

SYSTINT Project VT2025

Task 4 – Develop a service integration in the cloud

Goal

- To introduce the integration of Salesforce SOAP API with .NET based application
- To demonstrate how cloud-based web services can be consumed in .NET based Windows application
- To demonstrate how Windows applications are authenticated using usernames passwords and security token
- To demonstrate how a reference to web services are added to Windows .NET applications

Learning outcomes

After doing this exercise, students will learn how to integrate Salesforce SOAP APIs with .NET based Windows Applications.

Good Luck!

Workneh

Contents

Part I – Creating Salesforce Developer Account and Generating WSDL	3
1. Integrating salesforce SOAP API using C# .NET	3
1.1 Setting UP Salesforce Developer Account	3
1.3 Changing to classic mode	6
1.4 Changing the default language to English (If the language is already English you can skip this step)	7
1.5 Salesforce and browser options	7
1.6 Enabling developer mode.....	8
1.7 To get support from Salesforce Forum (You can use the forum if you have issues, skip it for now)	9
1.8 Generating security token	9
1.9 Adding Products in Salesforce	10
1.10 Get the WSDL SOAP API	13
Part II	15
2. Creating Integrated Windows Application with Salesforce.....	15
2.1. Creating Integrated Windows .NET Application	15
2.2. Adding the Form1 load code	17
2.3. Adding controls to Form1 designer	21
2.4. Switching between Designer View and Code View	22
2.5. Testing if the code works.....	25

Part I – Creating Salesforce Developer Account and Generating WSDL

1. Integrating salesforce SOAP API using C# .NET

In this exercise, we will learn how to configure Salesforce API to be accessed by clients from outside. We will see how we can consume or use web service APIs built-in salesforce with a windows application. ASP.NET, Mobile, and java based applications can also be used to consume salesforce services.

Before interacting with salesforce, one needs to have a Salesforce developer account:

- username and password
- Security Token
- SOAP API (WSDL file)

1.1 Setting UP Salesforce Developer Account

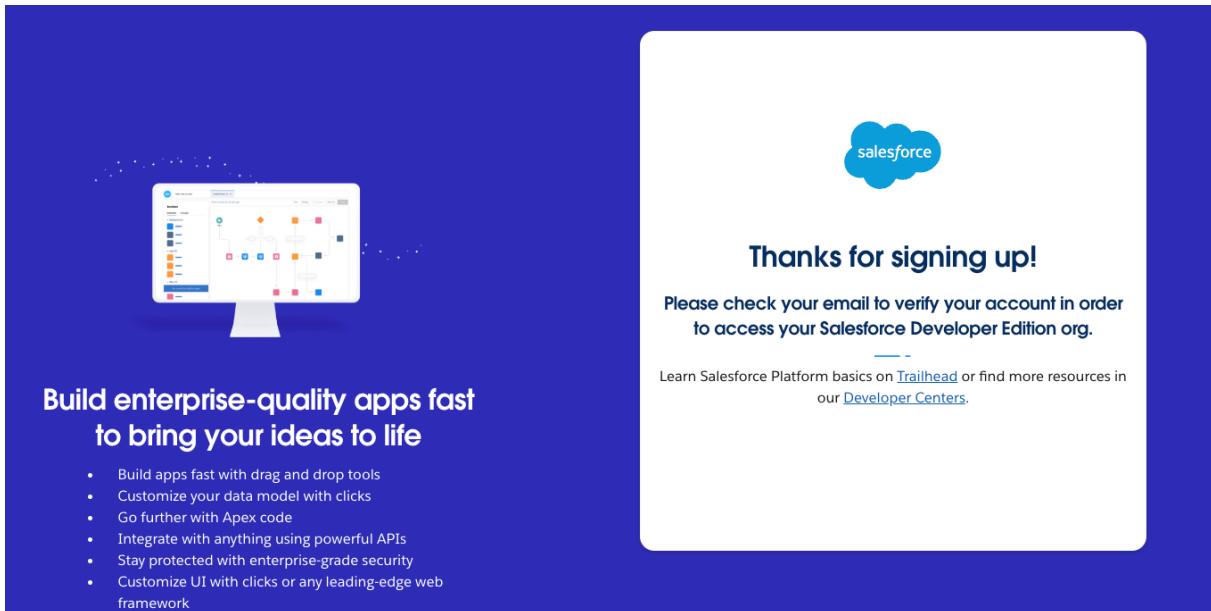
1.2

Steps

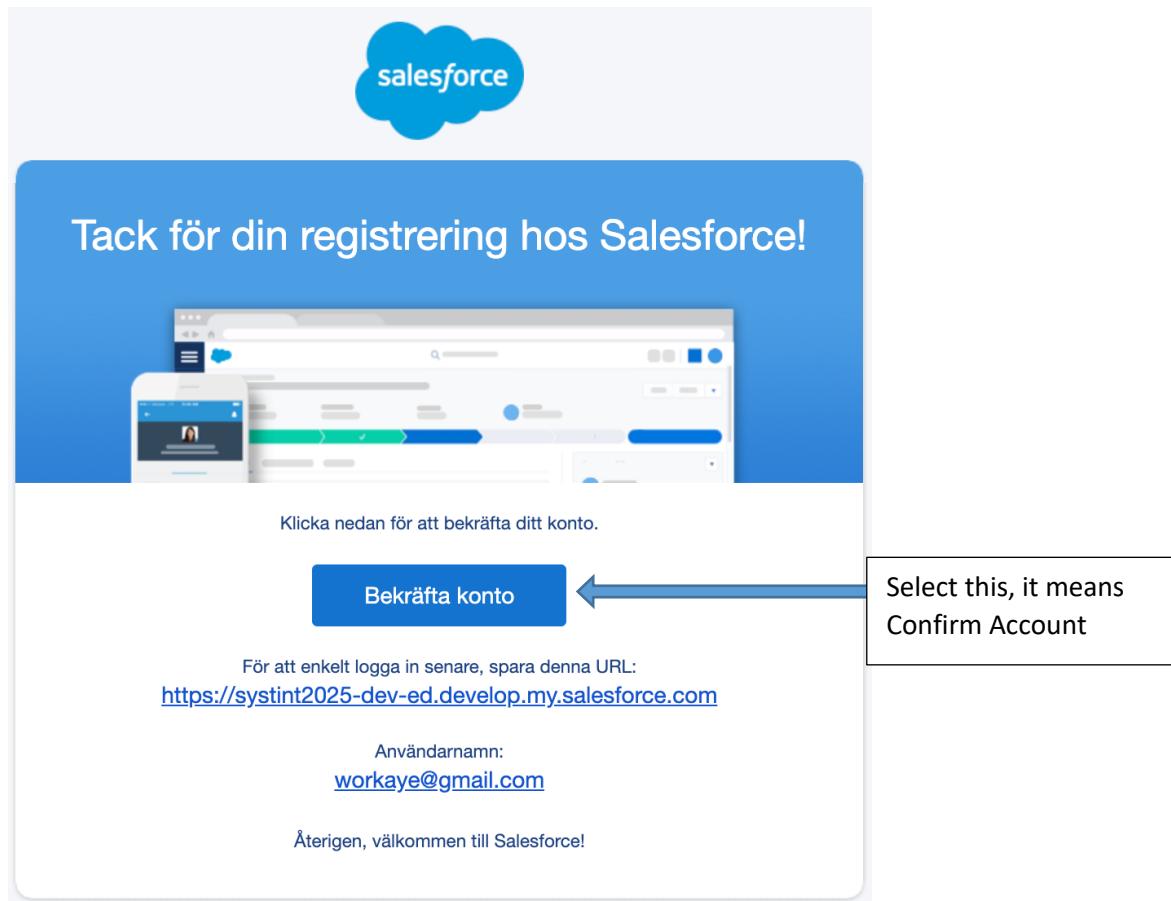
- Open a browser preferably Firefox (Chrome also works)
- Enter – <https://developer.salesforce.com/signup> in the address bar > then press Enter
- Enter your information:
 - **Name** – your **First Name** and **Last Name**
 - **Email** – your email – this should be a real email
 - **Role** – Developer
 - **Company** – Enter **SystInt2025**
 - **Country** – Sweden
 - **Postal Code** – you can enter your postal code here
 - **Username** - can be the same as your email address but it should not be used by any other individual

The screenshot shows the Salesforce sign-up page. At the top right is the Salesforce logo. Below it is the heading "Sign up for your Salesforce Developer Edition" followed by the subtext "A Salesforce Platform environment for free." A call-to-action button says "Complete the form to get access to the Salesforce Developer Edition." The form itself has several input fields: "First Name*" with value "Dave", "Last Name*" with value "Chapline", "Email*" with value "xyz@gmail.com", "Role*" with value "Developer", "Company*" with value "SystInt2025", "Country/Region*" with value "Sweden", "Postal Code*" with value "127 40", and "Username*" with value "xyz@gmail.com". Below the form is a note about username recommendations. There are two checkboxes at the bottom: one checked for agreeing to the "Main Services Agreement – Developer Services and Salesforce Program Agreement" and another unchecked for receiving marketing communications. A reCAPTCHA box is present with the message "I'm not a robot". A large blue "Sign me Up" button is at the bottom, along with a link for existing users to "Log in".

