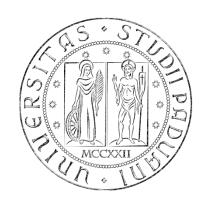
University of Padova Department of Information Engineering

Biomedical Wearable Technologies for Healthcare and Wellbeing

Requesting data

A.Y. 2022-2023

Giacomo Cappon





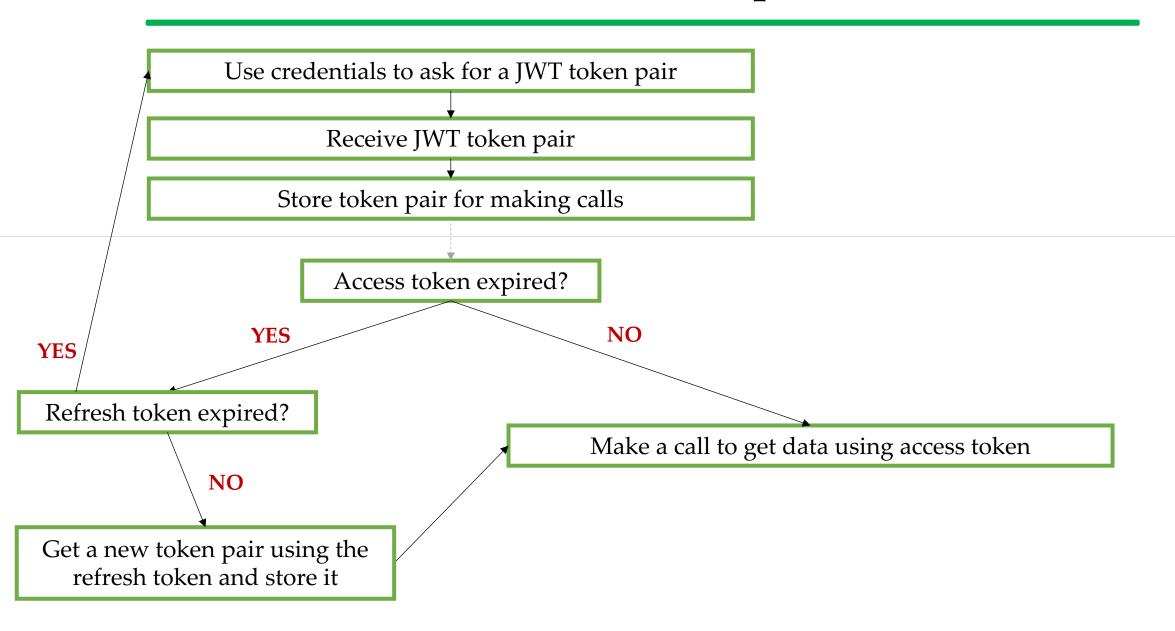
- > Recap
- ➤ Requesting data from IMPACT
- > Exercise
- > Resources

Recap: The IMPACT backend

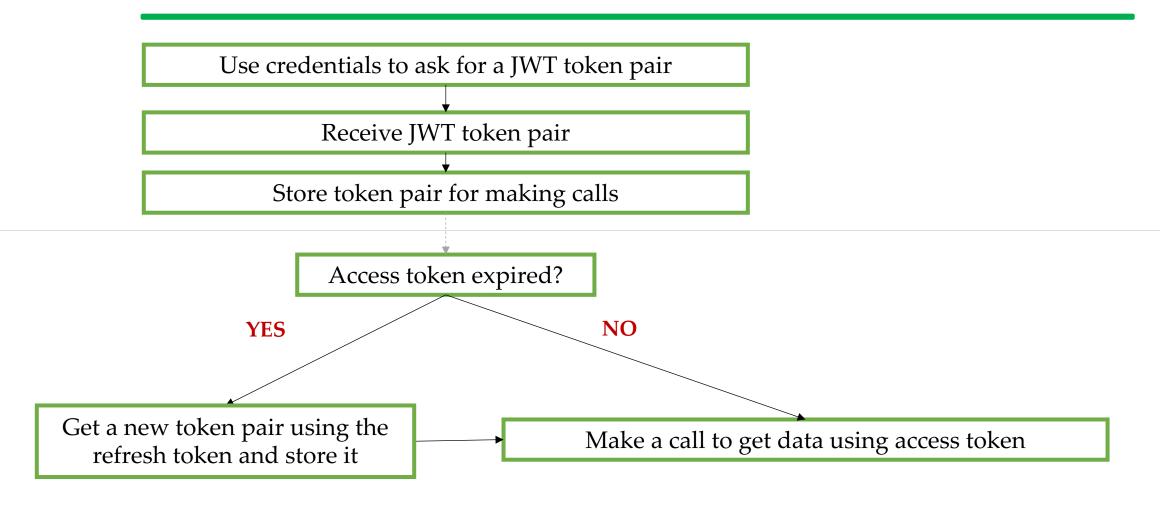
HTTPS requests/responses Lesson 9 Get token (JWT) using credentials (If credentials are ok) Receive token 1010 Ask for specific data using token Flutter (If request is ok) Receive data (JSON format) https://impact.dei.unipd.it/bwthw/ Your app

