

# 1 Authenticatie via Sociale media (bv google en facebook)

## 1.1 Installeer NuGet Packages

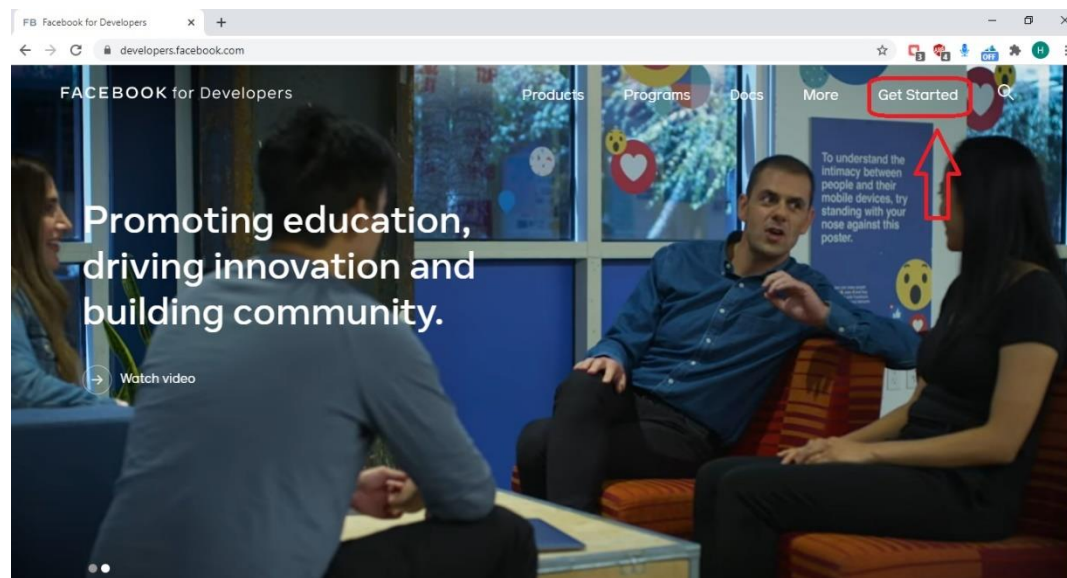
**Microsoft.AspNetCore.Authentication.Facebook**

**Microsoft.AspNetCore.Authentication.Google**

## 1.2 Creatie van Facebook App ID

Ga naar <https://developers.facebook.com/products/facebook-login/>

En klik op de link onder 'Get started':



Log in op Facebook en creëer een nieuw App ID:

## Create a New App ID

Get started integrating Facebook into your app or website

Display Name

Pittid

Contact Email

hcoppieters@hotmail.com

This email address is used to contact you about potential policy violations, app restrictions or steps to recover the app if it's been deleted or compromised.

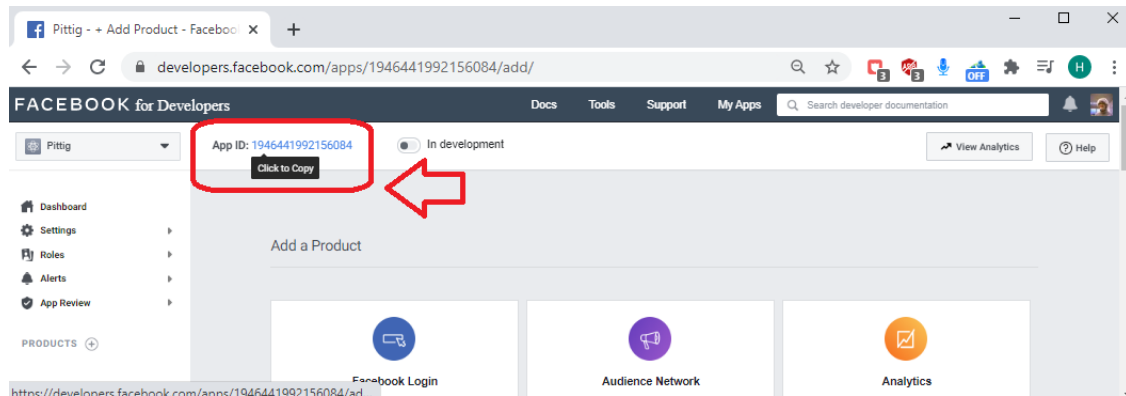
By proceeding, you agree to the Facebook Platform Policies

