

Salesforce Cloud Integration with PHP

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Introduction

PHP has proved itself as one of the major web development contributor in the world. Lots of websites has been built using PHP programming language. On other hand Salesforce Cloud is a new aged Customer Relation Management (CRM) platform for supercharging every part of the company that interacts with customers- including Sales, Marketing, customer Service and many more.

Salesforce Force.com platform supports several API's including SOAP and REST API to integrate Salesforce with other languages like Java, Dot.Net, PHP and many more.



Business Requirement

BISP is an Online Training + Consulting company. BISP Solutions Inc. USA was formed in 2012 with the aim of providing affordable Oracle Cloud and BI Solution to companies who are looking for specialized Cloud knowledge without spending top dollars. BISP provides one-stop solution to Business analytics, Oracle Cloud solution stack. BISP was formed by individuals who are certified Professionals and have 15+ years of experience in Oracle BI Solution over wide range of domains. BISP provides expert technical and functional sources who thoroughly understand Oracle Cloud technologies. With proper design framework and BI expertise it enhances financial and operational performance.

In order to get new leads BISP solutions prepared website www.bisptrainings.com and integrate it with backend database to capture customer data using a contact us form. To serve client/customers in more fast and efficient way BISP started using Salesforce CRM. Till now Marketing executives need to enter data manually into Salesforce Objects (Mainly Lead Object). BISP wants to make this process automated specially capturing data into Salesforce and sending acknowledgement email.

Possible Solutions:

There are multiple solutions to complete their task (**3 Major Solutions mentioned**)

Solution 1: User Third Party tools to perform Integration between BISP website database and Salesforce App and schedule it.

Solution 2: Use Python to integrate both BISP website database and Salesforce APP using REST-API. **For this a person must have knowledge of Python as well.**

Solution 3: Using PHP toolkit provided by Salesforce to Support PHP Integration (**Fast and Easy**).

Based on their requirement and effective solutions we will go with **Solution 3**.

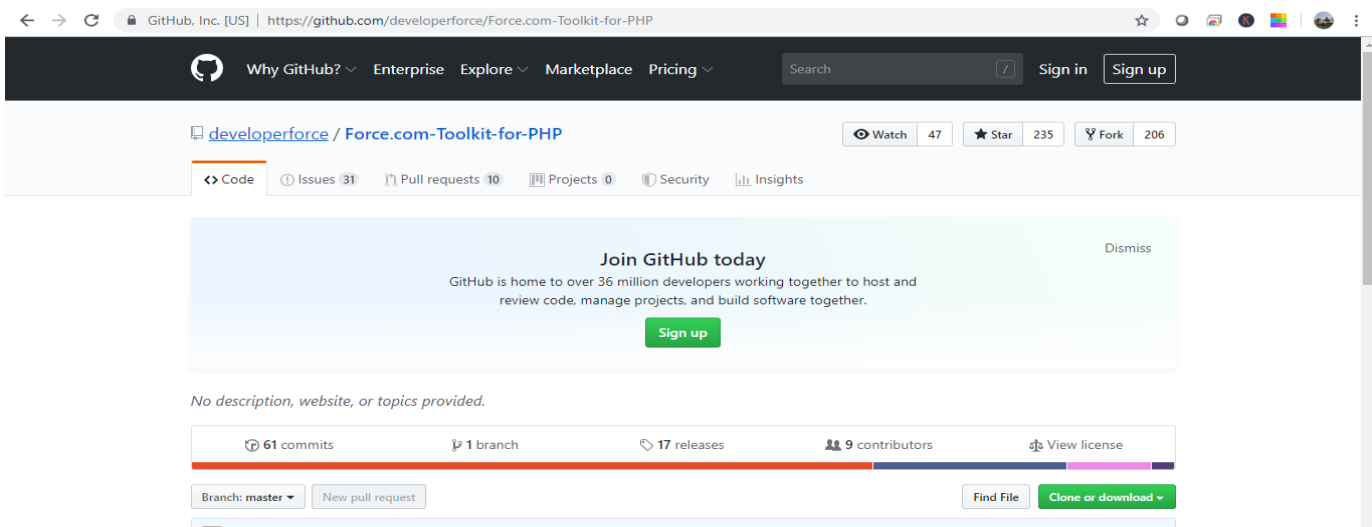
Note: In this document we explain step by step Integration between PHP and Salesforce (To Capture New Leads) using PHP Toolkit.

