

**IE5042**

**Software Security**

**Assignment – 2**

MSc in Information Technology Specialization in Cyber Security

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**What is OAuth?**

OAuth 2 is an authorization framework that enables applications to obtain limited access to user accounts on an HTTP service, such as Facebook, GitHub, and other social media nowadays. It gives user authentication services that host the user account and authorizing third-party applications to access the user's credentials.

OAuth 2 provides authorization flows for web and desktop applications, and mobile devices.This informational guide is geared towards application developers and provides an overview of OAuth 2 roles, authorization grant types, use cases, and flows.

**OAuth defines four roles:**

* **Resource Owner**
* **Client**
* **Resource Server**
* **Authorization Server**
* **Resource Owner: User**

**Resource Owner**

The resource owner is the user who authorizes an application to access their account.

The application's access to the user's account is limited to the "scope" of the authorization granted (e.g. read or write access).

**Resource / Authorization Server**

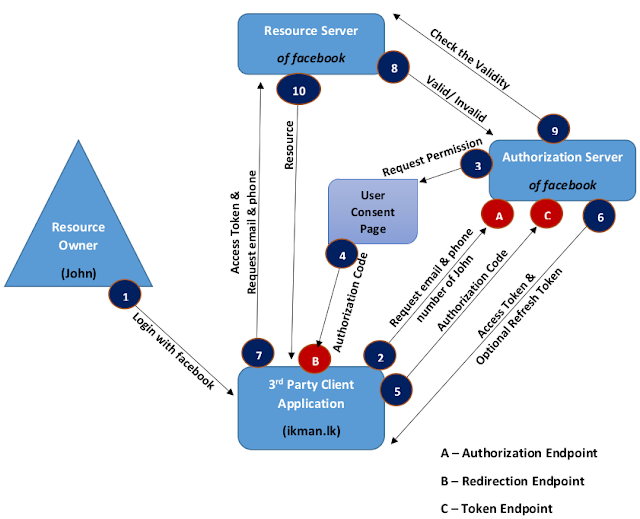
The resource server hosts the protected user accounts, and the authorization server verifies the identity of the user then issues access tokens to the application.

From an application developer's point of view, a service's API fulfills both the resource and authorization server roles. We will refer to both of these roles combined, as the Service or API role.

**Client: Application**

The client is the application that wants to access the user's account. Before it may do so, it must be authorized by the user, and the authorization must be validated by the API.

**How this work?**

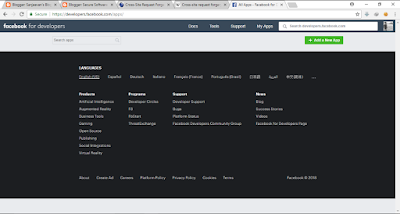
[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

**Demonstration**

**Registering the Facebook App**

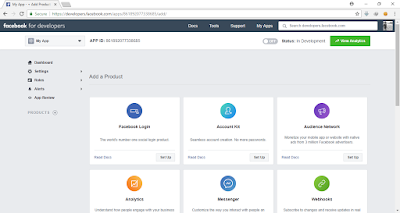
Initially the App should be registered with the Facebook developer’s website.

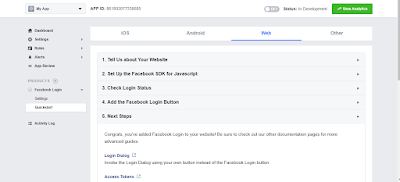
Visit: [https://developers.facebook.com](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

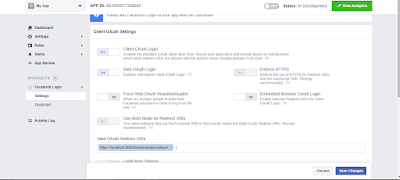
Give a show name to your application and your contact email and make the application.

Once your application is made, set up "Facebook Login" with it.

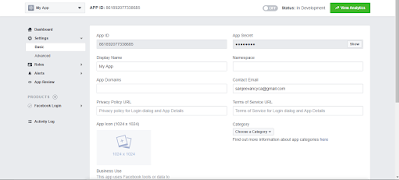
[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

Under the Settings of the "Facebook Login", you have to give the Redirection Endpoint URL. This URL ought to be inside your customer web application and Facebook will send all reactions to this URL. Nonetheless, to try out this stream, you don't need a working URL accessible. You can basically give a spurious URL here to the occasion.