Cancel

Create App ID

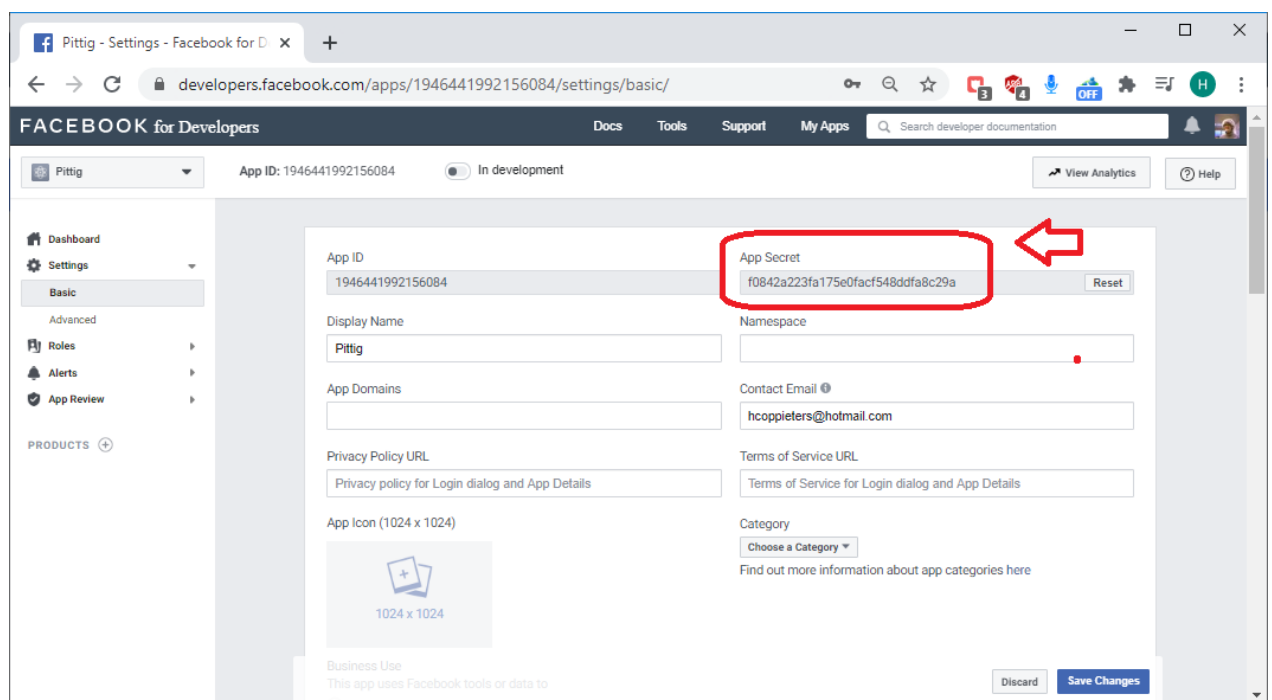
### 1.3 Toevoegen van Facebook Authentication service aan startup.cs (ConfigureServices methode):

**Kopieer de App ID die is aangemaakt:**



<https://developers.facebook.com/apps/1946441992156084/dashboard/>

**Kies in het menu aan de linkerkant onder Settings/basic en kopieer de App Secret:**



**Open Startup.cs en voeg de volgende code toe (met de gekopieerde AppId en AppSecret) aan ConfigureServices:**

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddDbContext<ApplicationContext>(opts =>
opts.UseSqlServer(Configuration.GetConnectionString("sqlConnection")));

    services.AddIdentity<User, IdentityRole>(opt =>
    {
        opt.Password.RequiredLength = 7;
        opt.Password.RequireDigit = false;
        opt.Password.RequireUppercase = false;
        opt.Password.RequireNonAlphanumeric = false;

        opt.User.RequireUniqueEmail = true;

        opt.SignIn.RequireConfirmedEmail = true;

        opt.Tokens.EmailConfirmationTokenProvider = "emailconfirmation";

        opt.Lockout.AllowedForNewUsers = true;
        opt.Lockout.DefaultLockoutTimeSpan = TimeSpan.FromMinutes(2);
        opt.Lockout.MaxFailedAccessAttempts = 3;
    })
    .AddEntityFrameworkStores<ApplicationContext>()
    .AddDefaultTokenProviders()

.AddTokenProvider<EmailConfirmationTokenProvider<User>>("emailconfirmation")
    .AddPasswordValidator<CustomPasswordValidator<User>>());

    services.Configure<DataProtectionTokenProviderOptions>(opt =>
        opt.TokenLifespan = TimeSpan.FromHours(2));

    services.Configure<EmailConfirmationTokenProviderOptions>(opt =>
        opt.TokenLifespan = TimeSpan.FromDays(3));

    services.AddScoped<IUserClaimsPrincipalFactory<User>,
CustomClaimsFactory>());