Steps to integrate:

Download PHP toolkit

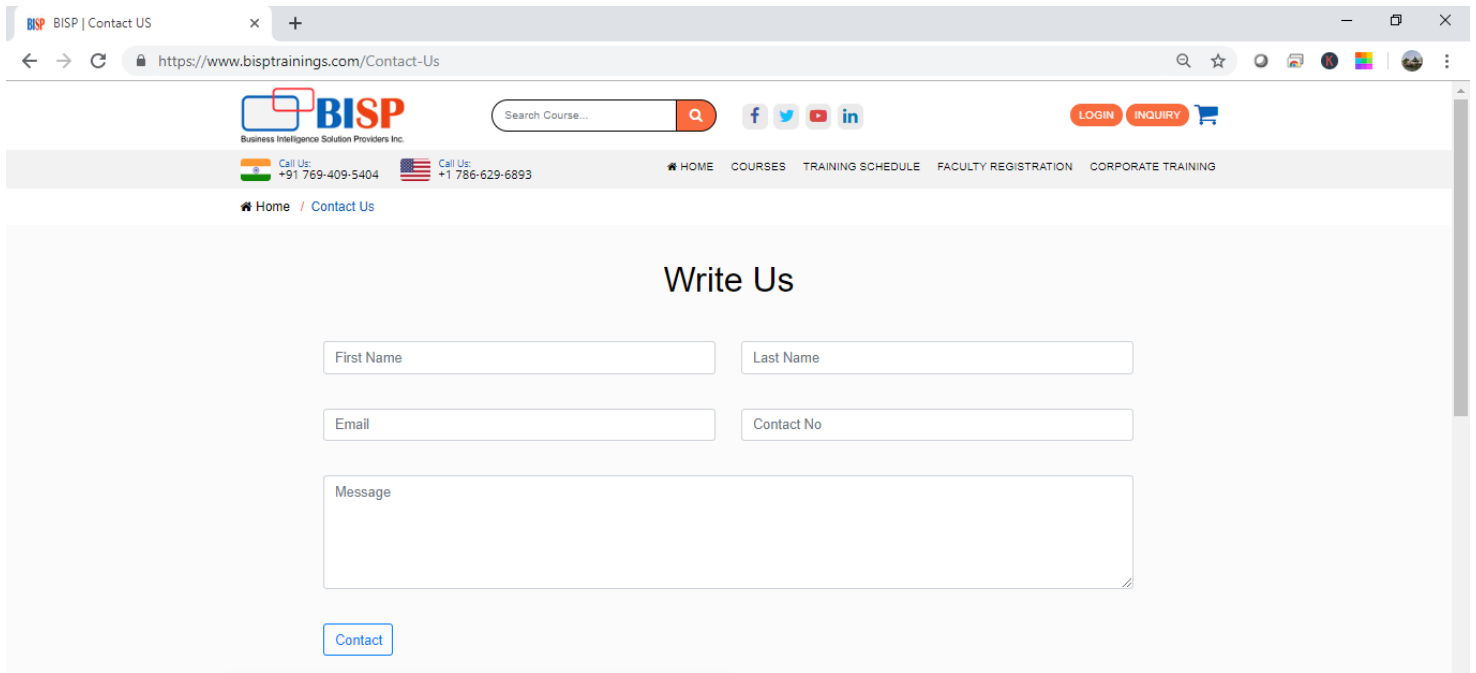
We can download PHP toolkit from below URL-

GITS- <https://github.com/developerforce/Force.com-Toolkit-for-PHP>



Click on Clone or download button and download Zip File and save it on local drive.

