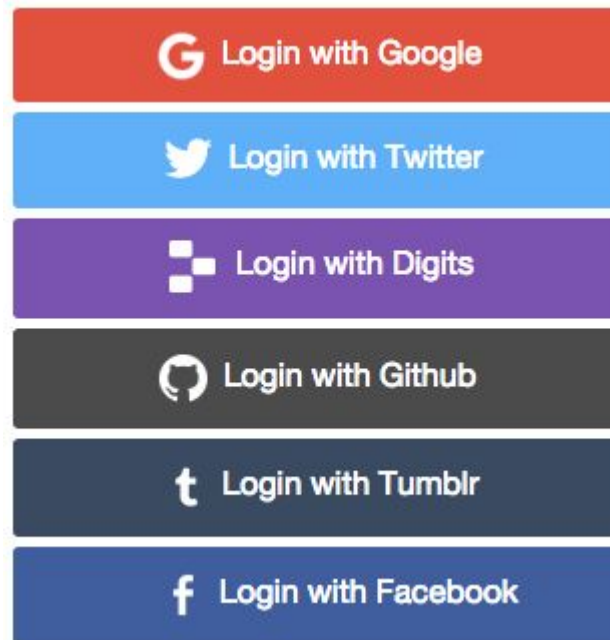


OAuth



OAuth



OAuth

- What is OAuth?
- Why is it required?
- Implementation types.
- Technical discussion on what happens under the hood.
- Demo

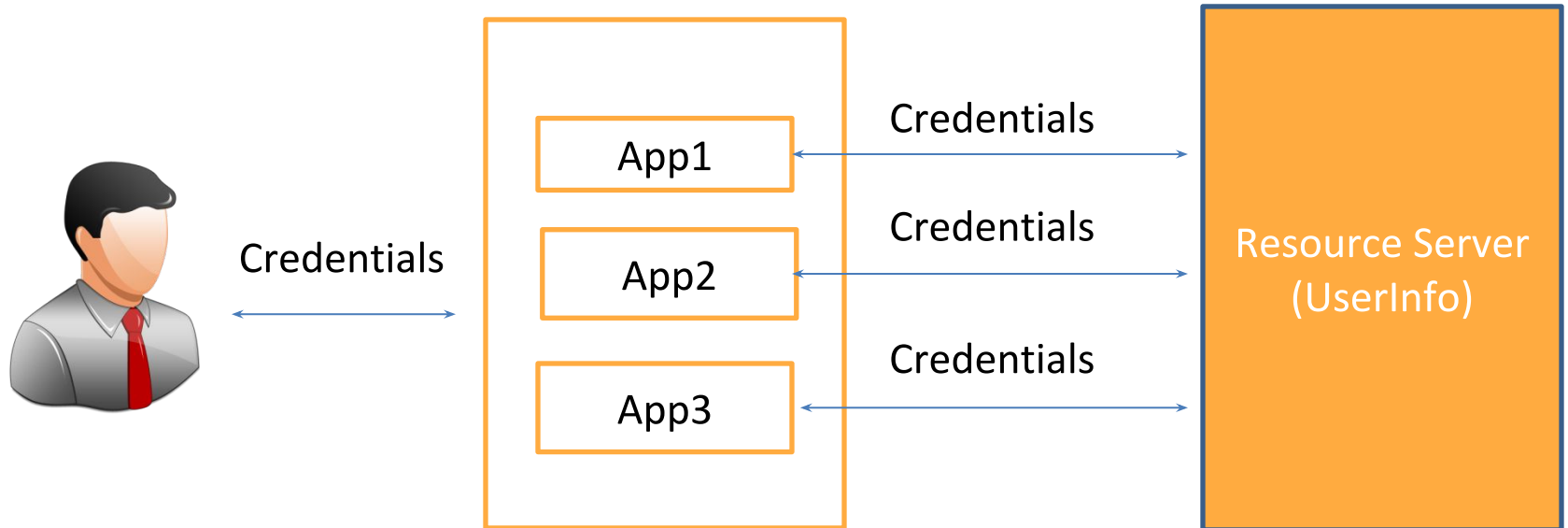
What is OAuth?

OAuth is a specification that allows users to delegate access to their data without sharing username and password with the services.

Why is it required?

- Before OAuth, if a webapp wanted data from another service, it asked for user credentials.
- Then the app stores the credentials and app authorize the user.
- If the user changed the service credentials webapp connected to this service broke.

Before OAuth



Why is it required?

- OAuth allows user to delegate access to their data without sharing their credentials.
- It also removes the overload of building your own authentication system.