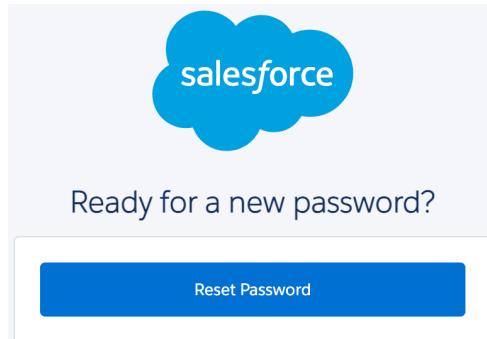
- elsewhere (ex. xyz1@dsv.su.se ← this is just an example, so please do not use it as it is already taken – but use your SU email)
- Check that you agree with the **Terms of Use**, the **Master Subscription Agreement**, as described in the **Privacy Statement** then click **Sign me Up >**



- Check your email you will find information similar to the following (**THIS CAN TAKE A WHILE**)



- After selecting **Confirm Account**, you may be prompted to click on **Reset Password**, as illustrated below.



- Enter your password twice. Your password must have at least eight characters containing at least one digit and at least a letter (Aa to Zz). For now, you can use **SystInt2025** as your password.
- Select your security question, and specify your answer > then specify password two times **Change password**

Ändra ditt lösenord

Ange ett nytt lösenord för **workneh@yahoo.com**. Se till att inkludera minst:

- 8 tecken
- 1 bokstav
- 1 siffra

* Nytt lösenord

Bra

* Bekräfta nytt lösenord

Matcha

Säkerhetsfråga

I vilken stad fick du ditt första jobb?

* Svar

Ändra lösenord

Lösenordet ändrades senast 2023-02-22 22:14.

(This could be in Swedish):

TRANSLATION:

Nytt lösenord = **New password**
 Bekräfta nytt lösenord = **Confirm the new password**

The screenshot shows the Salesforce Setup Home page. At the top, there's a search bar with the placeholder "Sök i Inställningar". Below it, a navigation bar has "Inställningar" selected. A sidebar on the left lists various setup options like "Startsida för inställningar", "Assistent för servicekonfigurering", and "Hyperforce-assistent". The main content area features three cards: "Kom igång med Einstein Bots", "Mobile Publisher", and "Gå med i Trailblazer Community". Each card has a "Kom igång", "Läs mer", and "Gå med i" button.

1.3 Changing to classic mode

Salesforce has classic mode or light mode; the instructions in this manual are written to assist you in classic mode. So change it to classic model; to change your Salesforce to the classic:

- Click on the User Login Icon as illustrated below
- Select – Switch to classic mode (**Byt till Salesforce Classic**)

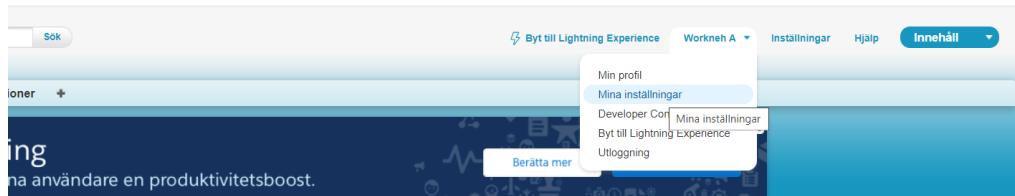
A blue arrow points from the "Switch to classic mode" step in the previous list to the user icon in the top right corner of the screen. A context menu is open next to the user icon, showing options like "Workneh A", "systint2025-dev-ed.develop.my.salesforce.com", "Inställningar", "Logga ut", "VISNINGSDENSITET", "Comfy" (selected), "Compact", "ALTERNATIV", "Byt till Salesforce Classic", and "Lägg till användarnamn".

A blue arrow points from the "Switch to classic mode" step in the previous list to the user icon in the top right corner of the screen. A context menu is open next to the user icon, showing options like "Workneh A", "systint2025-dev-ed.develop.my.salesforce.com", "Settings", "Log Out", "DISPLAY DENSITY", "Comfy" (selected), "Compact", "OPTIONS", "Switch to Salesforce Classic", and "Add Username".

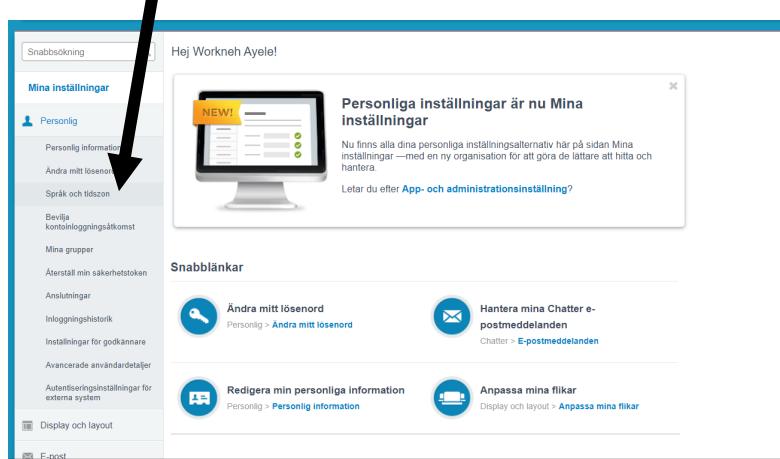
1.4 Changing the default language to English (If the language is already English you can skip this step)

If the default language is English, you can skip this Section. Otherwise, follow the following steps.

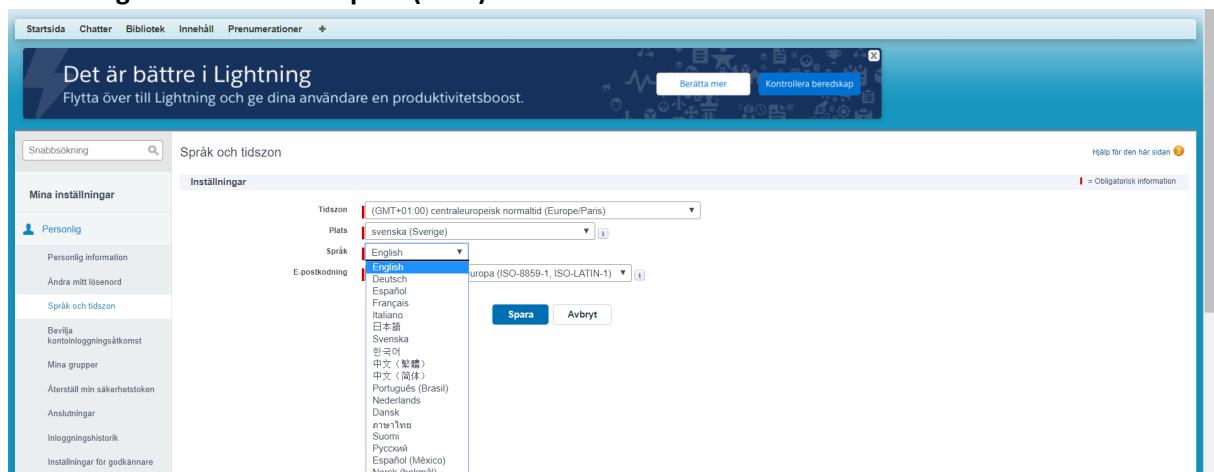
- If the language is Swedish click on **Mina inställningar** under your user name as illustrated below



- Under **Mina Inställningar** > under **Personlig Informatin**
- Select **Språk och Tidszon**