[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

You can see the App ID and the App Secret in the basic settings under the dashboard.

[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

Now we have successfully registered the App.

**Obtaining the Authorization Code**

In order to obtain the authorization code from facebook, we need to send a HTTP GET request to the Authorize Endpoint of Facebook, which is https://www.facebook.com/dialog/oauth. Along with the request, you need to send several parameters. They are (With my values. You can add your’s),

response\_type (code)

client\_id (861892077338685)

redirect\_uri (http://localhost:8080/facebookapp/callback) – The Redirection Endpoint URL which you defined in “Facebook Login” settings. This value should be URL encoded when sending with the request.

scope (public\_profile) – The scopes (permissions to resources) which your app needs to access. When you have multiple scopes, separate them with spaces and the string should be URL encoded when sending with the request

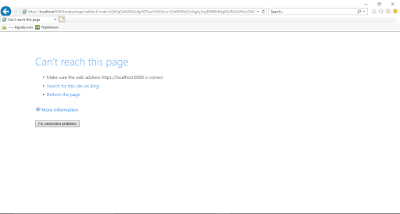
So that, the sample request would be:

https://www.facebook.com/dialog/oauth?response\_type=code&client\_id=861892077338685&redirect\_uri=https%3A%2F%2Flocalhost%3A8080%2Ffacebookapp%2Fcallback&scope=public\_profile

When you login, it will demonstrate the accompanying popup. We call this as the "Client Consent Page" in OAuth phrasing. In there, it will demonstrate what are the assets from the client account that this outer application would have the capacity to access in the interest of you.

When you Continue, facebook will divert the program to the Redirection Endpoint URL which you characterized in the application settings and alongside the URL, it will send the inquiry parameter code, which is the approval code. On the off chance that you had a customer site, you can extricate this parameter esteem from the webapp itself.

Right now, I don't have a customer web application, yet characterized a spurious URL as the Redirection Endpoint URL, so that in the program I won't see a website page. Be that as it may, I can basically physically extricate the approval code esteem got in the URL.

[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

Following is the URL I got in the browser.

https://localhost:8080/facebookapp/callback?code=**AQAYqQchMJQXu6pX0TlwxYVUX2kvw-lCbtPK0NzQ1rAjg4y3usjDM0EhN4g0ZnRQsUVKIocGW2LDMTOUTfeetc-bua6H7ECQylyudAO7WQrRxqhziNy67YnuC0jM8qI3Lx5rrvyA26-CZh53aq-2nDV4qIotRlapwAlCRIiAz4TGUeNoUCGVgCLUMOrNIlA\_CsmgqsavAUm041PRD-CCmMV\_0vRgrJrIE7sYiYV3W64ComCddAXhlBBB90J\_ofybL0RFMh0epG3p6wor7vj5TdC-nnhBTl4xhQcP7iYTPJ89u9YrqnPgpwmnhrEYoPr02cr8NhdjBWhc5lm7Uqf22W8mArp\_dyNdNFbaw1KqFqQF4w#\_=\_**

The value with Bold letters is the Authorization code obtained.

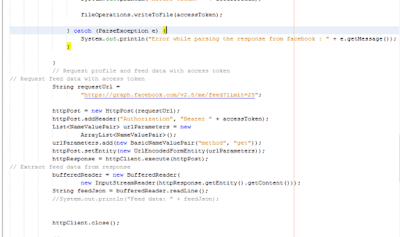
**Obtaining the Access Token**

Following stage is to ask for an OAuth get to token from facebook, which can be utilized to get to client assets (allowed with the degrees which we asked). For that, the customer web application needs to send a HTTP POST ask for to the Token Endpoint of facebook sending the approval code got in past advance. The Token Endpoint of facebook is:  https://graph.facebook.com/oauth/access\_token

[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

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[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

In the event that we don't have a customer web application running, we can physically do this and get the Access token. We have to send the accompanying parameters in the body of the HTTP POST ask.

