

OAuth 2.0 Integration Documentation

Overview

This document provides guidelines and sample code for integrating OAuth 2.0 authentication into your application.

OAuth 2.0 Flow

1. User is directed to the authorization endpoint.
2. User logs in and grants access to your application.
3. User is redirected back to your application with an authorization code.
4. Your app exchanges the code for an access token.
5. Your app uses the access token to access protected resources.

Endpoints

Name	Endpoint
Authorization Endpoint	https://example.com/oauth/authorize
Token Endpoint	https://example.com/oauth/token
Redirect URI	https://yourapp.com/oauth/callback

Sample Authorization Request

```
GET https://example.com/oauth/authorize?  
  response_type=code  
  &client_id=YOUR_CLIENT_ID  
  &redirect_uri=https://yourapp.com/oauth/callback  
  &scope=read_profile  
  &state=YOUR_RANDOM_STATE
```

Sample Token Request

```
POST https://example.com/oauth/token  
Content-Type: application/x-www-form-urlencoded  
grant_type=authorization_code  
&code=AUTHORIZATION_CODE  
&redirect_uri=https://yourapp.com/oauth/callback  
&client_id=YOUR_CLIENT_ID  
&client_secret=YOUR_CLIENT_SECRET
```

Token Response Example

```
{  
  "access_token": "eyJz93a...k4laUWw",  
  "token_type": "Bearer",  
  "expires_in": 3600,  
  "refresh_token": "8xLOxBtZp8"  
}
```

Parameters

Parameter	Description	Required
client_id	Your application's client ID.	Yes
client_secret	Your application's client secret.	Yes
redirect_uri	Where the user will be sent after authorization.	Yes
scope	Permissions your app is requesting.	No
state	Random string to protect against CSRF.	Yes

Error Responses

```
{  
  "error": "invalid_grant",  
  "error_description": "Invalid authorization code"  
}
```

References

- OAuth 2.0 Guide