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nt API in Asp.net MVC - 5

5, (/Search/MVC-5/) OAuth, (/Search/OAuth/) google
e Sign-In, (/Search/Configure-Google-Sign-In/) 👁 10980

C 5 web application that enables users to log in
e some of the functionality from Google account

Life Vibrating Screen

n with Facebook in Asp.net MVC
vc/2), Today in this article, I will explain how to

ow users to sign in with their Google account, you
ers Console
ave register the application you can use the
e to register the Google Social login provider in
your Asp.net MVC application

Ok, let's start Asp.net MVC Google authentication

Fallow these steps in order to implement "Google Sign-in for your Asp.net MVC application"

Step1: Create client Id and client secret

In first step create new project in Google Developers Console
(https://console.developers.google.com/) for use Google authentication service. Make sure you must
have to login with your account.
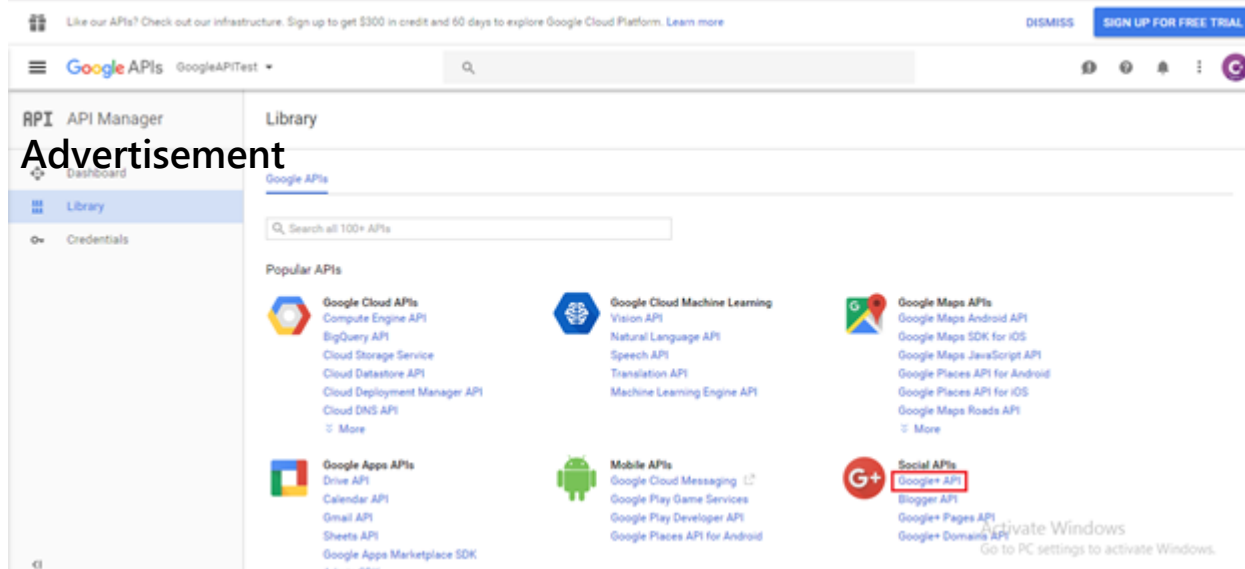
Firstly click on 'Create project'
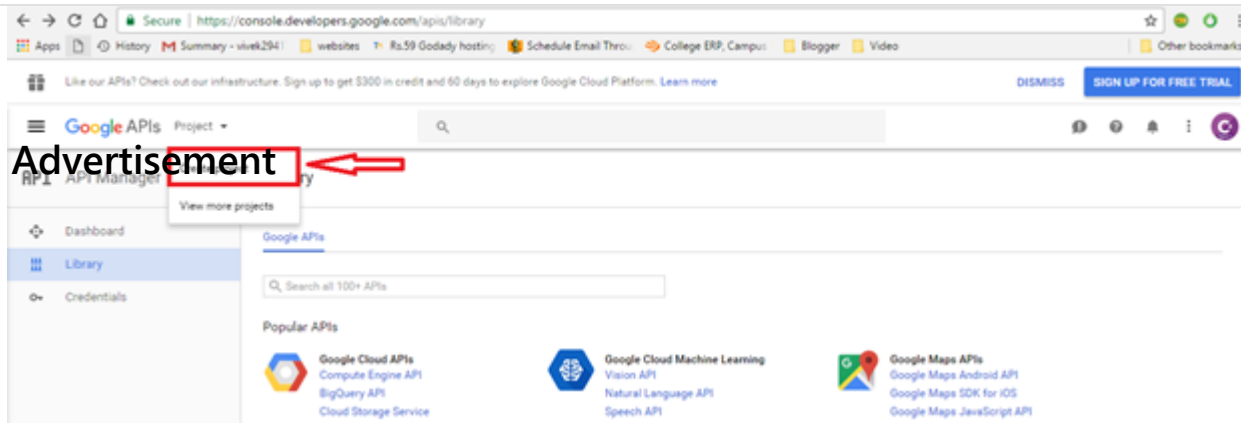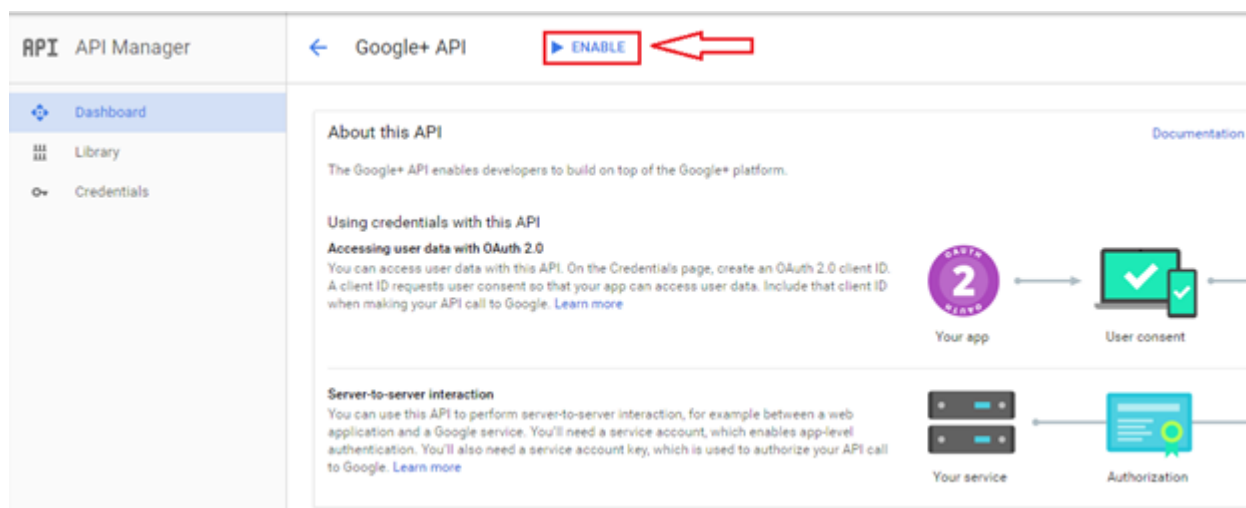
In the 'New project' dialog, write you project name.

