

Wrap up and F.A.Q

Answers to your questions

Daily menu

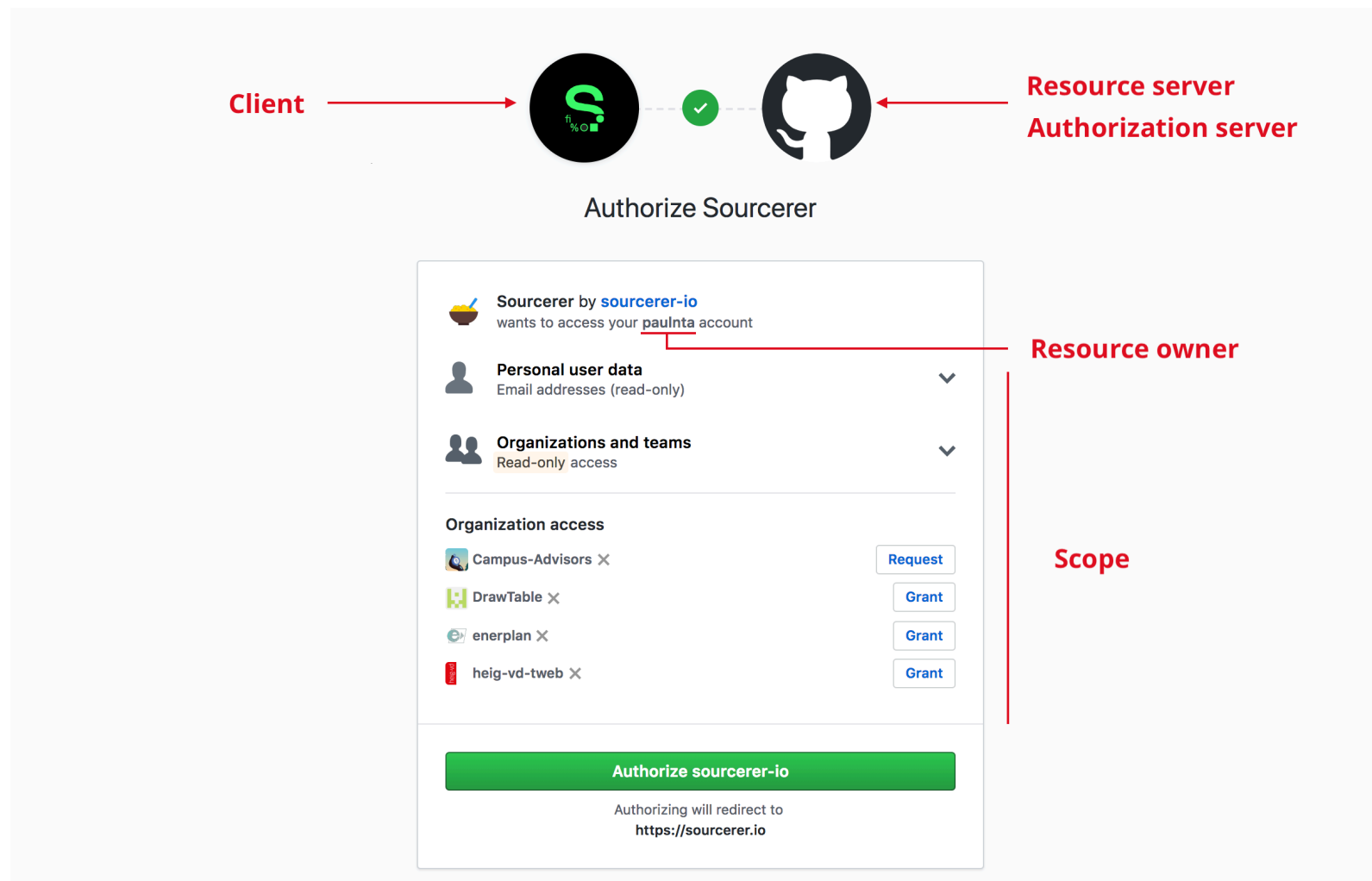
- What is OAuth ?
- How to implement OAuth web flow ?
- How many unit tests should I write ?
- How to prepare for the test ?

What is OAuth ?

- OAuth is an authorization framework / protocol.
- It allows users to grant limited access to their resources on a site
- A third party application (your github-analytics app) can access protected github resources (private email, repos) on behalf of a user
- Instead of using the user's credential, the client obtains an access token

What is OAuth ?