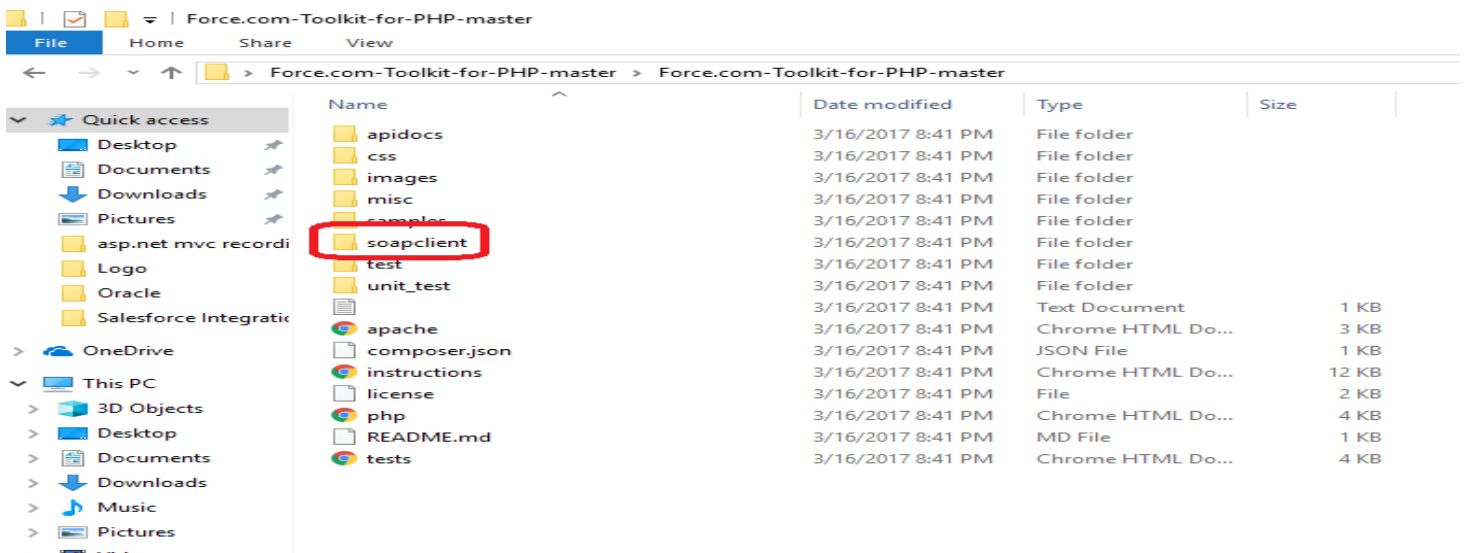
BISP Trainings Contact-US Page



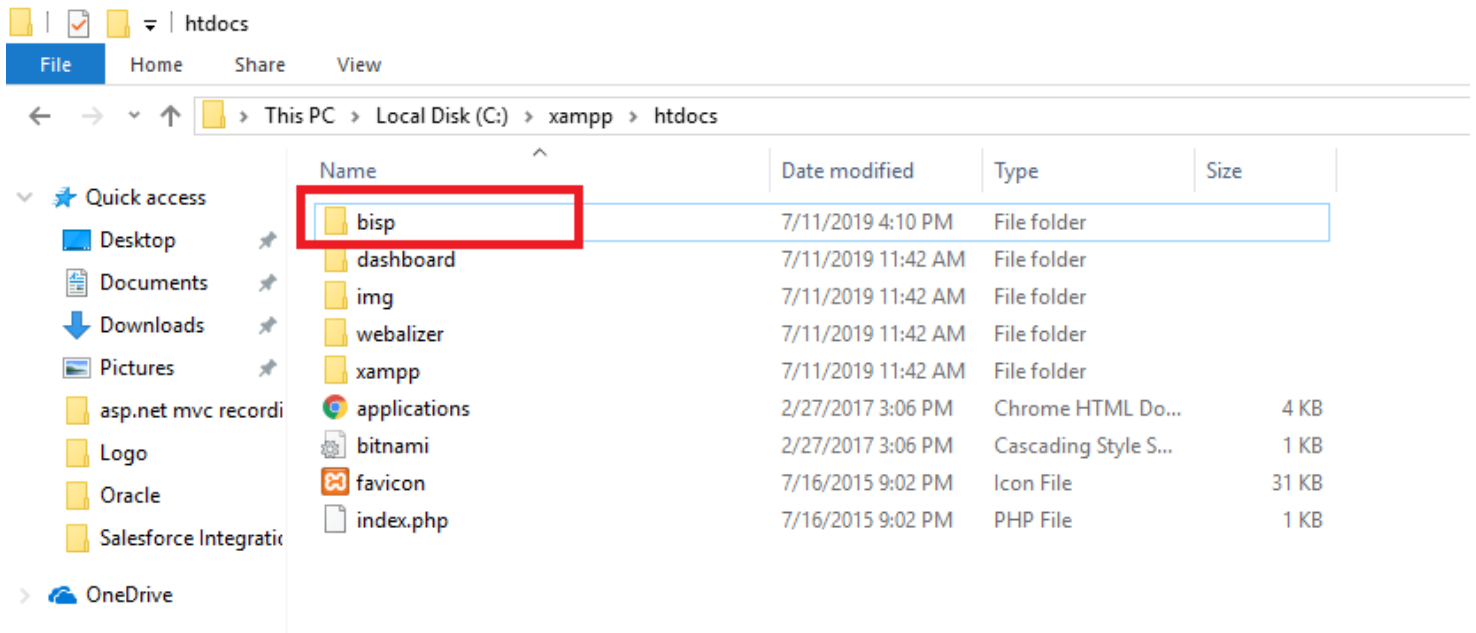
This page was designed in PHP and as per requirement once user fill form and submit button need to generate new lead in Salesforce Lead Object.

Steps to use PHP toolkit for Integration