grant\_type (authorization\_code)

client\_id (The App ID estimation of your application)

redirect\_uri (The Redirection Endpoint URL which you characterized in "Facebook Login" settings. This esteem ought to be URL encoded when sending with the demand)

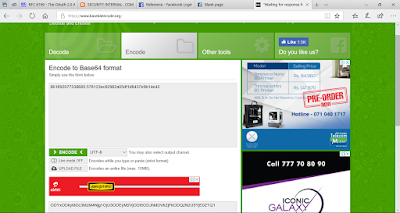
code (The approval code you got in past advance)

Notwithstanding that, we have to send accreditations of the facebook application (App ID and App Secret) in the HTTP Header. Here, we have to consolidate the App ID and Secret isolating them in a Colon (:) and the esteem ought to be encoded in Base64.

In the HTTP Headers, I need to add the Authorization header with the App credentials. For that I can prepare the value like this.

App ID = 985685364966980

App Secret = 1e8db9b75678e4c3417cef62a5156b95

[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

AppID:AppSecret = 985685364966980:1e8db9b75678e4c3417cef62a5156b95

Base64(AppID:AppSecret=

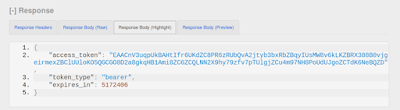
ODYxODkyMDc3MzM4Njg1OjU3ODEyM2VjODI5ODJhMDVkZjFkODQzN2U5YjE0ZTQ1

So, I can add the header as following.

Authorization:Basic

ODYxODkyMDc3MzM4Njg1OjU3ODEyM2VjODI5ODJhMDVkZjFkODQzN2U5YjE0ZTQ1

When sending the request, we can use a HTTP Client browser plugin like RESTClient or even page Inspect

[](https://www.blogger.com/blog/post/edit/4738862531123348203/9059096089338056297)

Receiving User resources form facebook using Access tokens.

Now that we have received the OAuth access token from facebook, we can retrieve user information using it.