In practice



Roles

Resource owner: (paulnta)

The end-user, capable of granting access to a protected resource.

Resource server: (github)

Where protected data are stored. An access token is required to access protected data.

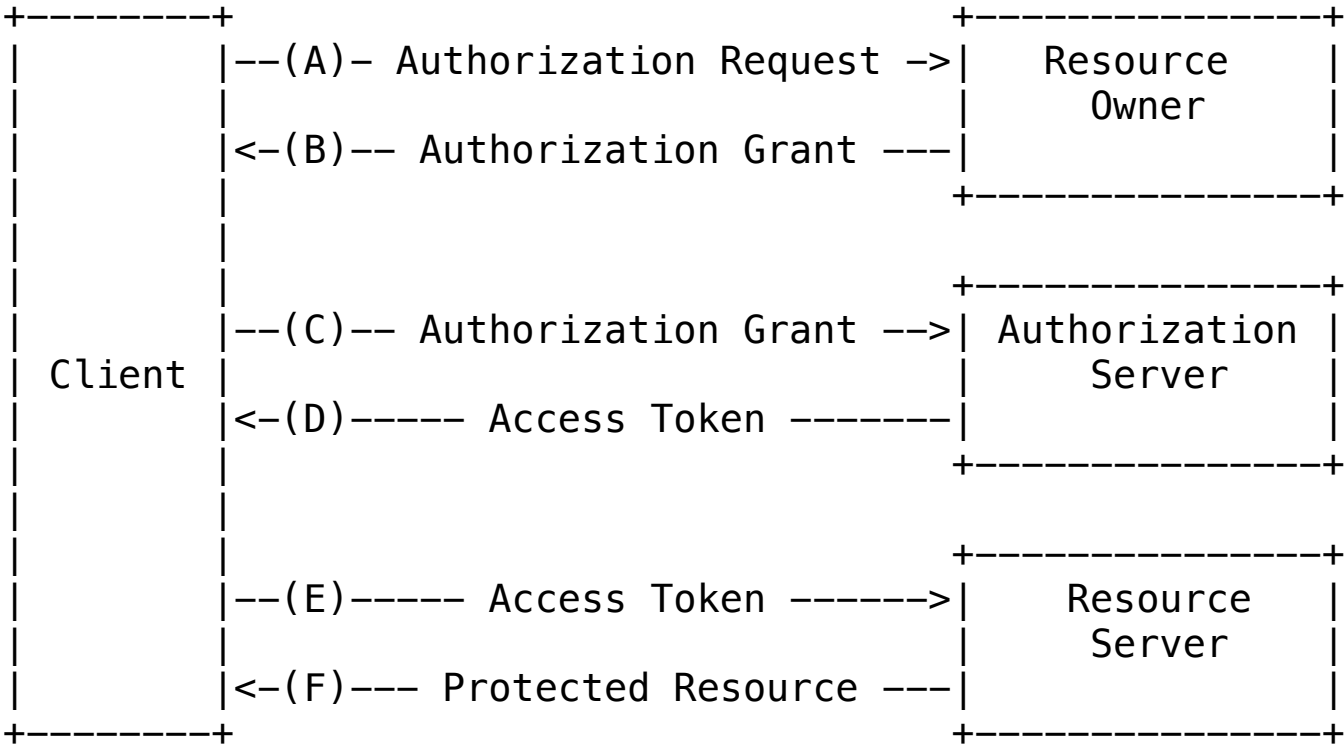
Client: (sourcerer.io)

The application that needs to access protected resources on behalf of the *resource owner* (paulnta)

Authorization server: (github, again)

Issues access token to the *client* after obtaining authorizations from the *resource owner*

OAuth flow in theory



Authorization Grant vs Access token

Authorization Grant:

- The authorization grant represent a **confirmation** that the resource owner **has authorized the client** to access protected resources.
- There is different **grant types**.
- Github uses **Authorization code** (request token).