Step 1: Unzip php toolkit download in previous step and look for Soapclient Folder



Step 2: Copy Soapclient Folder from PHP toolkit extracted directory and paste it into Project Directory (My project directory is C:\Xampp\htdocs\bisp)



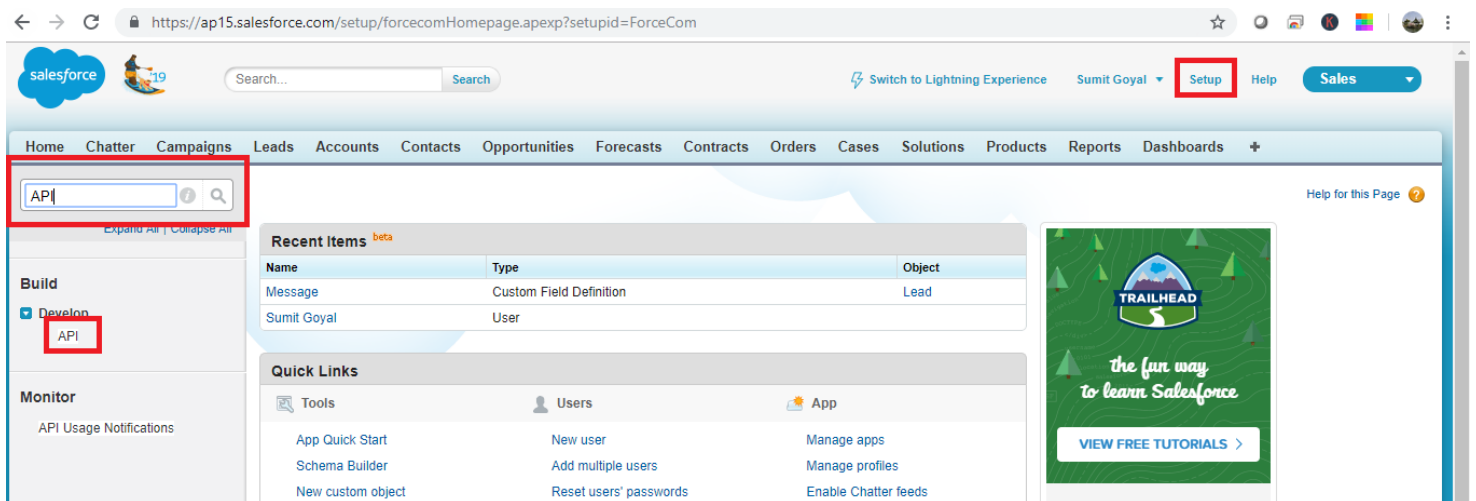
Download "Partner WSDL" file from Salesforce