**Appendix**

**/\*//////////////////////////////////////////////////////////////////**

**[ FONT ]\*/**

**@font-face {**

**font-family: SourceSansPro-Regular;**

**src: url('../fonts/source-sans-pro/SourceSansPro-Regular.ttf');**

**}**

**@font-face {**

**font-family: SourceSansPro-Bold;**

**src: url('../fonts/source-sans-pro/SourceSansPro-Bold.ttf');**

**}**

**@font-face {**

**font-family: SourceSansPro-SemiBold;**

**src: url('../fonts/source-sans-pro/SourceSansPro-SemiBold.ttf');**

**}**

**@font-face {**

**font-family: JosefinSans-Bold;**

**src: url('../fonts/JosefinSans/JosefinSans-Bold.ttf');**

**}**

**/\*//////////////////////////////////////////////////////////////////**

**[ RESTYLE TAG ]\*/**

**\* {**

**margin: 0px;**

**padding: 0px;**

**box-sizing: border-box;**

**}**

**body, html {**

**height: 100%;**

**font-family: SourceSansPro-Regular, sans-serif;**

**}**

**/\*---------------------------------------------\*/**

**a {**

**font-family: SourceSansPro-Regular;**

**font-size: 14px;**

**line-height: 1.7;**

**color: #666666;**

**margin: 0px;**

**transition: all 0.4s;**

**-webkit-transition: all 0.4s;**

**-o-transition: all 0.4s;**

**-moz-transition: all 0.4s;**

**}**

**a:focus {**

**outline: none !important;**

**}**

**a:hover {**

**text-decoration: none;**

**}**

**/\*---------------------------------------------\*/**

**h1,h2,h3,h4,h5,h6 {**

**margin: 0px;**

**}**

**p {**

**font-family: SourceSansPro-Regular;**

**font-size: 14px;**

**line-height: 1.7;**

**color: #666666;**

**margin: 0px;**

**}**

**ul, li {**

**margin: 0px;**

**list-style-type: none;**

**}**

**/\*---------------------------------------------\*/**

**input {**

**outline: none;**

**border: none;**

**}**

**textarea {**

**outline: none;**

**border: none;**

**}**

**textarea:focus, input:focus {**

**border-color: transparent !important;**

**}**

**input::-webkit-input-placeholder { color: #4b2354;}**

**input:-moz-placeholder { color: #4b2354;}**

**input::-moz-placeholder { color: #4b2354;}**

**input:-ms-input-placeholder { color: #4b2354;}**

**textarea::-webkit-input-placeholder { color: #4b2354;}**

**textarea:-moz-placeholder { color: #4b2354;}**

**textarea::-moz-placeholder { color: #4b2354;}**

**textarea:-ms-input-placeholder { color: #4b2354;}**

**/\*---------------------------------------------\*/**

**button {**

**outline: none !important;**

**border: none;**

**background: transparent;**

**}**

**button:hover {**

**cursor: pointer;**

**}**

**iframe {**

**border: none !important;**

**}**

**/\*//////////////////////////////////////////////////////////////////**

**[ Utility ]\*/**

**.txt1 {**

**font-family: SourceSansPro-Regular;**

**font-size: 16px;**

**line-height: 1.4;**

**color: #999999;**

**}**

**.txt2 {**

**font-family: SourceSansPro-Regular;**

**font-size: 16px;**

**line-height: 1.4;**

**color: #4b2354;**

**}**

**.hov1:hover {**

**color: #4b2354;**

**text-decoration: underline;**

**}**

**/\*//////////////////////////////////////////////////////////////////**

**[ login ]\*/**

**.container-login100 {**

**width: 100%;**

**min-height: 100vh;**

**display: -webkit-box;**

**display: -webkit-flex;**

**display: -moz-box;**

**display: -ms-flexbox;**

**display: flex;**

**flex-wrap: wrap;**

**justify-content: center;**

**align-items: center;**

**padding: 15px;**

**background-repeat: no-repeat;**

**background-size: cover;**

**background-position: center;**

**position: relative;**

**z-index: 1;**

**}**

**.container-login100::before {**

**content: "";**

**display: block;**

**position: absolute;**

**z-index: -1;**

**width: 100%;**

**height: 100%;**

**top: 0;**

**left: 0;**

**background: rgba(93,84,240,0.5);**

**background: -webkit-linear-gradient(left, rgba(0,168,255,0.5), rgba(185,0,255,0.5));**

**background: -o-linear-gradient(left, rgba(0,168,255,0.5), rgba(185,0,255,0.5));**

**background: -moz-linear-gradient(left, rgba(0,168,255,0.5), rgba(185,0,255,0.5));**

**background: linear-gradient(left, rgba(0,168,255,0.5), rgba(185,0,255,0.5));**

**pointer-events: none;**

**}**

**.wrap-login100 {**

**width: 390px;**

**background: #fff;**

**border-radius: 10px;**

**overflow: hidden;**

**box-shadow: 0 3px 20px 