Access Tokens:

- are **credentials** used to access protected resources
- replaces (username and password) for single token string
- contains all necessary information to **identify a user**
- have an **expiry** time
- have a **scope**

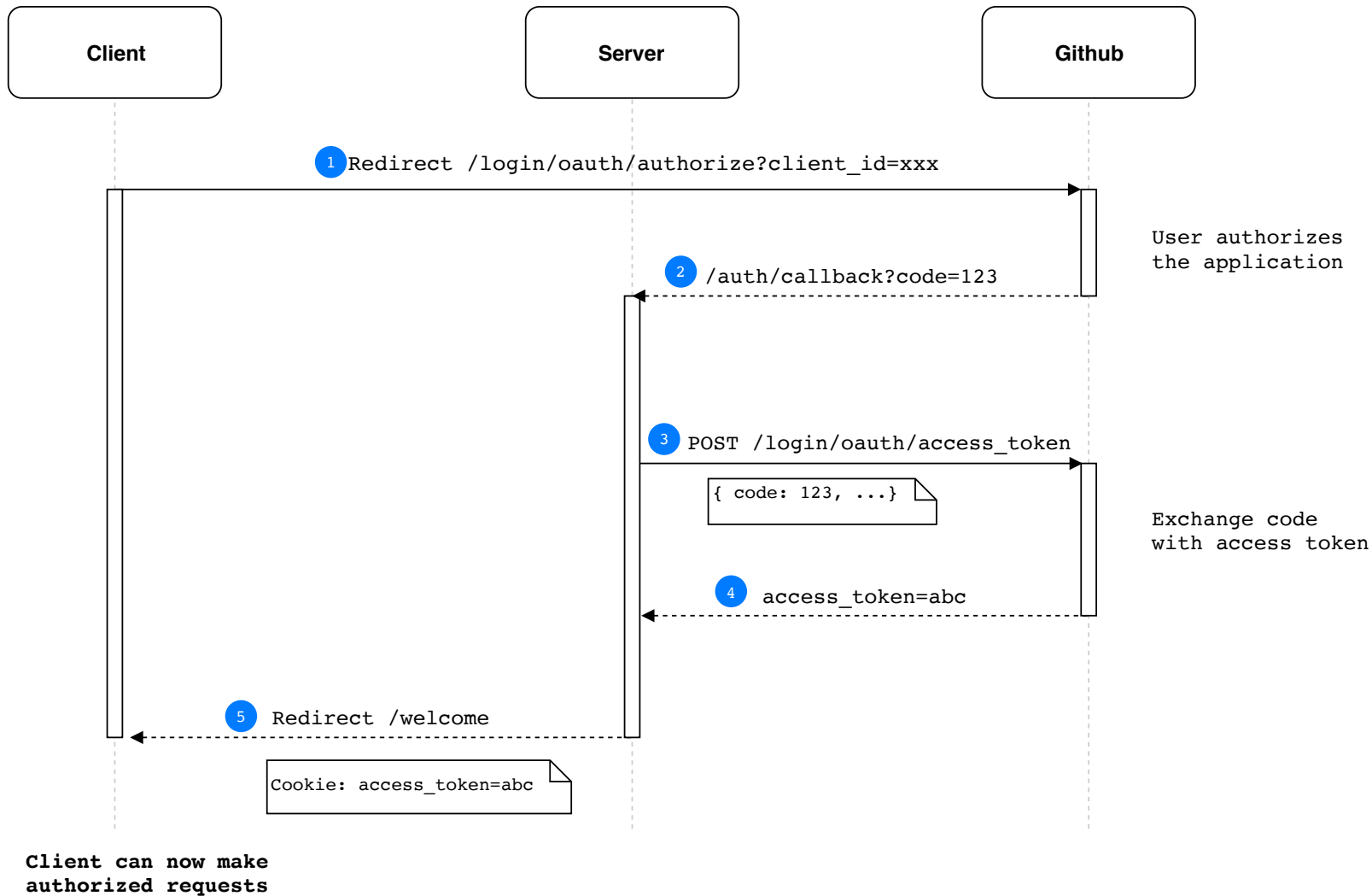
What is OAuth ?

Github OAuth in practice ?