In order to integrate PHP with Salesforce using toolkit WSDL file will be required. (Partner WSDL or Enterprise WSDL).

Steps to Download WSDL from Salesforce

Step 1: Login into Salesforce Org. www.salesforce.com

Step 2: Click on Setup → in Search box on right side Enter "API" → Under Build select API



Step 3: Click on Generate Partner WSDL

API WSDL

Salesforce's WSDL allows you to easily integrate salesforce.com with your applications, and to build new applications that work with salesforce.com. To get started, download a WSDL file to a place accessible to your development environment. For complete documentation, sample code, and developer community, visit <http://developer.salesforce.com/>

WSDL and Client Certificates

Enterprise WSDL
A strongly typed WSDL for customers who want to build an integration with their salesforce.com organization only.
[Generate Enterprise WSDL](#)

Partner WSDL
A loosely typed WSDL for customers, partners, and ISVs who are building client applications for multiple organizations. It can be used to access data within any organization.
[Generate Partner WSDL](#)

Step 4: On next Tab Xml file will open.

Right click anywhere within document and click on Save as → give name as "PartnerWSDL.xml"

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

<!--
Salesforce.com Partner Web Services API Version 46.0
Generated on 2019-07-16 06:55:54 +0000.

Copyright 1999-2019 salesforce.com, inc.
All Rights Reserved
-->
<definitions xmlns="http://schemas.xmlsoap.org/wsdl/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:fns="urn:fault.partner.soap.sforce.com" xmlns:tns="urn:partner.soap.sforce.com" xmlns:ens="urn:subject.partner.soap.sforce.com" targetNamespace="urn:partner.soap.sforce.com">
  <types>
    <schema xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" targetNamespace="urn:subject.partner.soap.sforce.com">
      <import namespace="urn:partner.soap.sforce.com"/>
      <!-- Dynamic sObject -->
      <complexType name="sObject">
        <sequence>
          <element name="type" type="xsd:string"/>
          <element name="fieldsToNull" type="xsd:string" nillable="true" minOccurs="0" maxOccurs="unbounded"/>
          <element name="Id" type="tns:ID" nillable="true"/>
          <any namespace="##targetNamespace" minOccurs="0" maxOccurs="unbounded" processContents="lax"/>
        </sequence>
      </complexType>
    </schema>
    <schema xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" targetNamespace="urn:partner.soap.sforce.com">
      <import namespace="urn:subject.partner.soap.sforce.com"/>
      <!-- Our simple ID Type -->
      <simpleType name="ID">
        <restriction base="xsd:string">
          <length value="18"/>
          <pattern value="[a-zA-Z0-9]{18}"/>
        </restriction>
      </simpleType>
      <simpleType name="json">
        <restriction base="xsd:string"/>
      </simpleType>
    </schema>
  </types>

```

Step 5: Copy and save WSDL xml file into project directly within htdocs.

Code to save data into Salesforce Lead Object from BISP Contact-US php page.

Below code will help you to store data into Salesforce.

Integration code