0px rgba(0, 0, 0, 0.1);**

**-moz-box-shadow: 0 3px 20px 0px rgba(0, 0, 0, 0.1);**

**-webkit-box-shadow: 0 3px 20px 0px rgba(0, 0, 0, 0.1);**

**-o-box-shadow: 0 3px 20px 0px rgba(0, 0, 0, 0.1);**

**-ms-box-shadow: 0 3px 20px 0px rgba(0, 0, 0, 0.1);**

**}**

**/\*==================================================================**

**[ Form ]\*/**

**.login100-form {**

**width: 100%;**

**}**

**.login100-form-title {**

**display: block;**

**font-family: SourceSansPro-Bold;**

**font-size: 30px;**

**color: #4b2354;**

**line-height: 1.2;**

**text-align: center;**

**}**

**/\*------------------------------------------------------------------**

**[ Input ]\*/**

**.wrap-input100 {**

**width: 100%;**

**position: relative;**

**background-color: #fff;**

**border-radius: 20px;**

**}**

**.input100 {**

**font-family: SourceSansPro-Bold;**

**font-size: 16px;**

**color: #4b2354;**

**line-height: 1.2;**

**display: block;**

**width: 100%;**

**height: 62px;**

**background: transparent;**

**padding: 0 20px 0 23px;**

**}**

**/\*------------------------------------------------------------------**

**[ Focus Input ]\*/**

**.focus-input100 {**

**display: block;**

**position: absolute;**

**width: 100%;**

**height: 100%;**

**top: 0;**

**left: 0;**

**pointer-events: none;**

**border-radius: 20px;**

**box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.1);**

**-moz-box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.1);**

**-webkit-box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.1);**

**-o-box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.1);**

**-ms-box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.1);**

**-webkit-transition: all 0.4s;**

**-o-transition: all 0.4s;**

**-moz-transition: all 0.4s;**

**transition: all 0.4s;**

**}**

**.input100:focus + .focus-input100 {**

**box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.2);**

**-moz-box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.2);**

**-webkit-box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.2);**

**-o-box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.2);**

**-ms-box-shadow: 0 5px 30px 0px rgba(0, 0, 0, 0.2);**

**}**

**/\*------------------------------------------------------------------**

**[ Button ]\*/**

**.container-login100-form-btn {**

**width: 100%;**

**display: -webkit-box;**

**display: -webkit-flex;**

**display: -moz-box;**

**display: -ms-flexbox;**

**display: flex;**

**flex-wrap: wrap;**

**justify-content: center;**

**}**

**.login100-form-btn {**

**display: -webkit-box;**

**display: -webkit-flex;**

**display: -moz-box;**

**display: -ms-flexbox;**

**display: flex;**

**justify-content: center;**

**align-items: center;**

**padding: 0 20px;**

**min-width: 160px;**

**height: 50px;**

**background-color: #bd59d4;**

**border-radius: 25px;**

**font-family: SourceSansPro-SemiBold;**

**font-size: 14px;**

**color: #fff;**

**line-height: 1.2;**

**text-transform: uppercase;**

**-webkit-transition: all 0.4s;**

**-o-transition: all 0.4s;**

**-moz-transition: all 0.4s;**

**transition: all 0.4s;**

**box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.5);**

**-moz-box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.5);**

**-webkit-box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.5);**

**-o-box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.5);**

**-ms-box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.5);**

**}**

**.login100-form-btn:hover {**

**background-color: #4b2354;**

**box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.8);**

**-moz-box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.8);**

**-webkit-box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.8);**

**-o-box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.8);**

**-ms-box-shadow: 0 10px 30px 0px rgba(189, 89, 212, 0.8);**

**}**

**/\*------------------------------------------------------------------**

**[ Alert validate ]\*/**

**.validate-input {**

**position: relative;**

**}**

**.alert-validate .focus-input100 {**

**box-shadow: 0 5px 30px 0px rgba(250, 66, 81, 0.1);**

**-moz-box-shadow: 0 5px 30px 0px rgba(250, 66, 81, 0.1);**

**-webkit-box-shadow: 0 5px 30px 0px rgba(250, 66, 81, 0.1);**

**-o-box-shadow: 