- Select English then click on **Spara (Save)**



1.5 Salesforce and browser options

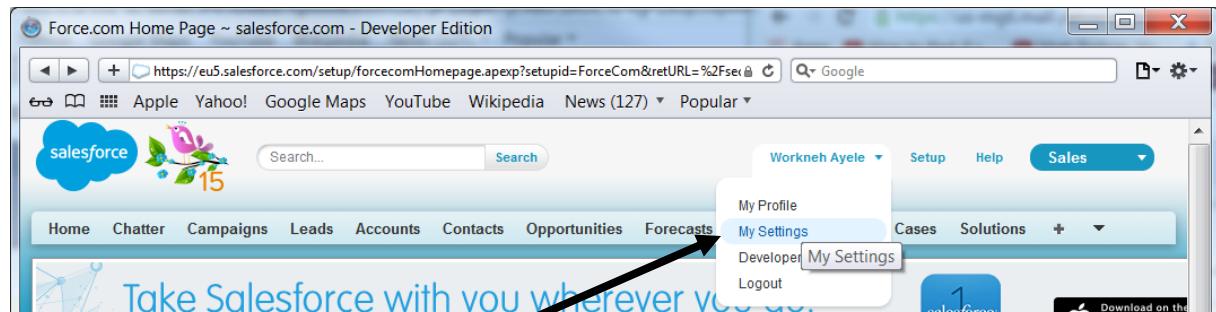
Salesforce is an application provisioned as a cloud service. Cloud computing has three service models in general, such as Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS). If you are using cloud-based applications where you don't have control over the internal infrastructure and operating environment, then the service model is referred to as SaaS. If you are getting platforms such as operating systems to configure and install run your applications, then you are using the PaaS service model. On the other hand, if you have full control over the

infrastructure, such as the hardware – CPU, GPU, etc., where you could install your operating environment and applications, then you are on the IaaS service model.

Salesforce provides SaaS (salesforce.com) and PaaS (Force.com). If you choose the first option, then you have the Customer-Relationship-Management-as a service referred (CRM as a Service) or SaaS. Salesforce.com is the SaaS interface where you do actual customer case handling and support. To access the PaaS of Salesforce, you need to browse to Force.com, where you can customize Salesforce itself, integrate Salesforce with other systems, develop applications and pages, and do other advanced customization tasks. To switch to Salesforce.com, click on **Home**, and if you are in Salesforce.com to switch to Force.com, click on **Setup**.

1.6 Enabling developer mode

To use Salesforce API or to use the Force.com then you need to enable developer mode



- Select the arrow next to your name, as illustrated above
- Select **My Settings**
- Under **Personal**, you can select **Personal information** (to see personal information), click on **Advanced User Details**
- Select **Edit**
- Now you can check both **Developer Mode** and **Show View State in Developer Mode**, then click **Save**

The screenshot shows the 'User Edit' page under 'My Settings'. The left sidebar has sections for Personal (Personal Information, Change My Password, Language & Time Zone, Grant Account Login Access, My Groups, Reset My Security Token, Connections, Login History, Approver Settings), Advanced User Details (Authentication Settings for External Systems), Display & Layout, Email, Chatter, Calendar & Reminders, Desktop Add-Ins, and Import. The main 'User Edit' form has tabs for 'General Information' and 'Advanced User Details'. In 'General Information', fields include First Name (Workneh), Last Name (A), Alias (WA), Email (workneh@dsv.su.se), Username (workneh@yahoo.com), Nickname (User16771002484487327), Title, Company (Stockholm University), Department, and Division. In 'Advanced User Details', fields include Role (<None Specified>), User License (Salesforce), Profile (System Administrator), Active (checked), Marketing User (checked), Offline User (checked), Knowledge User (unchecked), Flow User (unchecked), Service Cloud User (checked), Site.com Contributor User (unchecked), Site.com Publisher User (unchecked), WDC User (unchecked), Data.com User Type (None), Data.com Monthly Addition Limit (300), Accessibility Mode (Classic Only) (unchecked), High-Contrast Palette on Charts (unchecked), Load Lightning Pages While Scrolling (checked), Debug Mode (unchecked), Send Apex Warning Emails (unchecked), Make Setup My Default Landing Page (checked), Quick Access Menu (checked), Development Mode (checked), and Show View State in Development Mode (checked). A note at the bottom right says 'Required Information' with a red asterisk.

1.7 To get support from Salesforce Forum (You can use the forum if you have issues, skip it for now)

To use the Salesforce forum:

- Enter **developer.salesforce.com**
- Select Salesforce under login
- Enter user name and password
- Then **Log in to Salesforce**

Your developer account will enable you to access resources, forums, and so on.

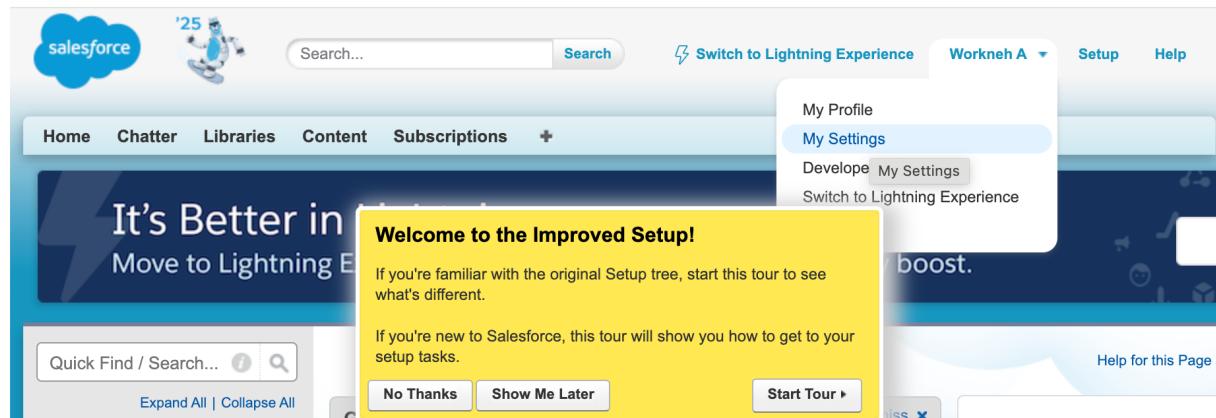
1.8 Generating security token

When you access Salesforce from an IP address that isn't trusted for your company and use a desktop client or the API, you need a security token to log in.

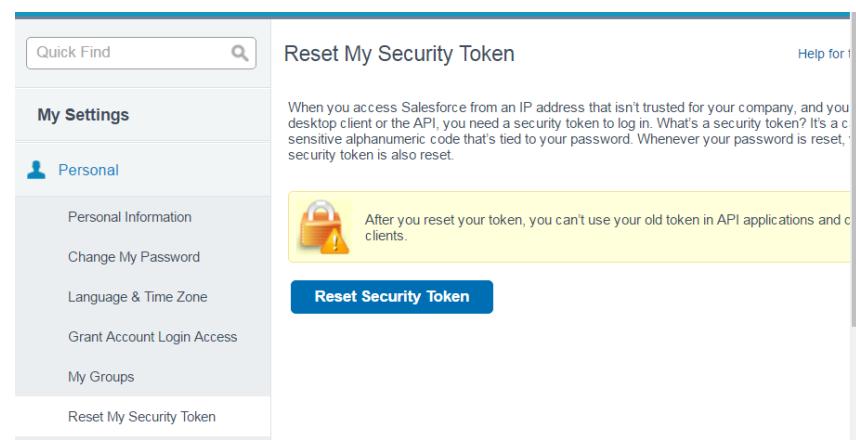
What's a security token? It's a case-sensitive alphanumeric code that's tied to your password. Whenever your password is reset, your security token is also reset. If the security token is not reset, then there is no security token, and you can use your password.

Steps

- To reset security token, Select **My Settings** from your account name as illustrated below



- Under **Personal** you can select **Reset My Security Token**
- Click on **Reset My Security Token**



- Your security token will be sent to your email. Note that you need to use this security token in your application to integrate your cloud-based CRM application with applications.