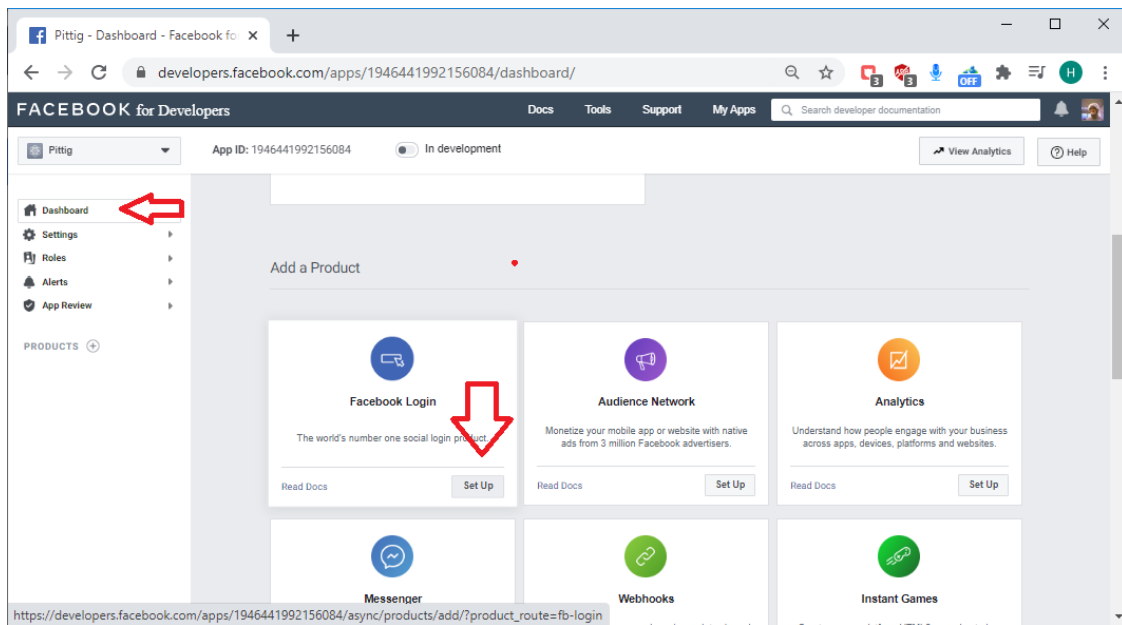
    services.AddAuthentication().AddFacebook(facebookOptions =>
    {
        facebookOptions.AppId = "1946441992156084";
        facebookOptions.AppSecret = "f0842a223fa175e0facf548ddfa8c29a";
    });

    services.AddAutoMapper(typeof(Startup));

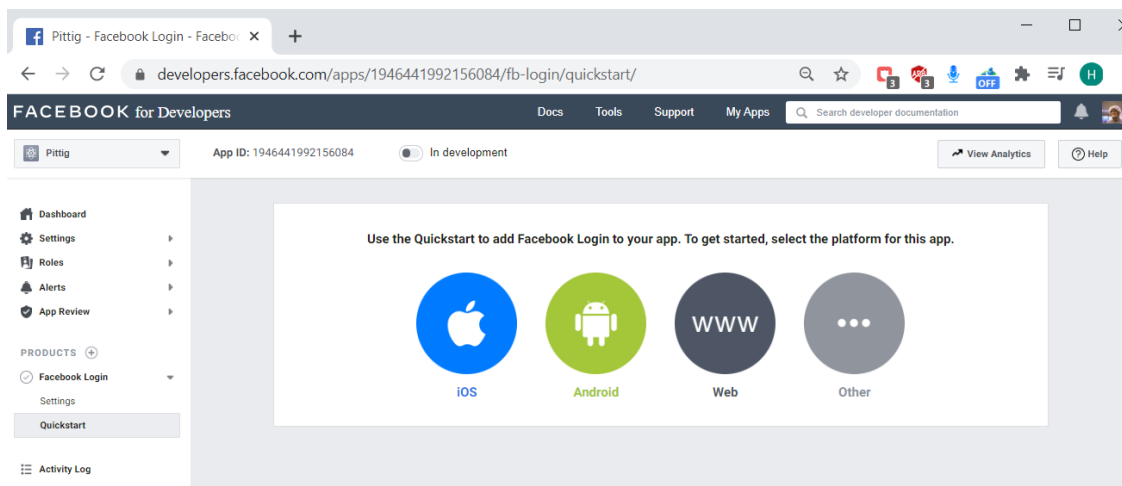
    var emailConfig = Configuration
        .GetSection("EmailConfiguration")
        .Get<EmailConfiguration>();
    services.AddSingleton(emailConfig);
    services.AddScoped<IEmailSender, EmailSender>();