0 5px 30px 0px rgba(250, 66, 81, 0.1);**

**-ms-box-shadow: 0 5px 30px 0px rgba(250, 66, 81, 0.1);**

**}**

**.alert-validate::before {**

**content: attr(data-validate);**

**display: -webkit-box;**

**display: -webkit-flex;**

**display: -moz-box;**

**display: -ms-flexbox;**

**display: flex;**

**align-items: center;**

**position: absolute;**

**width: 100%;**

**min-height: 62px;**

**background-color: #fff;**

**border-radius: 20px;**

**top: 0px;**

**left: 0px;**

**padding: 0 45px 0 22px;**

**pointer-events: none;**

**font-family: SourceSansPro-Bold;**

**font-size: 16px;**

**color: #fa4251;**

**line-height: 1.2;**

**}**

**.btn-hide-validate {**

**font-family: Material-Design-Iconic-Font;**

**font-size: 15px;**

**color: #fa4251;**

**cursor: pointer;**

**display: -webkit-box;**

**display: -webkit-flex;**

**display: -moz-box;**

**display: -ms-flexbox;**

**display: flex;**

**align-items: center;**

**justify-content: center;**

**position: absolute;**

**height: 62px;**

**top: 0px;**

**right: 23px;**

**}**

**.rs1-alert-validate.alert-validate::before {**

**background-color: #fff;**

**}**

**.true-validate::after {**

**content: "\f269";**

**font-family: Material-Design-Iconic-Font;**

**font-size: 15px;**

**color: #57b846;**

**display: -webkit-box;**

**display: -webkit-flex;**

**display: -moz-box;**

**display: -ms-flexbox;**

**display: flex;**

**align-items: center;**

**justify-content: center;**

**position: absolute;**

**height: 62px;**

**top: 0px;**

**right: 23px;**

**}**

**/\*//////////////////////////////////////////////////////////////////**

**[ Social item ]\*/**

**.login100-social-item {**

**font-size: 25px;**

**color: #3b5998;**

**display: -webkit-box;**

**display: -webkit-flex;**

**display: -moz-box;**

**display: -ms-flexbox;**

**display: flex;**

**justify-content: center;**

**align-items: center;**

**width: 50px;**

**height: 50px;**

**border-radius: 50%;**

**background-color: #fff;**

**margin: 5px;**

**box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.1);**

**-moz-box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.1);**

**-webkit-box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.1);**

**-o-box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.1);**

**-ms-box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.1);**

**}**

**.login100-social-item img {**

**width: 26px;**

**}**

**.login100-social-item:hover {**

**color: #3b5998;**

**box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.2);**

**-moz-box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.2);**

**-webkit-box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.2);**

**-o-box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.2);**

**-ms-box-shadow: 0 5px 20px 0px rgba(0, 0, 0, 0.2);**

**}**

**/\*//////////////////////////////////////////////////////////////////**

**[ Responsive ]\*/**

**@media (max-width: 480px) {**

**.wrap-login100 {**

**padding-left: 15px;**

**padding-right: 15px;**

**}**

**}**

**JS**

**(function ($) {**

**"use strict";**

**/\*==================================================================**

**[ Validate after type ]\*/**

**$('.validate-input .input100').each(function(){**

**$(this).on('blur', function(){**

**if(validate(this) == false){**

**showValidate(this);**

**}**

**else {**

**$(this).parent().addClass('true-validate');**

**}**

**})**

**})**

**/\*==================================================================**

**[ Validate ]\*/**

**var input = $('.validate-input .input100');**

**$('.validate-form').on('submit',function(){**

**var check = true;**

**for(var i=0; i<input.length; i++) {**

**if(validate(input[i]) == false){**

**showValidate(input[i]);**

**check=false;**

**}**

**}**

**return check;**

**});**

**$('.validate-form .input100').each(function(){**

**$(this).focus(function(){**

**hideValidate(this);**

**$(this).parent().removeClass('true-validate');**

**});**

**});**

**function validate (input) {**

**if($(input).attr('type') == 'email' || $(input).attr('name') == 'email') {**

**if($(input).val().trim().match(/^([a-zA-Z0-9\_\-\.]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([a-zA-Z0-9\-]+\.)+))([a-zA-Z]{1,5}|[0-9]{1,3})(\]?)$/) == null) {**