[Reset My Security Token](#)
Check Your Email



- Under **Grant Account Login Access** <- set Expiry or Access Duration to **one year**

Grant Access To	Access Duration
Your Company's Administrator	1 Year (exp. 2026-02-23)
Salesforce.com Support	✓ --No Access-- 1 Day (exp. 2025-02-24) 3 Days (exp. 2025-02-26) 1 Week (exp. 2025-03-02) 1 Month (exp. 2025-03-23) 1 Year (exp. 2026-02-23)

- Click on Save as shown below

Grant Access To	Access Duration
Your Company's Administrator	1 Year (exp. 2026-02-23)
Salesforce.com Support	1 Year (exp. 2026-02-23)

1.9 Adding Products in Salesforce

- (If you are not logged in (Login to your Salesforce), enter your username and password if you are not logged in)
- click on **Home** then click on **+** (You may get an error <- you should check later on)



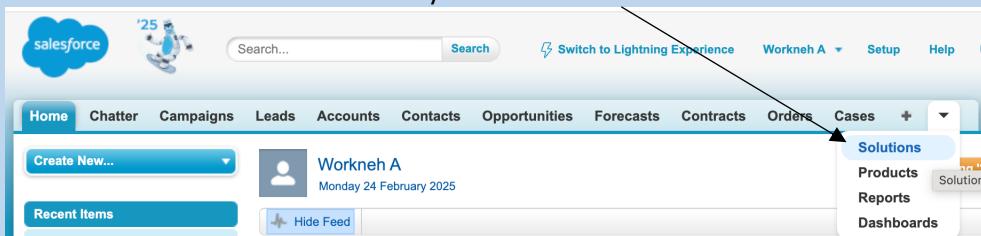
If you encounter an error:

- Select **Sales** instead of **Contents** as illustrated below:



Workneh A

- You can click on the down arrow key and select **Products**



- Select **Products**



- Click on **New** under **Recent Products** (you can scroll down if you do not see this)

Recent Products		
Product Name	Product Code	Product Description
GenWatt Diesel 1000kW	GC1060	
GenWatt Diesel 200kW	GC1040	
GenWatt Diesel 10kW	GC1020	
Installation: Industrial - High	IN7080	
SLA: Silver	SL9040	
GenWatt Propane 500kW	GC3040	
SLA: Platinum	SL9080	
GenWatt Propane 100kW	GC3020	
GenWatt Propane 1500kW	GC3060	
SLA: Bronze	SL9020	
Show 25 items		

- Under **Product Name** – enter **System Integration Toolkit**
- Under **Product Code** – enter **SystInt-2025**

Product Edit Help for this Page 

New Product

Enter product details. Mark products as Active if you want them to be added to price books or opportunities.

Product Edit		Save	Save & Add Price	Cancel
Product Information *= Required Information				
Product Name	<input type="text" value="System Integration Tool"/>	Active	<input type="checkbox"/>	
Product Code	<input type="text" value="SystInt-2025"/>	Product Family	--None-- 	
Product Description	<input type="text"/>			
Save Save & Add Price Cancel				

- Click on **Save**
- Click on **Add** under **Standard Price**

Standard Price Standard Price Help 

Standard Price		Add
No records to display		

- Enter a price value (2577) as illustrated below, then click on **Save**

Add Standard Price Help for this Page 

System Integration Toolkit

Standard Price	Active
<input type="text" value="2577"/>	<input checked="" type="checkbox"/>
Save Cancel	

TODO: Create three other more products with the same product code (**SystInt-2025**) as you just did

Product names

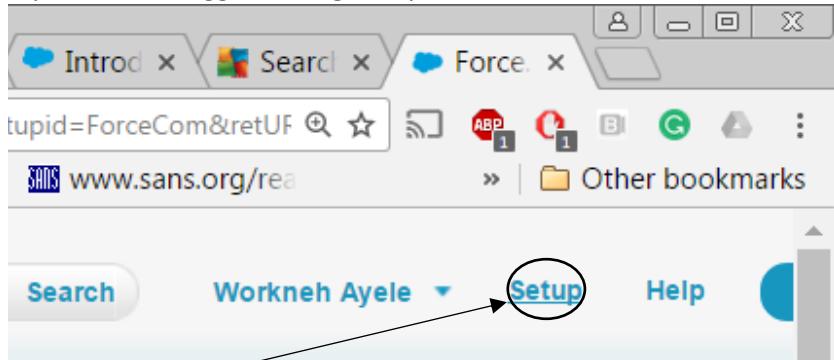
- Visual studio (1500 kr.)
- Intel Server (45000 kr.)
- Router (25000 kr.)
- Swtich (25000 kr.)

- BizTalk Server (258000 kr.)

1.10 Get the WSDL SOAP API

Steps

- If you are not Logged in, **Login** to your salesforce.com account



- Select **Setup**
- Create **Task4** folder under **AllFiles** which is found under C:
- Go to **Develop** on the left sidebar under **Build** then select **API**

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](#)

Apex WSDL
Click on the link below to download an Apex programming WSDL.
[Generate Apex WSDL](#)

Metadata WSDL
Click on the link below to download a Metadata WSDL file.
[Generate Metadata WSDL](#)

Tooling WSDL
Click on the link below to download a Tooling WSDL file.
[Generate Tooling WSDL](#)

Delegated Authentication WSDL
Click on the link below to generate and download a Delegated Authentication WSDL file that can be used for any organization.
[Download Delegated Authentication WSDL](#)

Client Certificate
Click on the link below to download an SSL client certificate for validating requests generated by [salesforce.com](#).
[Generate Client Certificate](#)

Enterprise Package Version Settings
These version settings are used if an API call doesn't include version information for an installed package. This ensures backwards compatibility.
[Configure Enterprise Package Version Settings](#)

- Select **Generate Enterprise WSDL** (if you get error, re-login in another browser-I prefer Chrome)

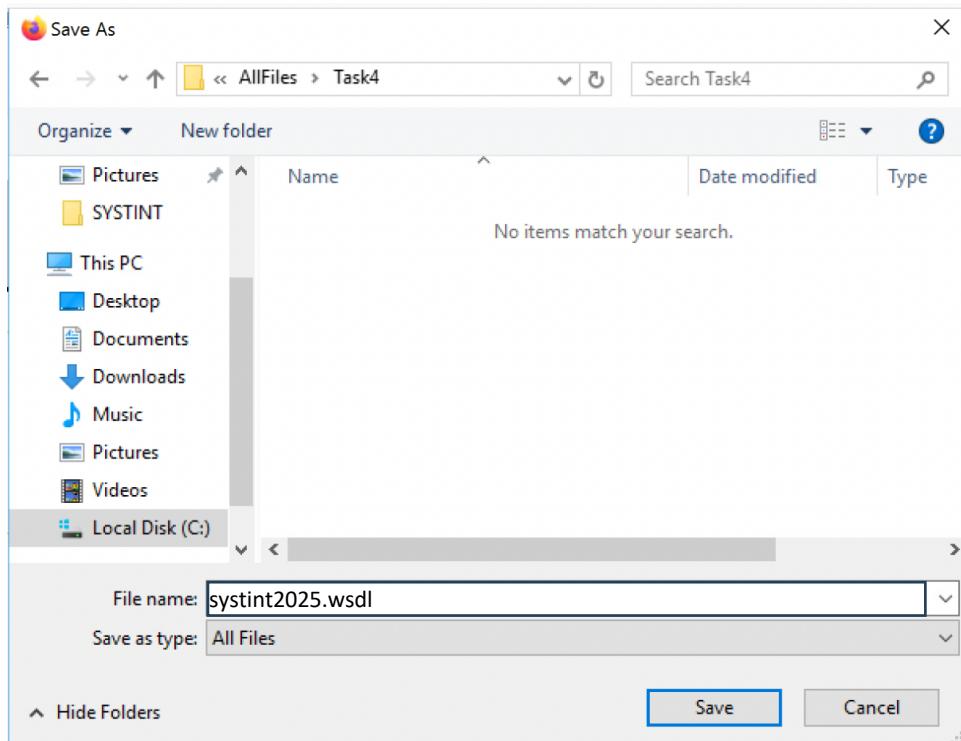
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<!--
Salesforce.com Enterprise Web Services API Version 63.0
Generated on 2025-02-24 19:32:42 +0000.