```
<? php
```

```
If (isset ($_POST ['Submit']))
```

```
{           //Capture data from Contact-US page fields and store into fields.
```

```
    $fname=$_POST['first_name'];
```

```
    $lname=$_POST['last_name'];
```

```
    $email=$_POST['email'];
```

```
    $phone=$_POST['phone'];
```

```
    $message=$_POST['00N2v00000lcs9G'];
```

```
define("USERNAME", "sumit07092019@bisp.com");
```

```
define("PASSWORD", "Admin12345");
```

```
define("SECURITY_TOKEN", "WYUajxtjAiCo0idqhfrhaU7");
```

```
require_once ('C:\xampp\htdocs\bisp\soapclient\SforcePartnerClient.php');
```

```
//define connection with salesforce
```

```
$mySforceConnection = new SforcePartnerClient();
```

```
$mySforceConnection->createConnection("PartnerWSDL.xml");
```

```
$mySforceConnection->login(USERNAME, PASSWORD.SECURITY_TOKEN);
```

```
//Record array to store data into Object
```

```
$records = array();
```

```
$records[0] = new SObject();
```

```
$records[0]->fields = array(
```

```
    'FirstName' => $fname,
```

```
    'LastName' => $lname,
```

```
    'Phone' => $phone,
```

```
    'Email' => $email,
```



```

'Message_c'=>$message,
'Company' => 'Individual'
);
$records[0]->type = 'Lead';
$response = $mySforceConnection->create($records); //Insert Records and Capture response
echo "Your Details Inserted Successfully";
}
?>

```

Testing:

Steps to test Integration

Step1: Start Xampp Server

XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]

Service	Module	PID(s)	Port(s)	Actions
Apache	Apache	12964 16928	80, 443	Stop Admin Config Logs
MySQL	MySQL			Start Admin Config Logs
FileZilla	FileZilla			Start Admin Config Logs
Mercury	Mercury			Start Admin Config Logs
Tomcat	Tomcat			Start Admin Config Logs

Log Window:

```

12:32:08 PM [Apache] Port 443 in use by "Unable to open process" with PID 14412!
12:32:08 PM [Apache] Apache WILL NOT start without the configured ports free!
12:32:08 PM [Apache] You need to uninstall/disable/reconfigure the blocking application
12:32:08 PM [Apache] or reconfigure Apache and the Control Panel to listen on a different port
12:32:08 PM [main] Starting Check-Timer
12:32:08 PM [main] Control Panel Ready
12:32:10 PM [Apache] Attempting to start Apache app...
12:32:11 PM [Apache] Status change detected: running

```

Step 2: Run application and fill details

Write Us

Step 3: Click on Contact Button.

Result stored into Salesforce lead object.

The screenshot shows the Salesforce interface for a lead. On the left, there is a navigation sidebar with a 'Recycle Bin' button and a list of recent items including 'Sumit Goyal' and 'International Electrical Engineers Association Trade Show - Mar 4-5, 2002'. The main content area features a search bar, a 'Share' button, and a 'Followers' section indicating 'No followers'. Below this, there are tabs for 'Open Activities (0)', 'Activity History (0)', 'Campaign History (0)', and 'HTML Email Status (0)'. The 'Lead Detail' section includes buttons for 'Edit', 'Delete', 'Convert', 'Clone', and 'Find Duplicates'. The lead information is as follows:

Lead Owner	Sumit Goyal [Change]	Phone	+918118861308
Name	Kamal Sharma	Mobile	
Company	Individual	Fax	
Title		Email	
Lead Source		Website	
Industry		Lead Status	Open - Not Contacted
Annual Revenue		Rating	
		No. of Employees	
Address		Current Generator(s)	
Product Interest		Primary	
SIC Code			
Number of Locations			
Created By	Sumit Goyal, 7/16/2019 12:16 AM	Last Modified By	Sumit Goyal, 7/16/2019 12:16 AM
Description			
Message	Interested in Salesforce Integration Cours		