**return false;**

**}**

**}**

**else {**

**if($(input).val().trim() == ''){**

**return false;**

**}**

**}**

**}**

**function showValidate(input) {**

**var thisAlert = $(input).parent();**

**$(thisAlert).addClass('alert-validate');**

**$(thisAlert).append('<span class="btn-hide-validate">&#xf135;</span>')**

**$('.btn-hide-validate').each(function(){**

**$(this).on('click',function(){**

**hideValidate(this);**

**});**

**});**

**}**

**function hideValidate(input) {**

**var thisAlert = $(input).parent();**

**$(thisAlert).removeClass('alert-validate');**

**$(thisAlert).find('.btn-hide-validate').remove();**

**}**

**})(jQuery);**

**Config**

**<?php**

**session\_start();**

**require\_once "Facebook/autoload.php";**

**//Replace the app\_id,app\_secret with yours.**

**$FB = new \Facebook\Facebook([**

**'app\_id' => '985685364966980',**

**'app\_secret' => '1e8db9b75678e4c3417cef62a5156b95',**

**'default\_graph\_version' => 'v3.0'**

**]);**

**$helper = $FB->getRedirectLoginHelper();**

**?>**

**Fbcallback**

**<?php**

**require\_once "config.php";**

**try {**

**$accessToken = $helper->getAccessToken();**

**} catch (\Facebook\Exceptions\FacebookResponseException $e) {**

**echo "Response Exception: " . $e->getMessage();**

**exit();**

**} catch (\Facebook\Exceptions\FacebookSDKException $e) {**

**echo "SDK Exception: " . $e->getMessage();**

**exit();**

**}**

**if (!$accessToken) {**

**header('Location: login.php');**

**exit();**

**}**

**$oAuth2Client = $FB->getOAuth2Client();**

**if (!$accessToken->isLongLived())**

**$accessToken = $oAuth2Client->getLongLivedAccessToken($accessToken);**

**//Getting Tokens;**

**$response = $FB->get("/me?fields=id, first\_name, last\_name,email, picture.type(large)", $accessToken);**

**$userData = $response->getGraphNode()->asArray();**

**//var\_dump($userData);**

**$\_SESSION['userData'] = $userData;**

**$\_SESSION['access\_token'] = (string) $accessToken;**

**header('Location: index.php');**

**exit();**

**?>**

**Index**

**<?php**

**session\_start();**

**if (!isset($\_SESSION['access\_token'])) {**

**header('Location: login.php');**

**exit();**

**}**

**?>**

**<!doctype html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport"**

**content="width=device-width, user-scalable=no, initial-scale=1.0, maximum-scale=1.0, minimum-scale=1.0">**

**<meta http-equiv="X-UA-Compatible" content="ie=edge">**

**<title>User Profile</title>**

**<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/css/bootstrap.min.css" integrity="sha384-/Y6pD6FV/Vv2HJnA6t+vslU6fwYXjCFtcEpHbNJ0lyAFsXTsjBbfaDjzALeQsN6M" crossorigin="anonymous">**

**</head>**

**<style>**

**body {**

**width: 100%;**

**height:100%;**

**font-family: 'Open Sans', sans-serif;**

**background: white;**

**color: black;**

**}**

**</style>**

**<body>**

**<div class="container" style="margin-top: 100px">**

**<div class="row justify-content-center">**

**<div class="col-md-3">**

**<img src="<?php echo $\_SESSION['userData']['picture']['url'] ?>"><br><br>**

**<p style="color:blue;">Logged in as: <?php echo $\_SESSION['userData']['first\_name'] ?> <?php echo $\_SESSION['userData']['last\_name'] ?> </p>**

**</div>**

**<div class="col-md-9">**

**<table class="table table-hover table-bordered">**

**<tbody>**

**<tr>**

**<td>ID</td>**

**<td><?php echo $\_SESSION['userData']['id'] ?></td>**

**</tr>**

**<tr>**

**<td>First Name</td>**

**<td><?php echo $\_SESSION['userData']['first\_name'] ?></td>**

**</tr>**

**<tr>**

**<td>Last Name</td>**

**<td><?php echo $\_SESSION['userData']['last\_name'] ?></td>**

**</tr>**

**<tr>**

**<td>Email</td>**

**<td><?php echo $\_SESSION['userData']['email'] ?></td>**

**</tr>**

**</tbody>**

**</table>**

**<input type="button" onclick="window.location.href='logout.php'" value="Logout" class="btn btn-primary" style="float:right;"><br> <br> <br> <br>**

**<style> hr { background-color: gray; height: 1px; border: 0; } </style> <hr>**

**For more info: <a href="https://oauthexplained.blogspot.com/2018/10/app-development-with-oauth-20-framework.html" target="\_blank" style="color:#CD3700"> www.fzrsec.blogspot.com</a><br>**

