Object Tabs** section, click **New**
   - Select the **Hotel** object and **Building** as the Tab Style Icon
   - Click **Next**, **Next**
   - Uncheck the **Include Tab** checkbox, check the **Conference** checkbox, and click **Save**



6. Enter a couple of hotels with location information. For example:
   - Marriott Marquis (Latitude: 37.785143 Longitude: -122.403405)

- Hilton Union Square (Latitude: 37.786164 Longitude: -122.410137)
- Hyatt (Latitude: 37.794157 Longitude: -122.396311)

> Make sure you include the minus sign when entering the longitude.



Step 2: Create the HotelRemoter Controller

1. In the Developer Console, select **File** > **New** > **Apex Class**, specify **HotelRemoter** as the class name and click **OK**
2. Implement the class as follows:

```
global with sharing class HotelRemoter {

    @RemoteAction
    global static List<Hotel__c> findAll() {
        return [SELECT Id, Name, Location__Latitude__s, Location__Longitude__s
                    FROM Hotel__c];
    }

}
```

3. Save the file

Step 3: Create a Visualforce Page with Google Maps

1. In the Developer Console, select **File** > **New** > **Visualforce Page**, specify **HotelMap** as the page name and click **OK**

2. Implement HotelMap as follows:

```
<apex:page sidebar="false" showheader="false">

<head>
<style type="text/css">
  html { height: 100% }
  body { height: 100%; margin: 0; padding: 0 }
  #map-canvas { height: 100% }
</style>
<script src="https://maps.googleapis.com/maps/api/js?sensor=false (https://maps.googlea
pis.com/maps/api/js?sensor=false)"></script>
<script>
var map;

function initialize() {
    var mapOptions = {
        center: new google.maps.LatLng(37.784173, -122.401557),
        zoom: 15
    };
    map = new google.maps.Map(document.getElementById("map-canvas"), mapOptions);
}

google.maps.event.addDomListener(window, 'load', initialize);

</script>
</head>
<body>
  <div id="map-canvas"/>
</body>

</apex:page>
```

3. Save the file
4. Click the **Preview** button (upper left corner) to test the HotelMap page in the browser

Step 4: Display the Hotels on the Map

1. Assign **HotelRemoter** as the controller for the **HotelMap** Visualforce page:

```
<apex:page sidebar="false" showheader="false" controller="HotelRemoter">
```

2. Define a function named loadHotels() implemented as follows (right after the initilize() function):

```
function loadHotels() {
    Visualforce.remoting.Manager.invokeAction('{!$RemoteAction.HotelRemoter.findAll}',
        function(result, event){
            if (event.status) {
                for (var i=0; i<result.length; i++) {
                    var id = result[i].Id;
                    var name = result[i].Name;
                    var lat = result[i].Location__Latitude__s;
                    var lng = result[i].Location__Longitude__s;
                    addMarker(id, name, lat, lng);
                }
            } else {
                alert(event.message);
            }
        },
        {escape: true}
    );
}
```

3. Define the addMarker() function implemented as follows (right after the loadHotels() function):

```
function addMarker(id, name, lat, lng) {
    var marker = new google.maps.Marker({
            position: new google.maps.LatLng(lat, lng),
            map: map,
            title: name
    });
    google.maps.event.addListener(marker, 'click', function(event) {
        window.top.location = '/' + id;
    });
}
```

4. Invoke loadHotels() as the last line of the **initialize()** function:

```
loadHotels();
```

5. Save the file
6. Click the **Preview** button (upper left corner) to test the HotelMap page in the browser. You should now see markers on the map representing the hotels you entered in Step 1.

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MODULES