Basic Terminologies Used In OAuth

- Resource server
- Resource owner
- Client App
- Authorization Server
- Access Token
- Code

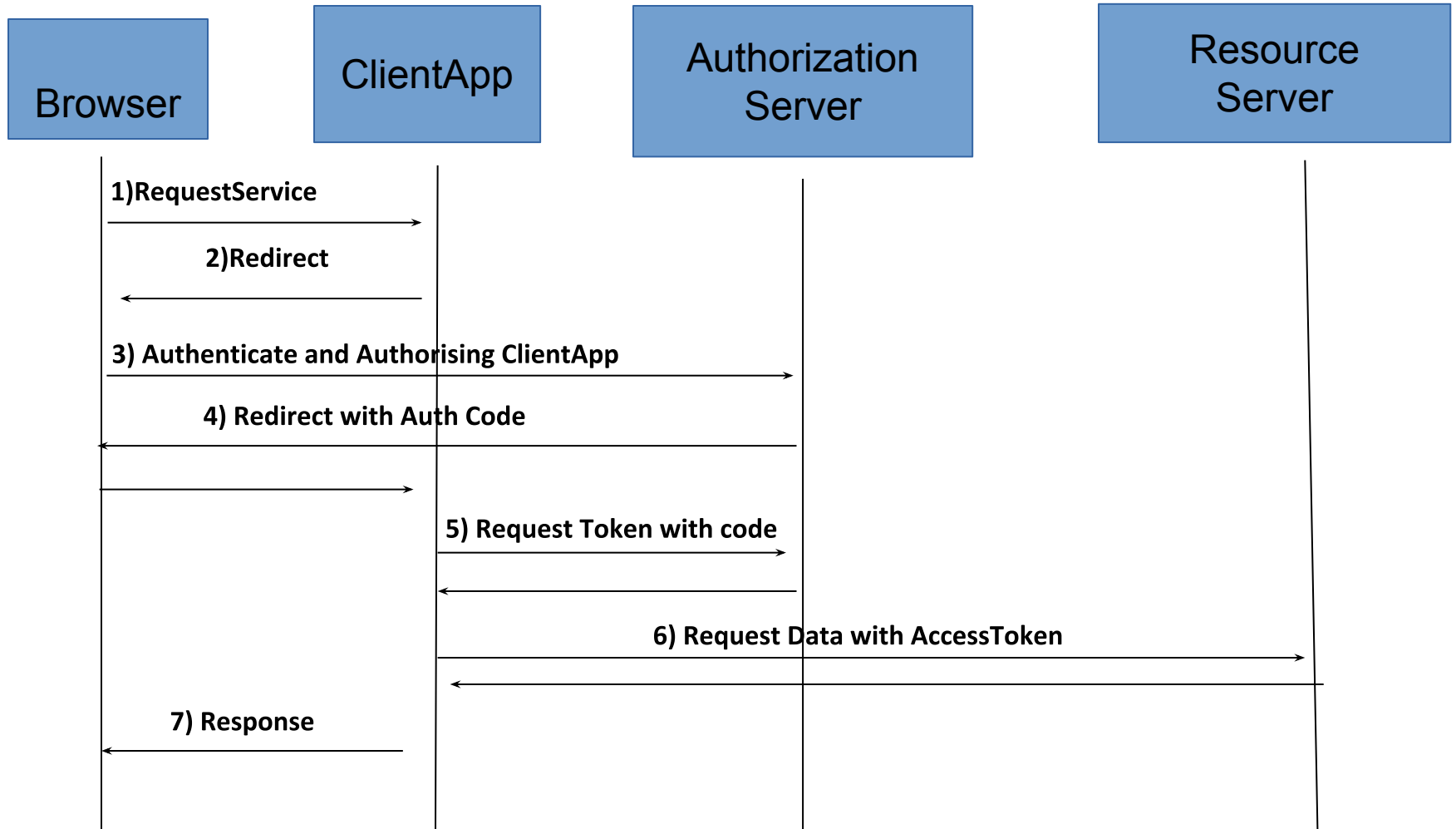
Implementation Types

- Authorization Code
- Implicit
- Resource Owner Password Credentials
- Client Credentials

Authorization Code Flow

- Getting the code from Authorization server.
- Exchange the code to get accessToken from authorization server.
- Get the userinfo using the accessToken.

Authorization Code Flow



Prerequisite

- Register your app in developers console.
- Get the `client_id` and `client_secret`.
- Provide `redirect_uri` in developers console.

Authorizing Client

Parameters	Description
response_type	code
client_id	App Client Identifier
redirect_uri	URI to be redirected by Authorization server with the code.
scope	
state	Data to be shared between authorization and callBack URI

Authorization Server Response

Parameters	Description
code	Value sent by authorization server which should be used to get the accessToken.
state	

RequestToken

Parameters	Description
code	Value returned by the authorization server to redirectURI
grant_type	code
client_id	App client Identifier
client_secret	App client secret
redirect_uri	URI to be redirected by Authorization server with the code.

Request Token Response

Parameters	Description
access_token	Value returned by the authorization server to redirectURI
expiry time	code
refresh_token	App client Identifier

**Thank
You**