**</div>**

**</div>**

**</div>**

**</body>**

**</html>**

**Login**

**<?php**

**require\_once "config.php";**

**if (isset($\_SESSION['access\_token'])) {**

**header('Location: index.php');**

**exit();**

**}**

**//Change the url according to you location.**

**$redirectURL = "http://localhost/SSS/OAuth/fbcallback.php";**

**$permissions = ['email'];**

**$loginURL = $helper->getLoginUrl($redirectURL, $permissions);**

**?>**

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<title>Login V9</title>**

**<meta charset="UTF-8">**

**<script type="text/javascript" src="config.js"> </script>**

**<meta name="viewport" content="width=device-width, initial-scale=1">**

**<!--===============================================================================================-->**

**<link rel="icon" type="image/png" href="images/icons/favicon.ico"/>**

**<!--===============================================================================================-->**

**<link rel="stylesheet" type="text/css" href="vendor/bootstrap/css/bootstrap.min.css">**

**<!--===============================================================================================-->**

**<link rel="stylesheet" type="text/css" href="fonts/font-awesome-4.7.0/css/font-awesome.min.css">**

**<!--===============================================================================================-->**

**<link rel="stylesheet" type="text/css" href="fonts/iconic/css/material-design-iconic-font.min.css">**

**<!--===============================================================================================-->**

**<link rel="stylesheet" type="text/css" href="vendor/animate/animate.css">**

**<!--===============================================================================================-->**

**<link rel="stylesheet" type="text/css" href="vendor/css-hamburgers/hamburgers.min.css">**

**<!--===============================================================================================-->**

**<link rel="stylesheet" type="text/css" href="vendor/animsition/css/animsition.min.css">**

**<!--===============================================================================================-->**

**<link rel="stylesheet" type="text/css" href="vendor/select2/select2.min.css">**

**<!--===============================================================================================-->**

**<link rel="stylesheet" type="text/css" href="vendor/daterangepicker/daterangepicker.css">**

**<!--===============================================================================================-->**

**<link rel="stylesheet" type="text/css" href="css/util.css">**

**<link rel="stylesheet" type="text/css" href="css/main.css">**

**<!--===============================================================================================-->**

**</head>**

**<body>**

**<div class="container-login100" style="background-image: url('images/bg-01.jpg');">**

**<div class="wrap-login100 p-l-55 p-r-55 p-t-80 p-b-30">**

**<form class="login100-form validate-form">**

**<span class="login100-form-title p-b-37">**

**Sign In**

**</span>**

**<div class="wrap-input100 validate-input m-b-20" data-validate="Enter username or email">**

**<input class="input100" type="text" name="username" placeholder="username or email">**

**<span class="focus-input100"></span>**

**</div>**

**<div class="wrap-input100 validate-input m-b-25" data-validate = "Enter password">**

**<input class="input100" type="password" name="pass" placeholder="password">**

**<span class="focus-input100"></span>**

**</div>**

**<div class="container-login100-form-btn">**

**<button class="login100-form-btn" onclick="loginAlert()">**

**Login**

**</button>**

**</div>**

**<div class="text-center p-t-57 p-b-20">**

**<span class="txt1">**

**Or login with**

**</span>**

**</div>**

**<div class="flex-c p-b-112">**

**<a href="#" class="login100-social-item">**

**<i class="fa fa-facebook-f" onclick="window.location = '<?php echo $loginURL ?>';" class="fbcontainer"></i>**

**</a>**

**</div>**

**<div class="text-center">**

**<a href="#" class="txt2 hov1">**

**Sign Up**

**</a>**

**</div>**

**</form>**

**</div>**

**</div>**

**<div id="dropDownSelect1"></div>**

**<!--===============================================================================================-->**

**<script src="vendor/jquery/jquery-3.2.1.min.js"></script>**

**<!--===============================================================================================-->**

**<script src="vendor/animsition/js/animsition.min.js"></script>**

**<!--===============================================================================================-->**

**<script src="vendor/bootstrap/js/popper.js"></script>**

**<script src="vendor/bootstrap/js/bootstrap.min.js"></script>**

**<!--===============================================================================================-->**

**<script src="vendor/select2/select2.min.js"></script>**

**<!--===============================================================================================-->**

**<script src="vendor/daterangepicker/moment.min.js"></script>**

**<script src="vendor/daterangepicker/daterangepicker.js"></script>**

**<!--===============================================================================================-->**

**<script src="vendor/countdowntime/countdowntime.js"></script>**

**<!--===============================================================================================-->**

**<script src="js/main.js"></script>**

**<script>**

**function loginAlert() {**

**alert("Failed: Email or password you entered is incorrect.");**

**}**

**</script>**

**</body>**

**</html>**

**Logout**

**<!––Logout page -->**

**<?php**

**session\_start();**

**session\_unset();**

**session\_destroy();**

**require 'login.php';**

**header('Location:login.php');**

**?>**