Copyright 1999-2025 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:tns="urn:enterprise.soap.sforce.com"
  xmlns:fns="urn:fault.enterprise.soap.sforce.com" xmlns:ens="urn:sobject.enterprise.soap.sforce.com"
  targetNamespace="urn:enterprise.soap.sforce.com">
  <types>
    <schema xmlns="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
      targetNamespace="urn:sobject.enterprise.soap.sforce.com">
        <import namespace="urn:enterprise.soap.sforce.com"/>
        <!-- Base sObject (abstract) -->
        <complexType name="sObject">
          <sequence>
            <element name="fieldsToNull" type="xsd:string" nillable="true" minOccurs="0" maxOccurs="unbounded"/>
            <element name="Id" type="tns:ID" nillable="true"/>
          </sequence>
        </complexType>
      <complexType name="AggregateResult">
        <complexContent>
          <extension base="ens:sObject">
            <sequence>
              <any namespace="#targetNamespace" minOccurs="0" maxOccurs="unbounded" processContents="lax"/>
            </sequence>
          </extension>
        </complexContent>
      </complexType>
    <complexType name="AIApplication">
      <complexContent>
        <extension base="ens:sObject">
          <sequence>
            <element name="AiApplications" nillable="true" minOccurs="0" type="tns:QueryResult"/>
            <element name="CreatedBy" nillable="true" minOccurs="0" type="ens:User"/>
            <element name="CreatedById" nillable="true" minOccurs="0" type="tns:ID"/>
            <element name="CreatedDate" nillable="true" minOccurs="0" type="xsd:dateTime"/>
            <element name="DeveloperName" nillable="true" minOccurs="0" type="xsd:string"/>
            <element name="IsDeleted" nillable="true" minOccurs="0" type="xsd:boolean"/>
            <element name="Language" nillable="true" minOccurs="0" type="xsd:string"/>
            <element name="LastModifiedBy" nillable="true" minOccurs="0" type="ens:User"/>
            <element name="LastModifiedById" nillable="true" minOccurs="0" type="tns:ID"/>
            <element name="LastModifiedDate" nillable="true" minOccurs="0" type="xsd:dateTime"/>