    services.AddControllersWithViews();
}
```

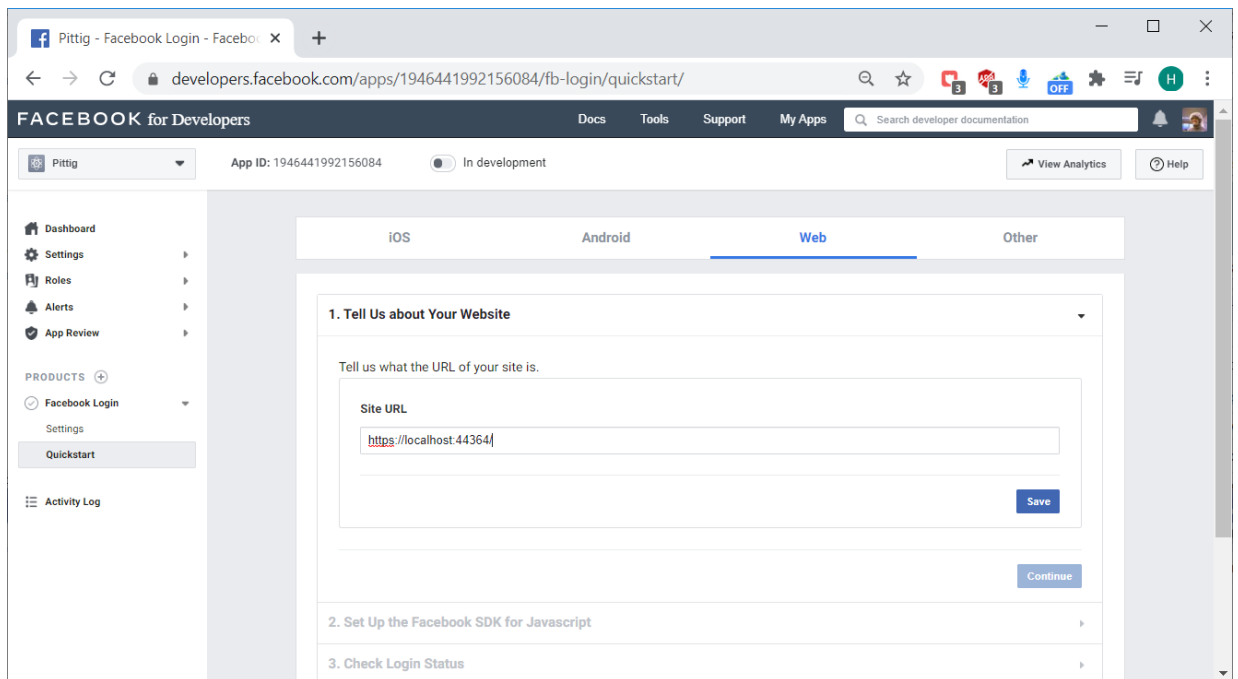
Op de facebook developer dashboard pagina, klik op de 'Set up' button bij Facebook Login:



Klik op WWW (web):

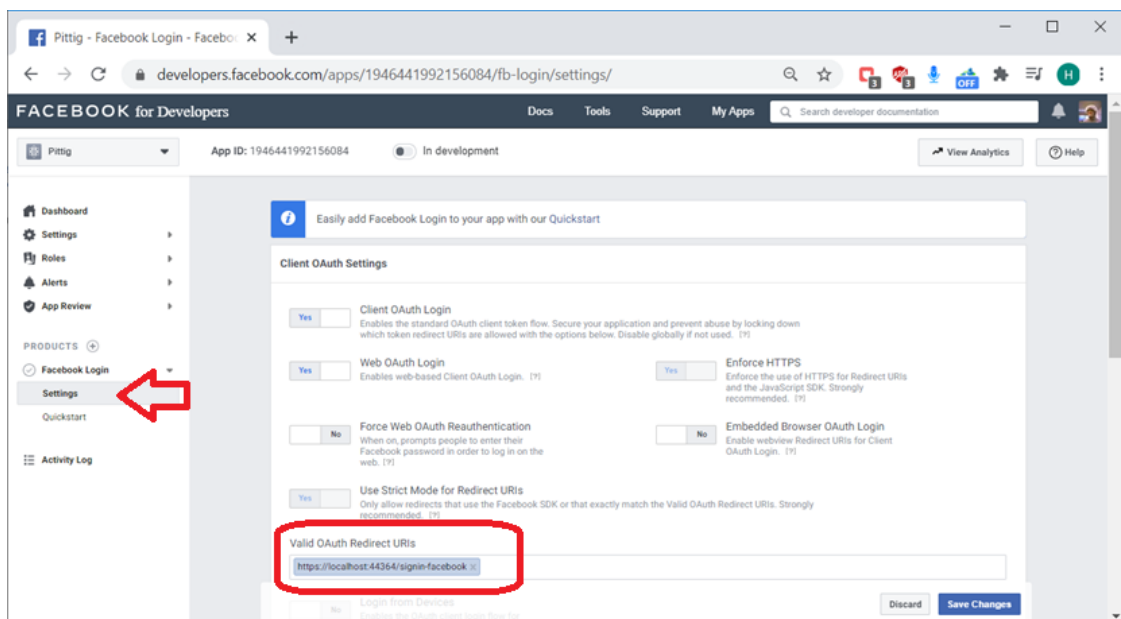


**Zet de URL van je website en klik op Save:**



**Ga naar Settingspagina onder Facebook login en zet de return URL op je website nadat er is ingelogd op facebook:**

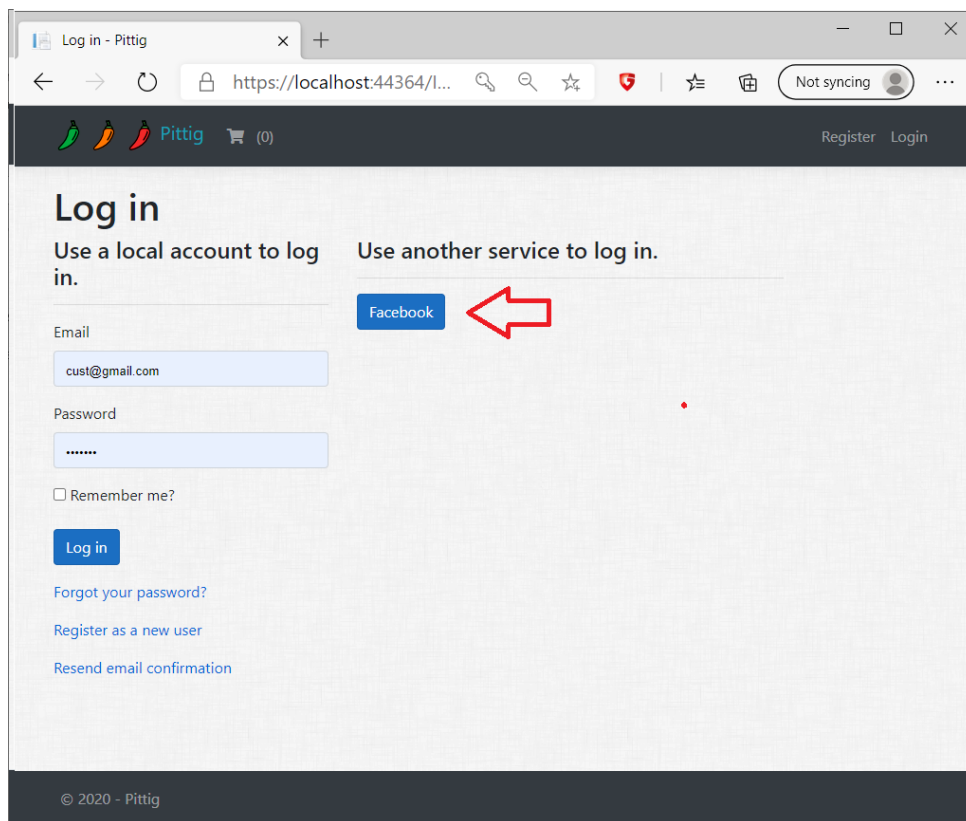
<https://localhost:44316/signin-facebook>



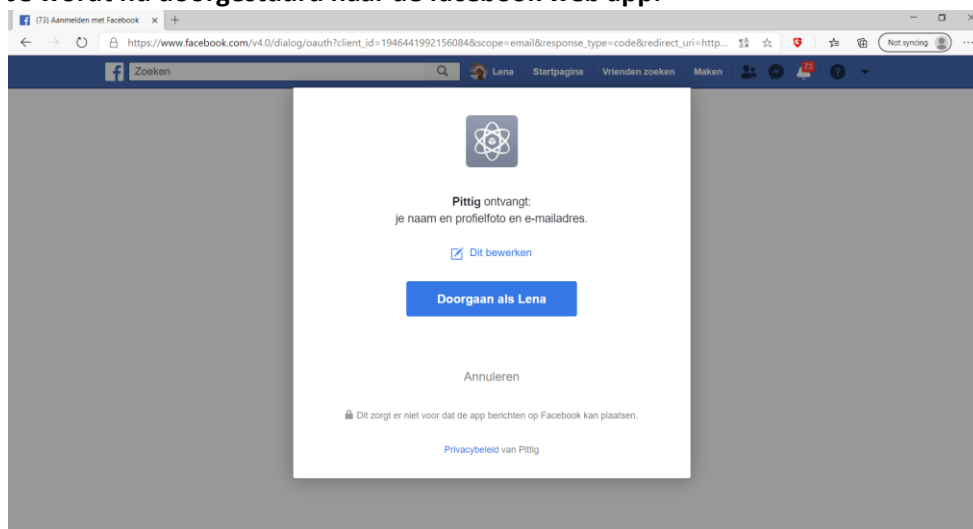