After giving your project name. Click on to 'Create' button to create your project.

In next step click on Google+ API link.

Next Click on 'Enable' button, by click on Enable button API will be enable

In next you must have to enter your credentials, by which you can use API in your project.

So Click on '*Create Credentials*' and under it choose '*OAuth client id*'
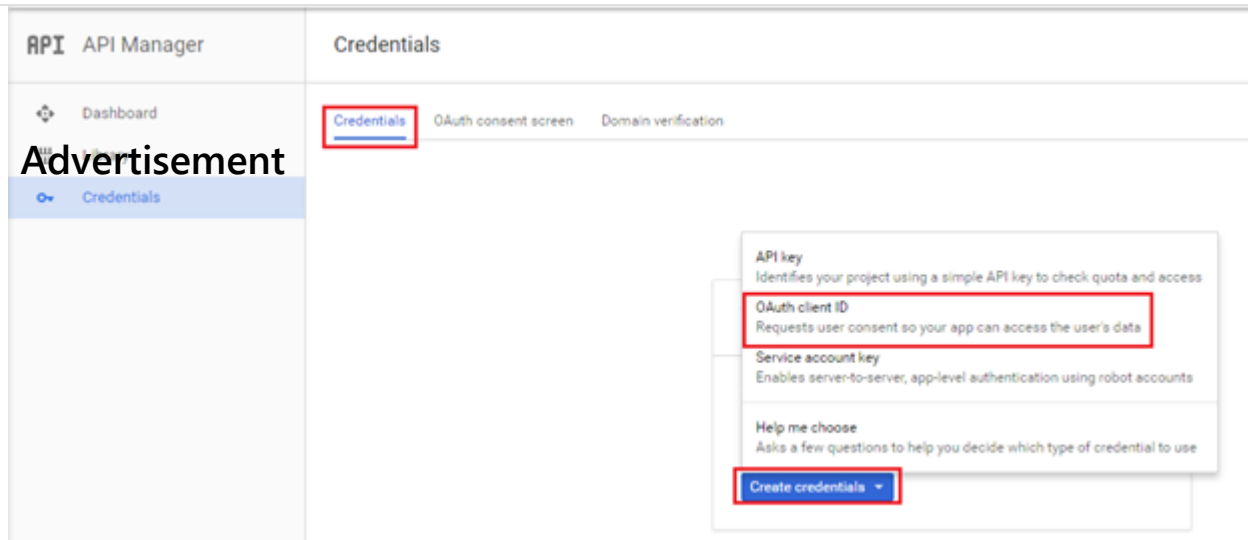
For configure consent screen click on it
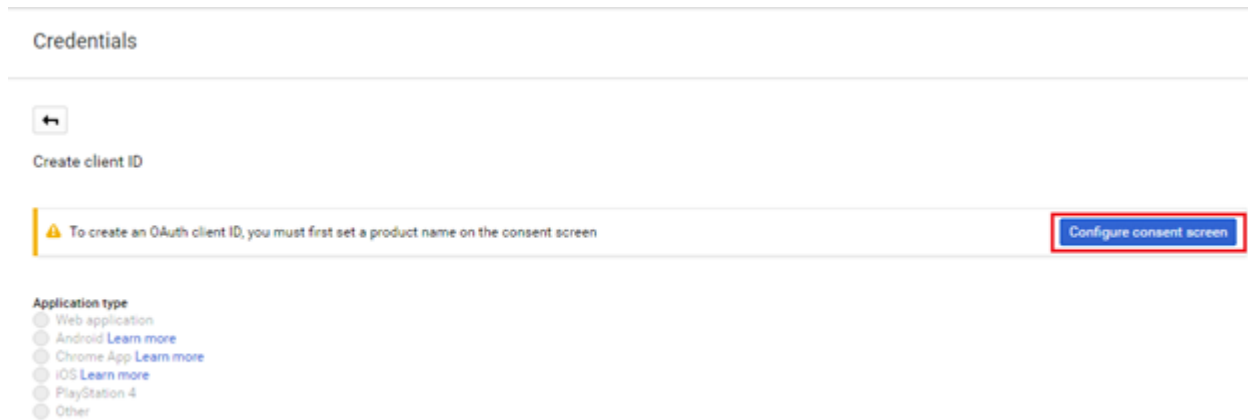
Now you should enter your registered email id and project name, click to save button to save this.

Click on radio button 'Web application' and then enter your authorized redirect URLs.

You should enter your correct URL as in Visual Studio, go to properties of your project and then copy your URL.

Then click to 'Create' button.

After click on '*Create*' button the client id and client secret will be generated. Now copy both client id and client secret from OAuth client popup

Now go to your project.

Step2: Create New Project.

Go to File > New > Project > Web > Asp.net MVC web project > Enter Application Name > Select your project location > click to add button > It will show new dialog window for select template > here we will select empty project > then click to ok

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Step3: Create a Controller.

Go to Solution Explorer > Right Click on Controllers folder form Solution Explorer > Add > Controller > Enter Controller name > Select Template "empty MVC Controller"> Add.

Here I have created a controller "HomeController"

Now we will add a view for Index action (which is already added in the home controller) where we will implement Gmail account authentication.

Step4: Add view for Index action.

Right Click on Action Method (here right click on Index action) > Add View > Enter View Name > Select "Empty" under Template dropdown > Check use a layout page > Add.