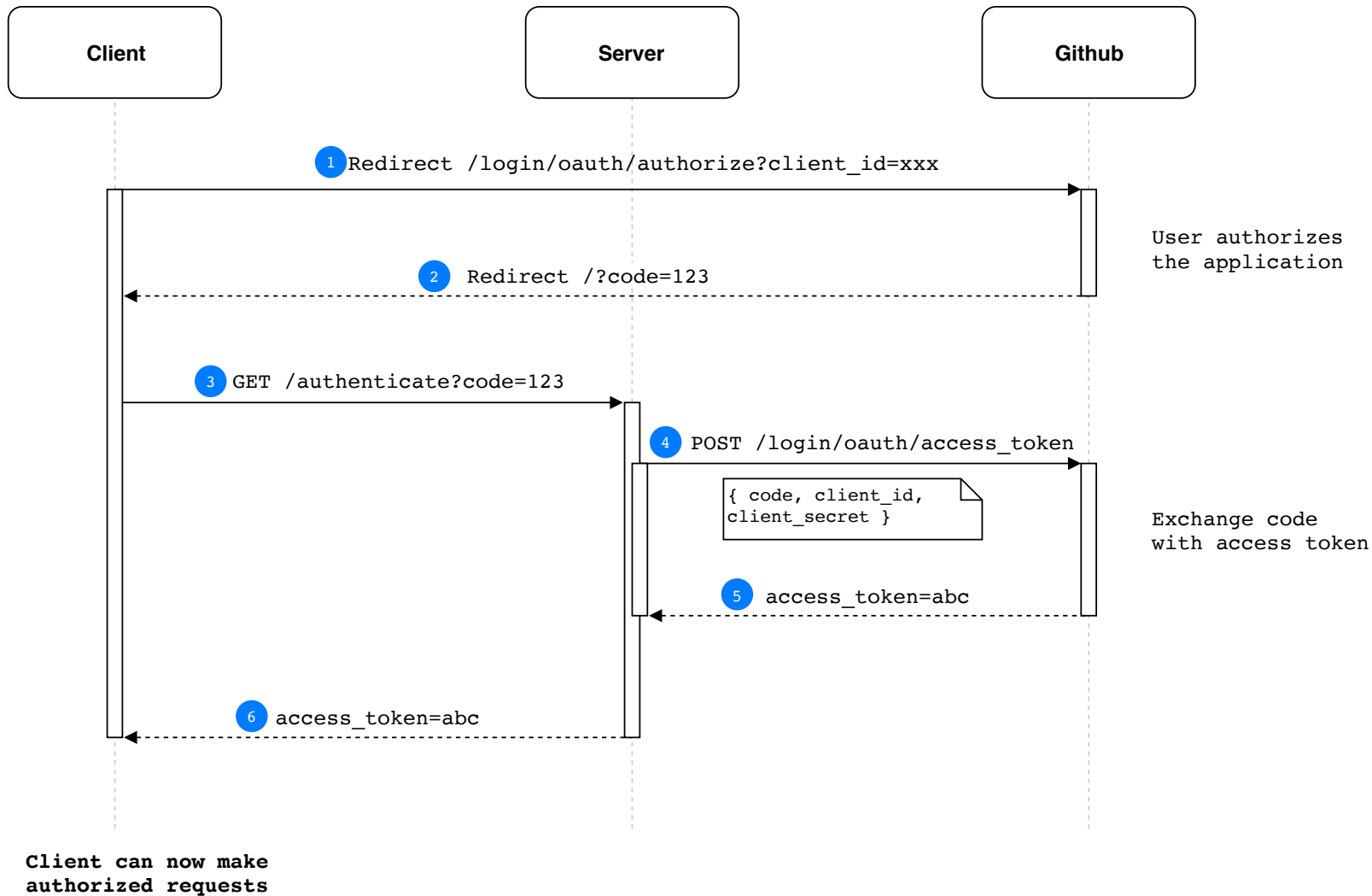
- You need to create a Github App or Github OAuth App.
- You need a **client app** that can redirect users to Github authorization page and receive an **authorization grant**
- You need a **server** to store secret information (`client_secret`) and exchange authorization grants with request **access tokens**.
- At the end, you want an access token to make **authenticated requests**.

Follow the official guide: [web application flow](#)

OAuth flow in practice (1)



OAuth flow in practice (2)



How many unit tests should I write?

You should instead ask : **What** should I test with unit tests?

- Test the common case of everything you can
 - This will serve as **documentation** for you and others
 - You will be informed about any **breaking changes**
- Test the **edge cases** of a few unusually **complex code** that you think will probably have errors
- Whenever you find a **bug**, write a test case to cover it before fixing it
- Add edge-case tests to less critical code whenever someone has time to kill
- Favor tests with few or **single logical assertion**
- Following those advices leads to more **robust** and **modular** codebase

How to prepare for the test ?

You should expect theoretical questions on **chapters 1 - 5**, except for *04 - Towards deployment > Writing next generation JavaScript / Babel*

Be sure to ...

- practice with asynchronous programming — callbacks and promises
- understand how to structure data efficiently in MongoDB
- be able to describe all tools we saw, how they work and how they complement with each other
- understand javascript language core features and its relationship with engines
- Finish and understand all aspect of the project 1.
- ~~read all references and links~~