

API / OAuth 3 legged

- Although API keys are okay, this doesn't help us with protecting resources. We need permission from the client in some cases to fetch data. The server doesn't own the data, you the client do. This is why we need the 3legged OAuth.
- A client ID and client secret are needed to create the application. This belongs to the developer who can host this application for many users.
- The redirect URL is the URL that will be visited upon getting approval from the client. When the client grants you permission, you can write and read data from there protected data.

So basically in a 3-legged flow initially (by passing client id, client secret and redirect URIs) we receive a grant token with which we can fetch the access token and the refresh token to access the data resources.

The above grant token is received in the redirect URL after successful login to the site.

```
let obj = {  
  code: code,  
  client_id: C_id,  
  client_secret: C_secret,  
  redirect_uri: `${server_root}/lyrics`,  
  response_type: "code",  
  grant_type: "authorization_code",  
};
```