Write fallowing HTML code in your Index view

HTML Code:

```
@{
    Layout = null;
}
```

```
<!DOCTYPE html1>

<html>
<head>
    <meta name="viewport" content="width=device-width" />
    <title>Index</title>

    <script type="text/javascript" src="http://code.jquery.com/jquery-1.8.2.js"></script>
    <script src="https://apis.google.com/js/platform.js" async defer></script>
    <script type="text/javascript">
        var OAUTHURL = 'https://accounts.google.com/o/oauth2/auth?';
        var VALIDURL = 'https://www.googleapis.com/oauth2/v1/tokeninfo?access_token=';
        var SCOPE = 'https://www.googleapis.com/auth/userinfo.profile https://www.googleapis
        var CLIENTID = '331417780027-lo2mtpg59b47v87alelkuv1o5889h78d.apps.googleusercontent
        var REDIRECT = 'http://localhost:56623/Home/Index';
        var LOGOUT = 'http://localhost:56623/Home/Index';
        var TYPE = 'token';
        var _url = OAUTHURL + 'scope=' + SCOPE + '&client_id=' + CLIENTID + '&redirect_uri='
        var acToken;
        var tokenType;
        var expiresIn;
        var user;
        var loggedIn = false;

        function login() {

            var win = window.open(_url, "windowname1", 'width=800, height=600');
            var pollTimer = window.setInterval(function () {
                try {
                    console.log(win.document.URL);
                    if (win.document.URL.indexOf(REDIRECT) != -1) {
                        window.clearInterval(pollTimer);
                        var url = win.document.URL;
                        acToken = gup(url, 'access_token');
                        tokenType = gup(url, 'token_type');
                        expiresIn = gup(url, 'expires_in');

                        win.close();
                        debugger;
                        validateToken(acToken);
                    }
                }
                catch (e) {

                }
            }, 500);
        }
```

```
        function gup(url, name) {
            namename = name.replace(/[\[]/, "\\\[").replace(/[\]]/, "\\\]");
            var regexS = "[\\#&]" + name + "=([^&#]*)";
            var regex = new RegExp(regexS);
            var results = regex.exec(url);
            if (results == null)
                return "";
            else
                return results[1];
        }


        function validateToken(token) {

            getUserInfo();
            $.ajax(


                {

                    url: VALIDURL + token,
                    data: null,
                    success: function (responseText) {



                    },

                });


        }


        function getUserInfo() {


            $.ajax({

                url: 'https://www.googleapis.com/oauth2/v1/userinfo?access_token=' + acToken
                data: null,
                success: function (resp) {
                    user = resp;
                    console.log(user);
                    $('#uname').html('Welcome ' + user.name);
                    $('#uemail').html('Email: ' + user.email)
                    $('#imgHolder').attr('src', user.picture);



                },



            }),

            $.ajax({
```

```
                    url: '/Home/GoogleLogin/',

                    type: 'POST',
Advertisement       data: {
                        email: user.email,
                        name: user.name,
                        gender: user.gender,
                        lastname: user.lastname,
                        location: user.location
                    },
                    success: function () {
                        window.location.href = "/Home/Index/";
                    },

                    //dataType: "jsonp"

                });


            }

        </script>


    </head>
    <body>
        <div>
            <button class="button" id="GoogleLogin" onclick="login()" style="background-color:#e
            <div id="uname"></div>
            <div id="uemail"></div><br />
            <div><img id="imgHolder" style="height:120px;width:120px;" /></div>
        </div>
    </body>
</html>
```

Step5: Add a method in HomeController

Add a method in the HomeController for get data from Index View

```
public void GoogleLogin(string email,string name, string gender,string lastname,string
location)
    {
        //Write your code here to access these paramerters

    }
```

Step6: Run Application

We have done all steps. Now it's time to run the application.

Sign in with Google

Welcome Csharp Space

Email: ██████████@gmail.com

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Co-Founder and CTO at Tutorials link with more than 4 years of experience in different technologies like ASP.NET, MVC, Windows Forms, SQL server, Angular JS. I am working as a software developer in Microsoft .NET technologies since 2013. I like to share my working experience, Knowledge and research through my…

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Eyad Alashqar

thx, but not working when using https?why?

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Ankur Tyagi

400. That's an error.

Error: redirect_uri_mismatch

The redirect URI in the request, http://localhost:56196, does not match the ones authorized for the O
client. To update the authorized redirect URIs, visit:
https://console.developers.google.com/.../374088071946...

Learn more

Request Details
That's all we know.

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> **Navin Pandit**
>
> I am too late to reply this but this may be helpful for others. This is working fine, if it is still n
> working and giving the above error, then pls check for:
>
> 1. Redirect URI: this should be exact match as you have configured. E.g. If you have config
> Auhthorized URI as: http://xyz.com then your redirect URI might be http://xyz.com/ <--- pls r
> forward slash here.
>
> 2. If you are sure about your URIs, then inspect for your javascript file. Probably it is not refr
> with updated one.
>
> Thanks Vivek for your nice article!
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> > **Trung Nguyễn**
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> > Navin Pandit hi, Not work
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