            <element name="MasterLabel" nillable="true" minOccurs="0" type="xsd:string"/>
            <element name="MLPredictionDefinitions" nillable="true" minOccurs="0" type="tns:QueryResult"/>
            <element name="MLRecommendationDefinitions" nillable="true" minOccurs="0" type="tns:QueryResult"/>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </types>

```

- Right click on the code generated then, select All Files under **Save as type**
- Click **Save as**, to save it in your computer in your project folder -
C:\AllFiles\Task4\syntint2025.wsdl.



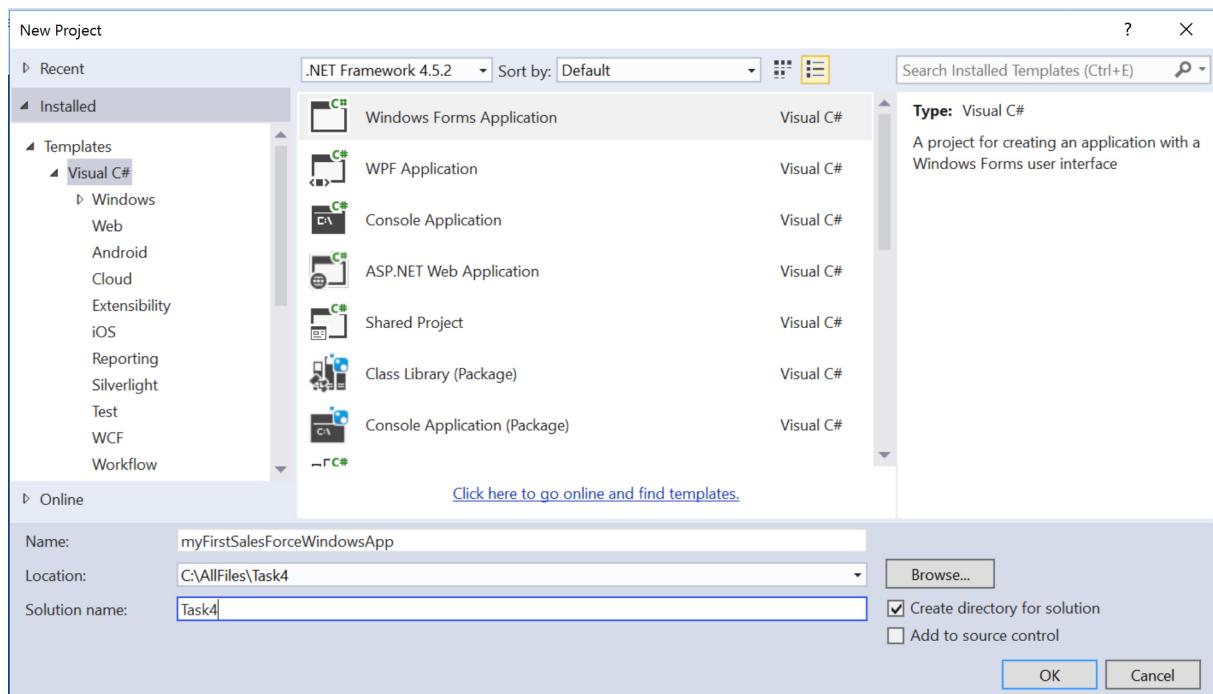
Part II

2. Creating Integrated Windows Application with Salesforce

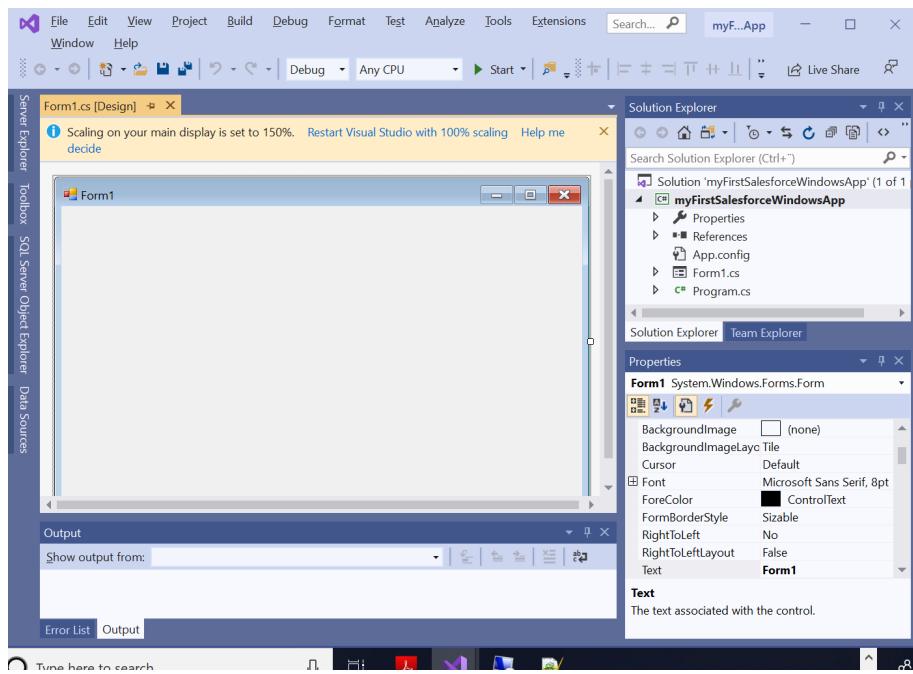
2.1. Creating Integrated Windows .NET Application

Steps

- Start a new **Visual Studio Community** instance by using the **Start** menu, Select **New Project**
- Select **Windows Forms Application (.NET Framework)** after selecting **Visual C#**

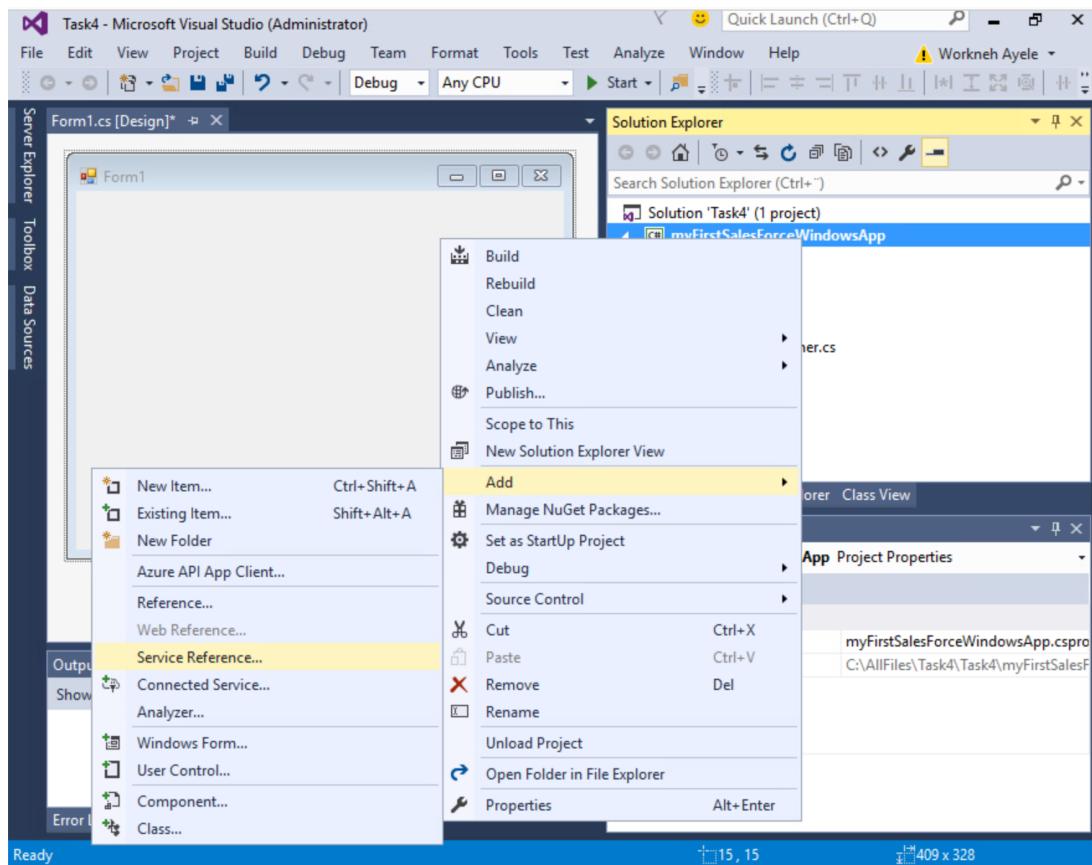


- Enter the applications name – **myFirstSalesforceWindowsApp**
- Specify **Location** to be – C:\AllFiles\Task4
- Click on **OK**, and your Windows Form will be created, as illustrated below



To create the reference to the service

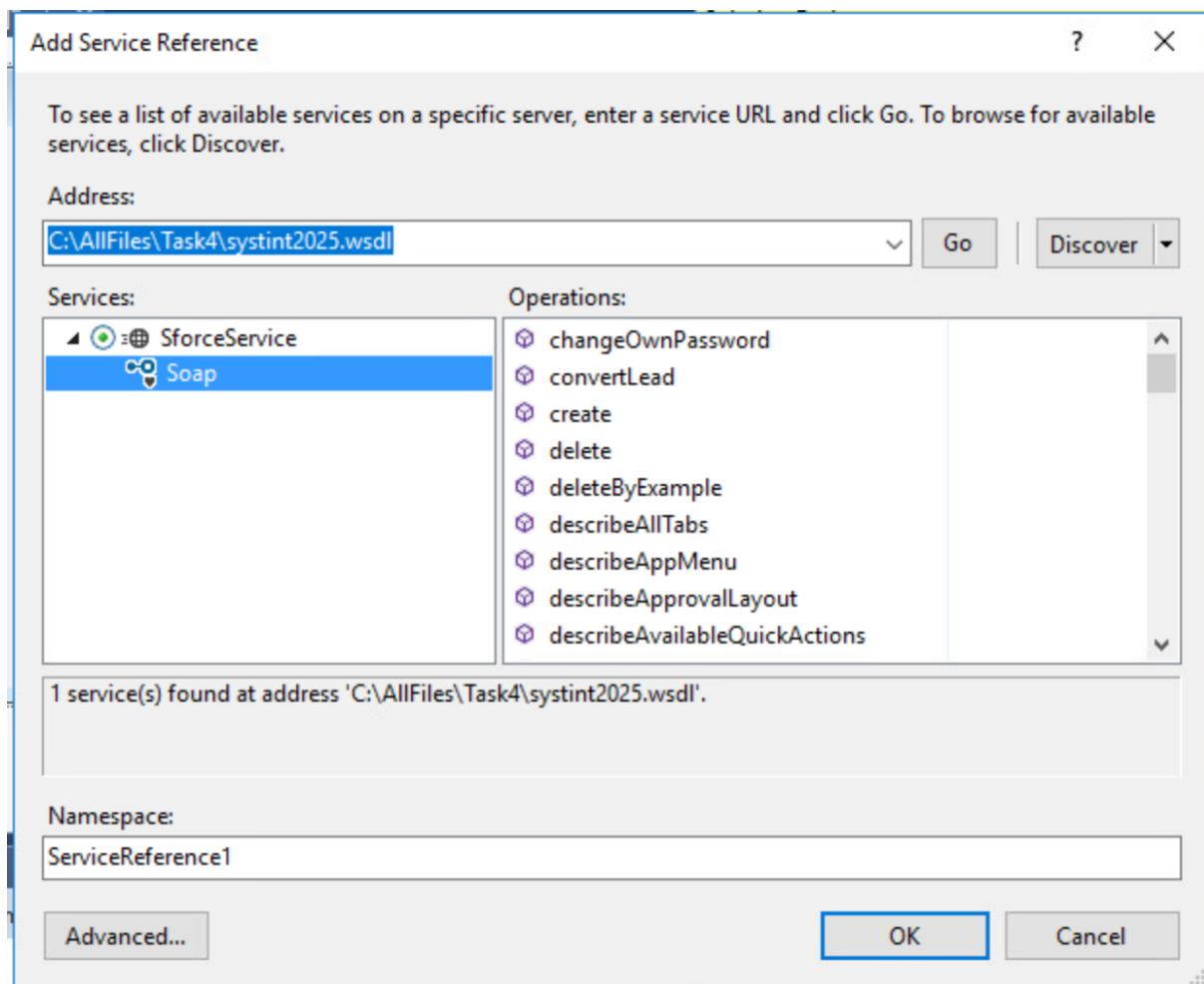
- Right-click on your Project > Point to Add > Select Services References



- Add the address of the WSDL file, i.e., systint2025.wsdl
 - The address is: "C:\AllFiles\Task4\systint2025.wsdl"
- Then click Go

- Enter **ServiceReference1** as the name, and for illustration, see the snapshot below

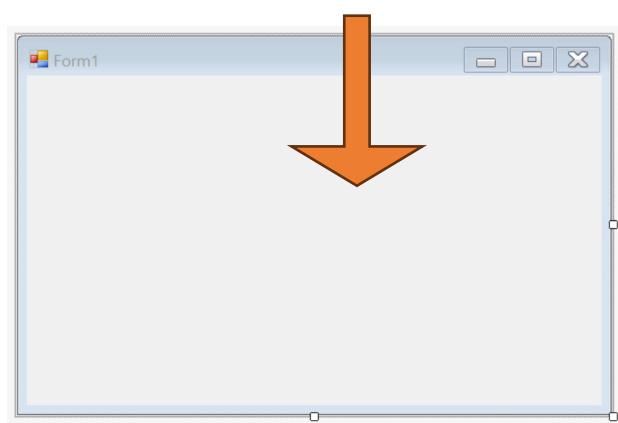
Note: You can see the functions available in the service.



- Click **OK**

2.2. Adding the Form1 load code

Here, you will add the Form_load code. As this application is opened, it will start a new session by connecting to Salesforce using your username, password, and security token. To create this event-based method/function, **double-click** on the empty background of Form1.



- Now, the form load event will be opened in the code view. Enter the code for Form1_Load as illustrated below:

```
1 reference
private void Form1_Load(object sender, EventArgs e)
{
}
```



The code for this method/function:

```
private void Form1_Load(object sender, EventArgs e)
{
    client = new SoapClient();

    ServicePointManager.Expect100Continue = true;
    ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls12;

    string acctName = "youraccountemail@xxx.com"; //YOUR DEVORG USERNAME";
    string acctPw = "YourPassword"+Yoursecuritytoken";
    try
    {
        loginResult = client.login(null, acctName, acctPw);
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message+ " and "+ ex.StackTrace);

        if (ex.Data != null)
        {
            MessageBox.Show("You failed to login");
            Close();
        }
    }

    MessageBox.Show("Congratulations: Login succeeded ");
    // success
}
```

After you enter the code you will get some errors, to fix the errors follow the following step:

- Hover your mouse over **SoapClinet** as illustrated below:

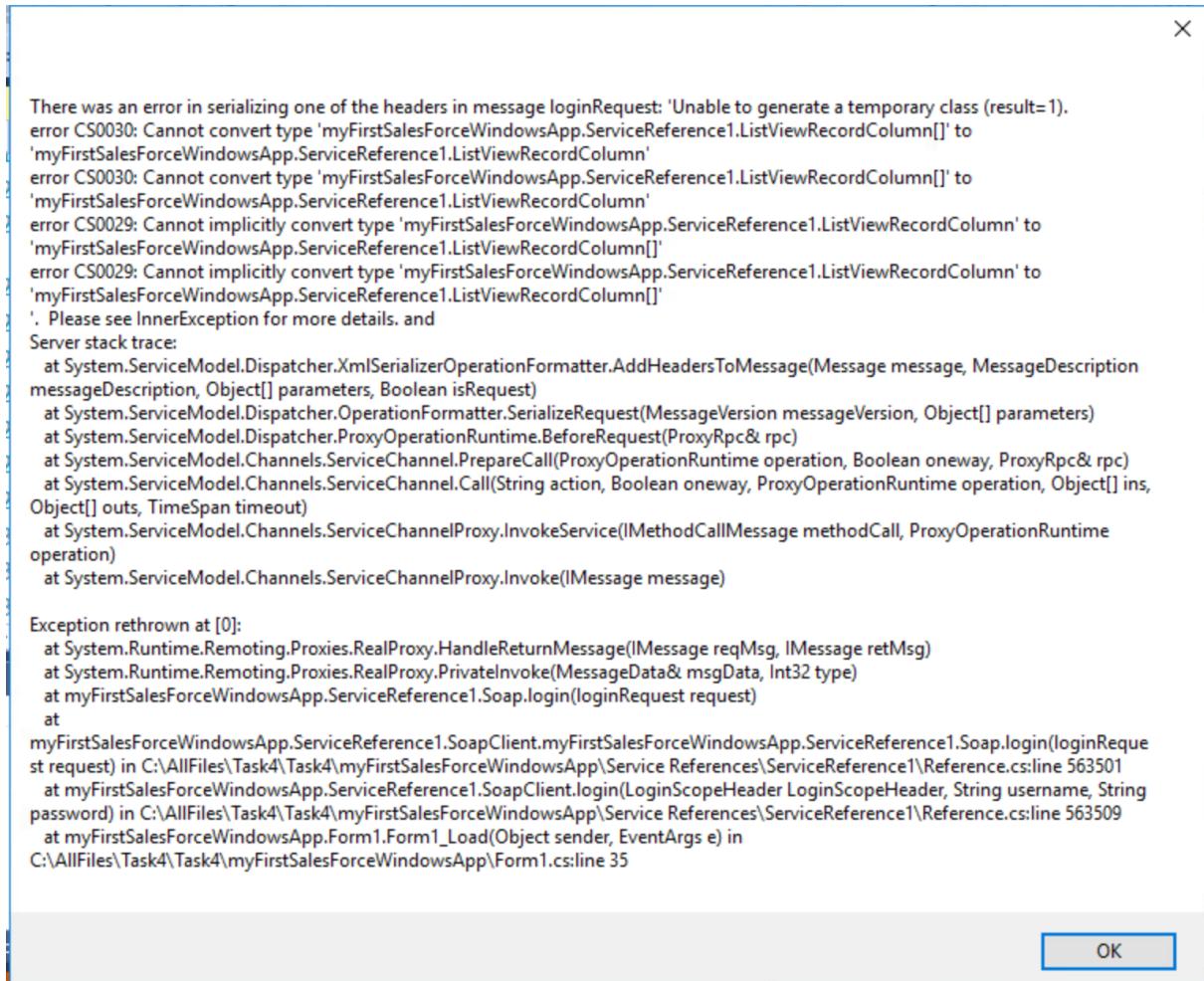


- You will still get error messages to clean the errors, add the following code above

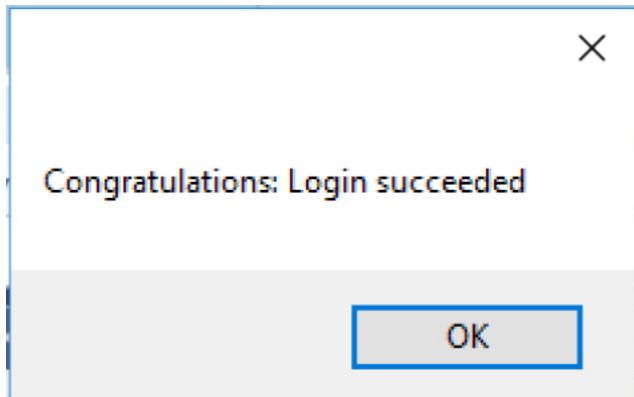
`private void Form1_Load (object sender, EventArgs e)` as illustrated below:

```
private static SoapClient client;
private static LoginResult loginResult; }
```

- Add “`using System.Net`” without the quotation marks in the beginning of the entire code.
- Build the project and click on **Start** ()



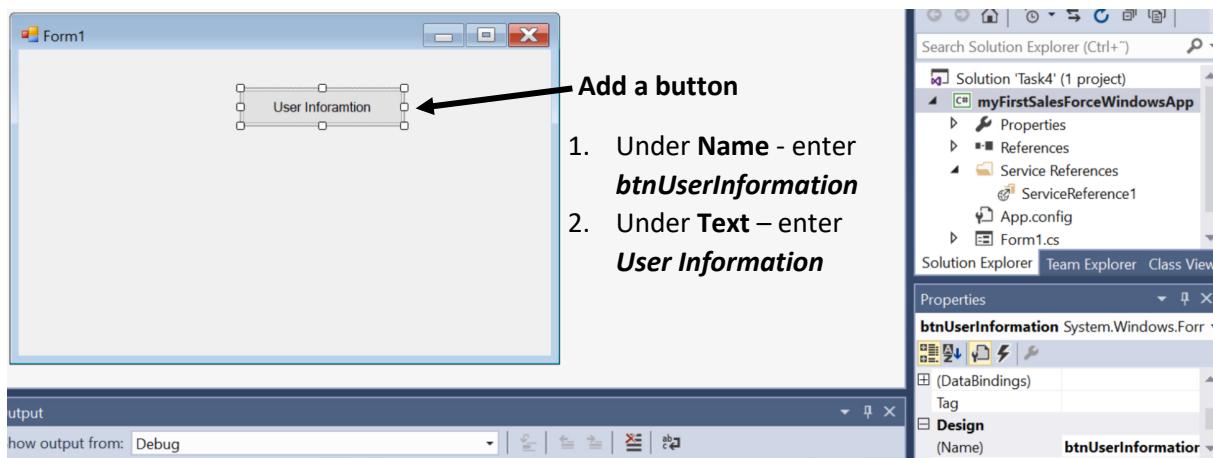
- Click OK
- Click OK again
- The error is a common error, and you can easily fix it by following the instruction in Appendix 1.
- After fixing the issue, Run your Windows Application by clicking on Start ()
- If everything works fine! You will see a message box showing you the following message
"Congratulations: Login succeeded"



- Exit the running application to continue to the next step

2.3. Adding controls to Form1 designer

Here, you will add a button; when the user clicks on the button, it will display a message box with information about the user details of your Salesforce account.

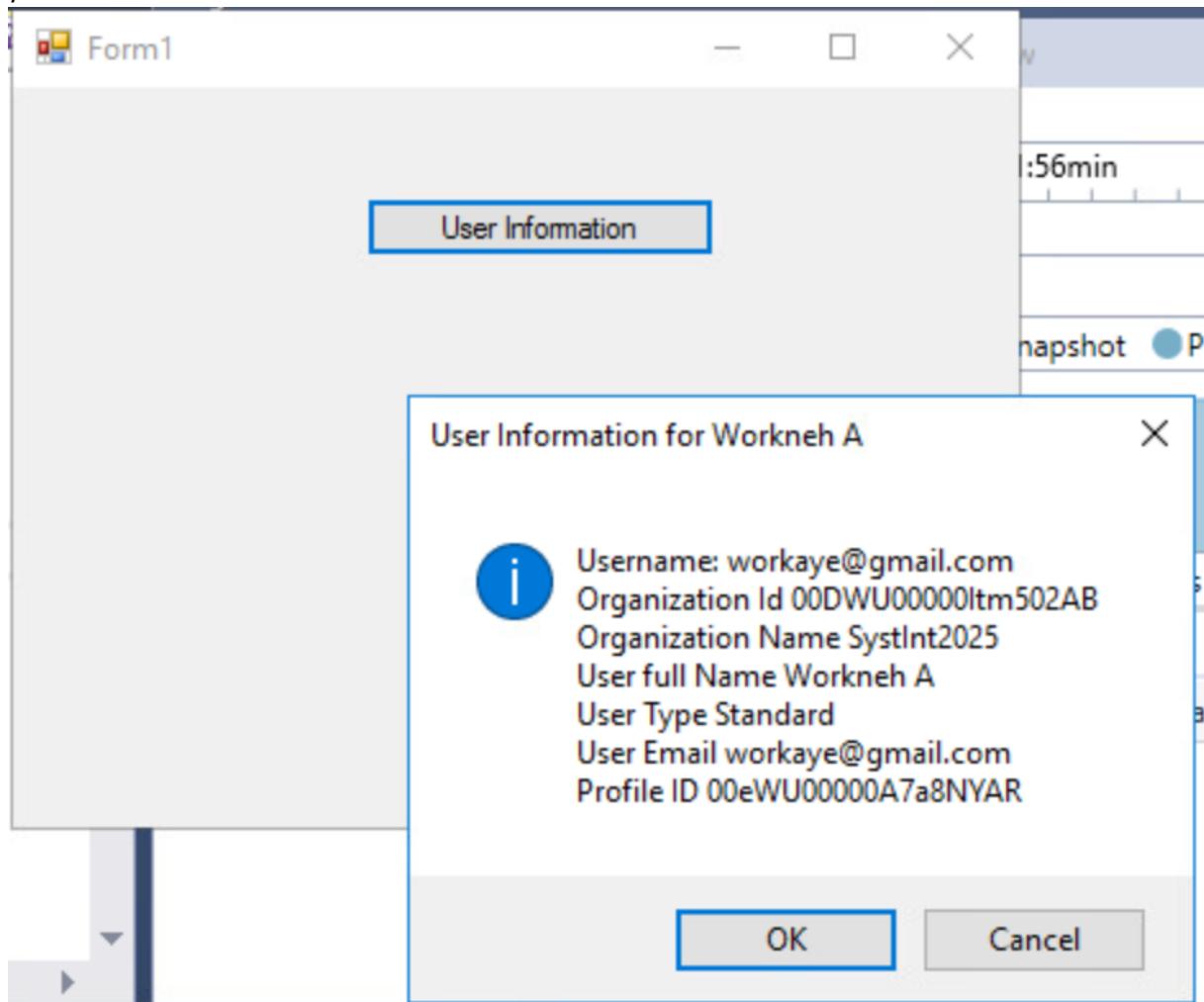


- Double click on the button: **User Information**
- Add the following code:

```
private void btnUserInformation_Click(object sender, EventArgs e)
{
    MessageBox.Show("Username: " + loginResult.userInfo.userName + "\n"
        + "Organization Id " + loginResult.userInfo.organizationId + "\n"
        + "Organization Name " + loginResult.userInfo.organizationName + "\n"
        + "User full Name " + loginResult.userInfo.userFullName + "\n"
        + "User Type " + loginResult.userInfo.userType + "\n"
        + "User Email " + loginResult.userInfo.userEmail + "\n"
        + "Profile ID " + loginResult.userInfo.profileId + "\n"
        , "User Information for" + loginResult.userInfo.userFullName,
        MessageBoxButtons.OKCancel, MessageBoxIcon.Information);
}
```

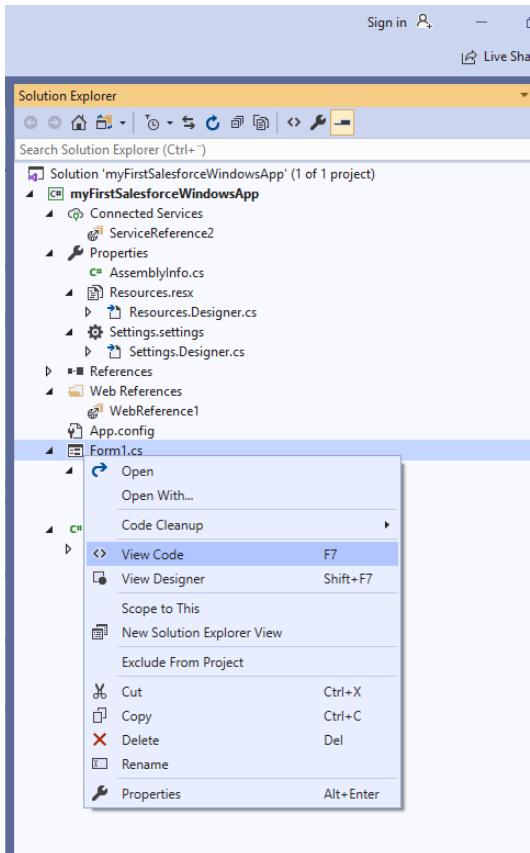
Save your project

- Run your Windows Application by clicking on **Start** ()
- Click OK on the Login success dialog box and click on User Information button, if you succeed you will see all user details as illustrated below.



2.4. Switching between Designer View and Code View

- To go back to Design View:
 - Under **Form1** in the **Solution Explorer** right click on **Form1.cs** > then click on **View Designer**
- To go back to Design View:
 - Under **Form1** in the **Solution Explorer** right click on **Form1.cs** > then click on **View Designer**



Exercise (mandatory): Add a button (**Text** = Server URL, **Name** = btnServerURL) that will be used to show ServerURL, and write the code as you did for User Information.

Exercise (optional): Add a button (**Text** = Session ID, **Name** = btnSessionID) and write the code as you did for User Information.

The final code:

- The code is illustrated below, Form1.cs – you can copy the code below or enter the code manually

```
using myFirstSalesforceWindowsApp.ServiceReference1;
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Net;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace myFirstSalesforceWindowsApp
{
    public partial class Form1 : Form
```

```

{
    public Form1()
    {
        InitializeComponent();
    }
    private static SoapClient client;
    private static LoginResult loginResult;
    private void Form1_Load(object sender, EventArgs e)
    {
        client = new SoapClient();

        ServicePointManager.Expect100Continue = true;
        ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls12;

        string acctName = "email@xyz.com"; //your username
        string acctPw = "yourPassword" + "your_token";

        try
        {
            loginResult = client.login(null, acctName, acctPw);
        }
        catch (Exception ex)
        {
            MessageBox.Show(ex.Message + " and " + ex.StackTrace);
            if(ex.Data !=null)
            {
                MessageBox.Show("You failed to login");
                Close();
            }
        }
        MessageBox.Show("Congratulations: Login succeeded"); //Success
    }

    private void btnUserInformation_Click(object sender, EventArgs e)
    {
        MessageBox.Show("Username: " + loginResult.userInfo.userName + "\n"
            + "Organization Id " + loginResult.userInfo.organizationId + "\n"
            + "Organization Name " + loginResult.userInfo.organizationName + "\n"
            + "User full Name " + loginResult.userInfo.userFullName + "\n"
            + "User Type " + loginResult.userInfo.userType + "\n"
            + "User Email " + loginResult.userInfo.userEmail+ "\n"
            + "Profile ID " + loginResult.userInfo.profileId+ "\n"
            , "User Information for " + loginResult.userInfo.userFullName, MessageBoxButtons.OKCancel,
        MessageBoxIcon.Information);
    }
}

```

The additional codes (the optional and the mandatory):

```

private void btnServerURL_Click(object sender, EventArgs e)
{
    MessageBox.Show("User name : " + loginResult.userInfo.userName + "\n"
        + "Server URL :" + loginResult.serverUrl,
        "Server URL for" + loginResult.userInfo.userFullName + "\n",
        MessageBoxButtons.OKCancel, MessageBoxIcon.Information);
}

private void btnSessionID_Click(object sender, EventArgs e)

```

```
{  
    MessageBox.Show("User name : " + loginResult.userInfo.userName + "\n"  
        + "Session ID :" + loginResult.sessionId,  
        "Session Id for" + loginResult.userInfo.userFullName + "\n",  
        MessageBoxButtons.OKCancel, MessageBoxIcon.Information);  
}
```

2.5. Testing if the code works

- Select **Start** from the toolbox

Reference

1. https://help.salesforce.com/HTViewHelpDoc?id=user_security_token.htm
2. <http://www.ashishblog.com/integrating-salesforce-soap-api-using-c-net/>
3. [https://developer.salesforce.com/page/Consuming Force.com SOAP and REST Web Services from .NET Applications](https://developer.salesforce.com/page/Consuming_Force.com_SOAP_and_REST_Web_Services_from_.NET_Applications)
4. <http://www.jitendruraa.com/blog/salesforce/create-a-custom-web-service-in-salesforce-and-consume-it-in-c-net-application/>

To fix error related with wsdl file

5. <https://developer.salesforce.com/forums/?id=906F0000000Aj5kIAC>

Appendix 1 – How to solve the error CS0030

Here is how you solve the problem

The address here should be your project address, and it might be different from what you see on the screenshot

- Find **Reference.cs** file in your project folder (Open it using Notepad++) then find all instances of '[][]' and replace them with '['']'