Lesson 10

The entire flow in practice



The (required) flow in practice



- > Recap
- > Requesting data from IMPACT
- > Exercise
- > Resources

Requesting data: The IMPACT data

Biomedical Wearable Technologies for Healthcare and Wellbeing API

[Base URL: impact.dei.unipd.it/bwthw]

https://impact.dei.unipd.it/bwthw/docs/swagger/?format=openapi

Back-end for the course of Biomedical Wearable Technology for Healthcare and Wellbeing, Master's degree in Bioengineering, Department of Information Engineering (DEI), University of Padova.

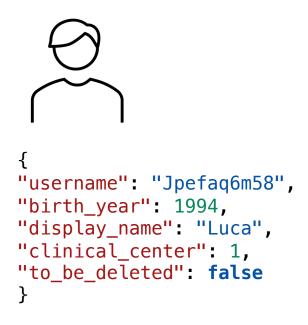
Contact the developer

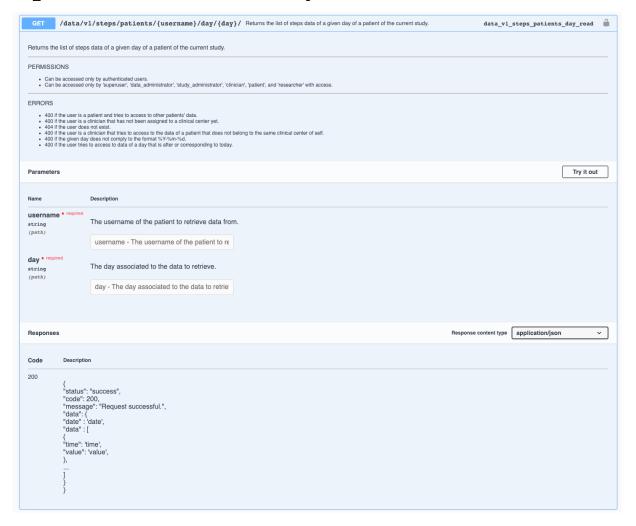
BSD License



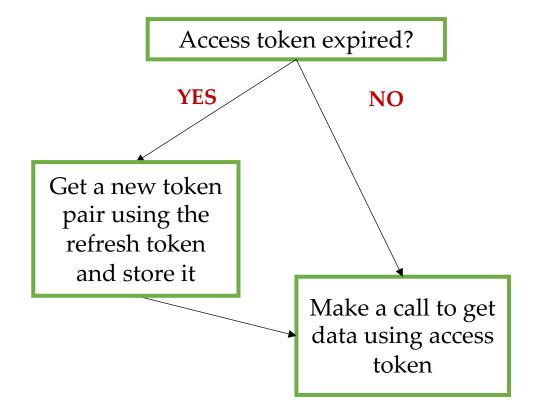
Example: Obtaining step data

For example, let's obtain the steps data of 2023, May, 4th





➤ Let's implement the operations required to request the data



HomePage Authorize the app Unauthorize the app Get the data

4:10

- > Recap
- ➤ Requesting data from IMPACT
- **Exercise**
- > Resources

Exercise

> Get familiar with the example

> Try to integrate the request data flow in your project

- > Recap
- ➤ Requesting data from IMPACT
- > Exercise
- **Resources**

Resources

- IMPACT documentation
 - https://impact.dei.unipd.it/bwthw/docs/swagger/
- > HTTP Status Codes
 - https://en.wikipedia.org/wiki/List_of_HTTP_status_codes
- Fetch data from the internet. Cookbook by the Flutter community
 - https://docs.flutter.dev/cookbook/networking/fetch-data
- Send data to the internet. Cookbook by the Flutter community
 - https://docs.flutter.dev/cookbook/networking/send-data