**Klik op de button 'Save changes'**

## 1.4 Testen van Facebook Authenticatie

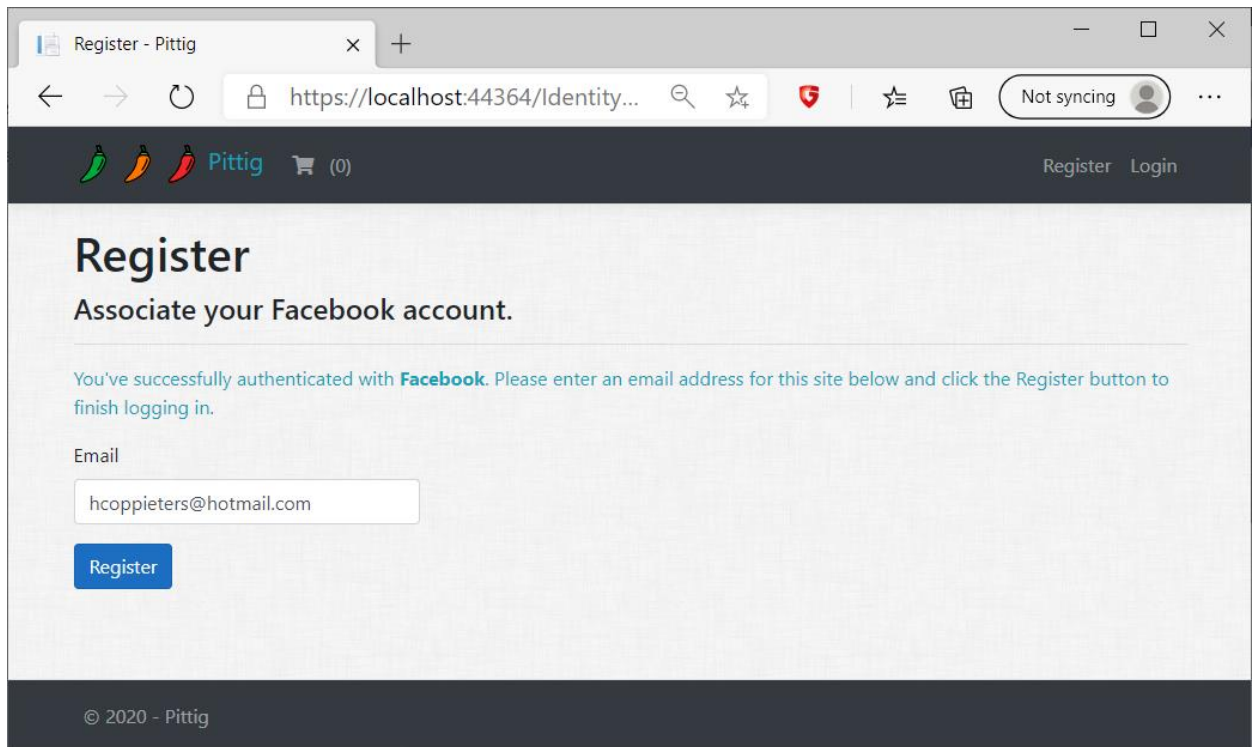
1. Run je app en ga naar de login pagina  
Klik op de button 'Facebook'



2. Je wordt nu doorgestuurd naar de facebook web app.



3. Nadat je geklikt hebt op 'Doorgaan als..,' word je teruggestuurd naar je website (de Return URL dat je hebt gegeven op facebook):



## 1.5 Google login

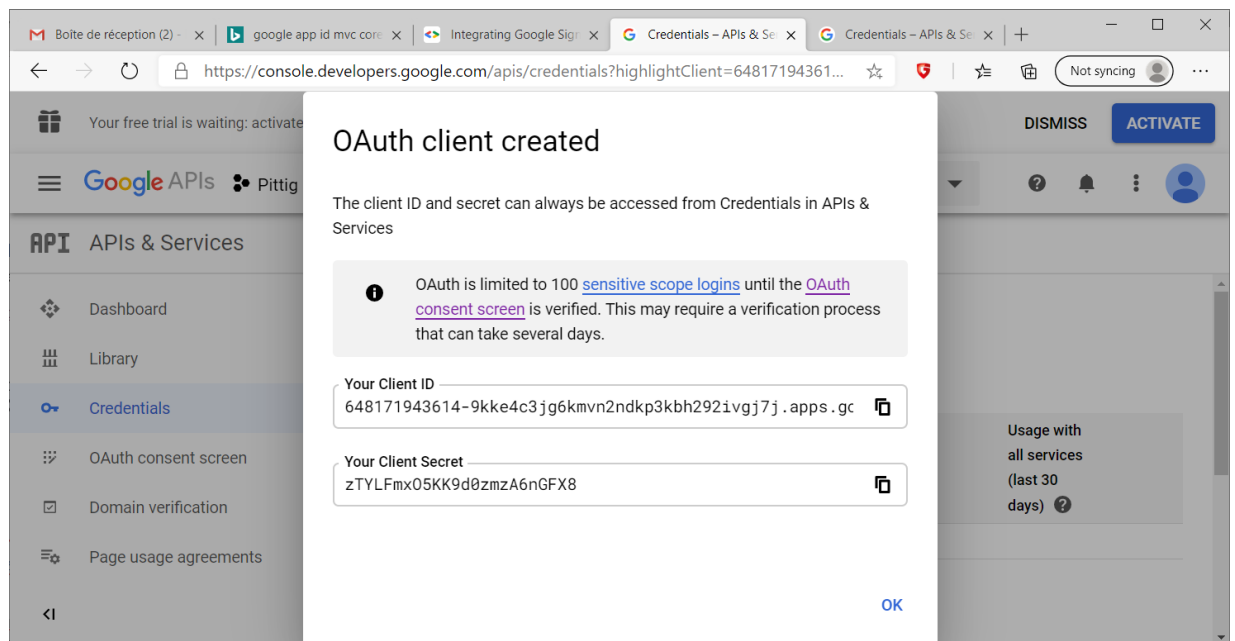
De methode is gelijkaardig als facebook

Start vanaf deze pagina:

<https://developers.google.com/identity/sign-in/web/sign-in>

En volg deze stappen:

1. Go to the [Credentials page](#).
2. Click **Create credentials > OAuth client ID**.
3. Select the **Web application** application type.
4. Name your OAuth 2.0 client and click **Create**  
(Er wordt dan gevraagd om eerst een OAuth consent screen aan te maken)





## Zet de Return URL na login bij google:

APIs & Services

Client ID for Web application

DOWNLOAD JSON RESET SECRET DELETE

Name \*  
Web App PittigMVC  
The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users.

The domains of the URIs you add below will be automatically added to your OAuth consent screen as [authorized domains](#).

Authorized JavaScript origins  
For use with requests from a browser  
+ ADD URI

Authorized redirect URIs  
For use with requests from a web server

URIs  
https://localhost:44364/signin-google  
+ ADD URI

SAVE CANCEL

Client ID	648171943614-9k4e4c3jg6kxmn2ndip3kbh292vgj7j.apps.googleusercontent.com
Client secret	zTYLFmx05KK9d0zmzA6nGFX8
Creation date	June 25, 2020 at 3:43:05 PM GMT+2

Open appSettings.json en voeg google authentication settings toe voor ClientId (deze is de Customer ID van google) en ClientSecret:

```
{
  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft": "Warning",
      "Microsoft.Hosting.Lifetime": "Information"
    }
  },
  "ConnectionStrings": {
    "sqlConnection": "server=.; database=DemoIdentitySocialLogin; Integrated Security=true"
  },
  "EmailConfiguration": {
    "From": "hcobpo@gmail.com",
    "SmtpServer": "smtp.gmail.com",
    "Port": 587,
    "Username": "hcobpo@gmail.com",
    "Password": "*****"
  },
  "Authentication": {
    "Google": {
      "ClientId": "648171943614-671n1c6j20ktru584s97rps3m2i7iuqd.apps.googleusercontent.com",
      "ClientSecret": "IA4kXrw5tPZWdvzuAzmfJxMZ"
    }
  },
  "AllowedHosts": "*"
}
```

RPI API and services

Client ID for Web Application [DOWNLOAD THE JSON FILE](#) [RESET SECRET CODE](#) [REMOVE](#)

Dashboard

Library

Identifiants

Écran d'autorisation OAuth

Validation du domaine

User agreements page

Last name \*  
Web client 2

The name of your OAuth 2.0 client. This name is only used to identify the client in the console. It is not visible to end users.

The domains of the URIs you add below will automatically be placed in your OAuth authorization screen as [allowed domains](#).

Allowed JavaScript origins

For use with requests from a browser

+ ADD URI

Allowed redirect URIs

For use with requests from a web server

URI

<https://localhost:44316/signin-google>

Customer ID: 648171943614-671n1c6j20ktru584e97rps3m2i7luqd.apps.googleusercontent.com

Client secret code: IA4kXrw5tPZw0vzuAzmfJxkMZ

Creation date: June 25, 2020 at 21:04:46 GMT + 2

Open Startup.cs en voeg de volgende lijnen toe aan configureServices:

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddDbContext<ApplicationContext>(opts =>
opts.UseSqlServer(Configuration.GetConnectionString("sqlConnection")));

    services.AddIdentity<User, IdentityRole>(opt =>
    {
        opt.Password.RequiredLength = 7;
        opt.Password.RequireDigit = false;
        opt.Password.RequireUppercase = false;
        opt.Password.RequireNonAlphanumeric = false;

        opt.User.RequireUniqueEmail = true;

        opt.SignIn.RequireConfirmedEmail = true;

        opt.Tokens.EmailConfirmationTokenProvider = "emailconfirmation";

        opt.Lockout.AllowedForNewUsers = true;
        opt.Lockout.DefaultLockoutTimeSpan = TimeSpan.FromMinutes(2);
        opt.Lockout.MaxFailedAccessAttempts = 3;
    })
    .AddEntityFrameworkStores<ApplicationContext>()
    .AddDefaultTokenProviders()
    .AddTokenProvider<EmailConfirmationTokenProvider<User>>("emailconfirmation")
    .AddPasswordValidator<CustomPasswordValidator<User>>());

    services.Configure<DataProtectionTokenProviderOptions>(opt =>
        opt.TokenLifespan = TimeSpan.FromHours(2));

    services.Configure<EmailConfirmationTokenProviderOptions>(opt =>
        opt.TokenLifespan = TimeSpan.FromDays(3));

    services.AddScoped<IUserClaimsPrincipalFactory<User>,
CustomClaimsFactory>());
}
```

```

services.AddAuthentication()
    .AddGoogle("google", opt =>
    {
        var googleAuth =
Configuration.GetSection("Authentication:Google");

        opt.ClientId = googleAuth["ClientId"];
        opt.ClientSecret = googleAuth["ClientSecret"];
        opt.SignInScheme = IdentityConstants.ExternalScheme;
    });

services.AddAuthentication().AddFacebook(facebookOptions =>
{
    facebookOptions.AppId = "1946441992156084";
    facebookOptions.AppSecret = "f0842a223fa175e0facf548ddfa8c29a";
});
//https://developers.facebook.com/apps/1946441992156084/settings/basic/
services.AddAutoMapper(typeof(Startup));

var emailConfig = Configuration
    .GetSection("EmailConfiguration")
    .Get<EmailConfiguration>();
services.AddSingleton(emailConfig);
services.AddScoped<IEmailSender, EmailSender>();

services.AddControllersWithViews();
}

```

## 1.6 Testen van Google Authenticatie

### 4. Run je app en ga naar de login pagina

Klik op de button 'Facebook'

## 2 Referenties

<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/social/?view=aspnetcore-5.0&tabs=visual-studio>

<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/social/facebook-logins?view=aspnetcore-5.0>

<https://www.iamnickpinheiro.com/blog/facebook-login-with-aspnet-core>

<https://developers.facebook.com/apps/1946441992156084/fb-login/settings/>

<https://console.cloud.google.com/apis/credentials/oauthclient/648171943614-671n1c6j20ktru584s97rps3m2i7iuqd.apps.googleusercontent.com?folder=&organizationId=&project=pittig>