{EPITECH}

T-DEV-702 – WEB Dev

Kick-off

Why practicing web development?

- Need for web apps is growing across industries.
- It combines creativity + problem solving + technical skills.
- You can have a global impact and reach a worldwide audience.
- It is a fast-evolving field, making you learn every day.
- Web dev is an easy way to start a freelance career.

Web dev main challenges

- Cross-browser compatibility
- Performance optimization
- Security threats
- Responsive design
- Accessibility
- Search Engine Optimization

Analogy

Customers don’t know what’s going on in the kitchen.

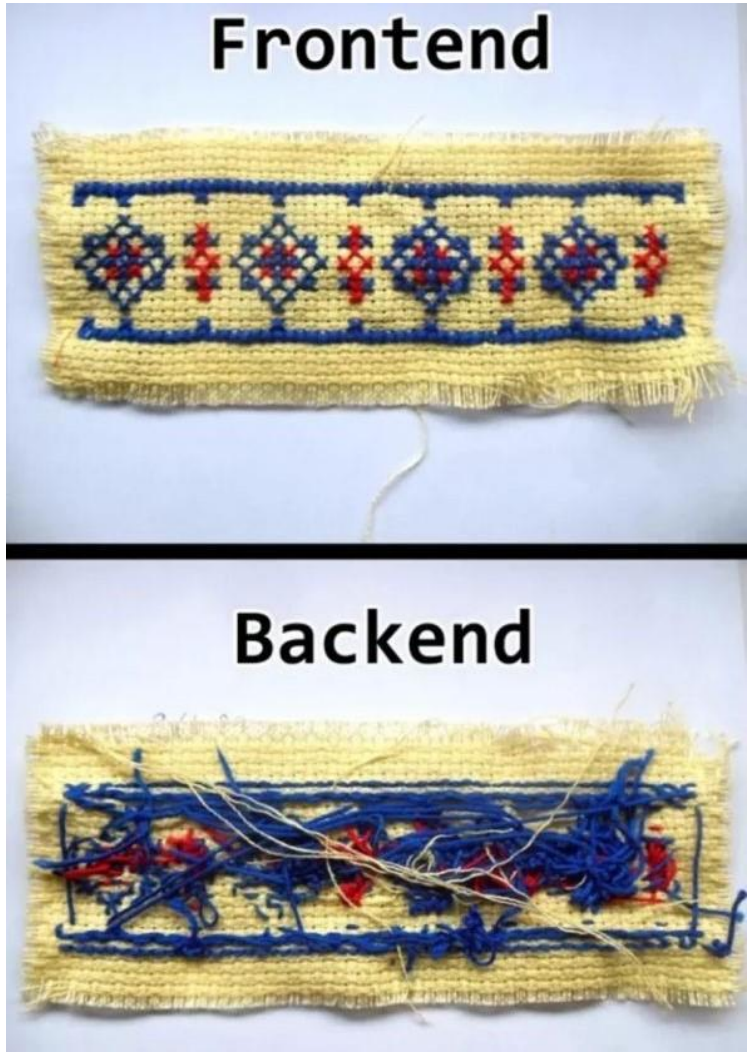
Customers expect a nice and compelling forepart.

Back and front usually communicate via APIs.

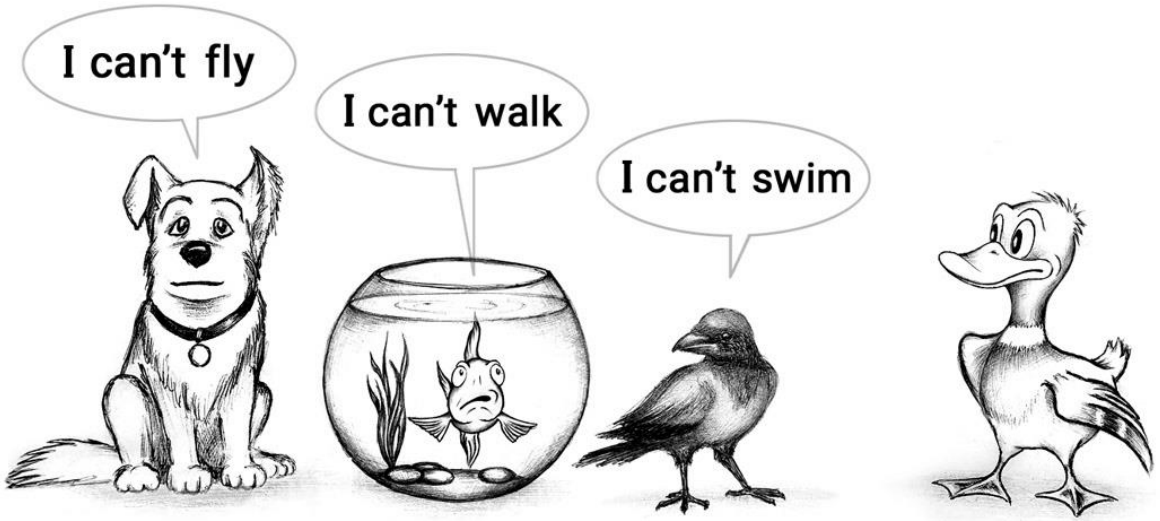
The usefulness of APIs

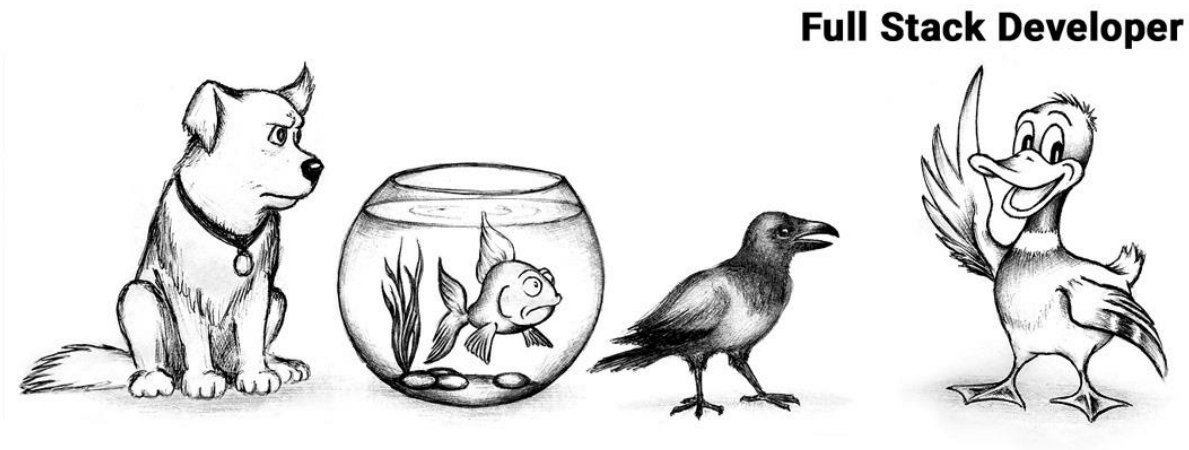
- APIs allow (part of the) apps to communicate
- APIs permit to reuse functionalities or data
- APIs enhance the user experience
- APIs enable dynamic features
- APIs facilitate automation
- APIs ease scalability

The eternal war: Front VS Back



Embrace versatility



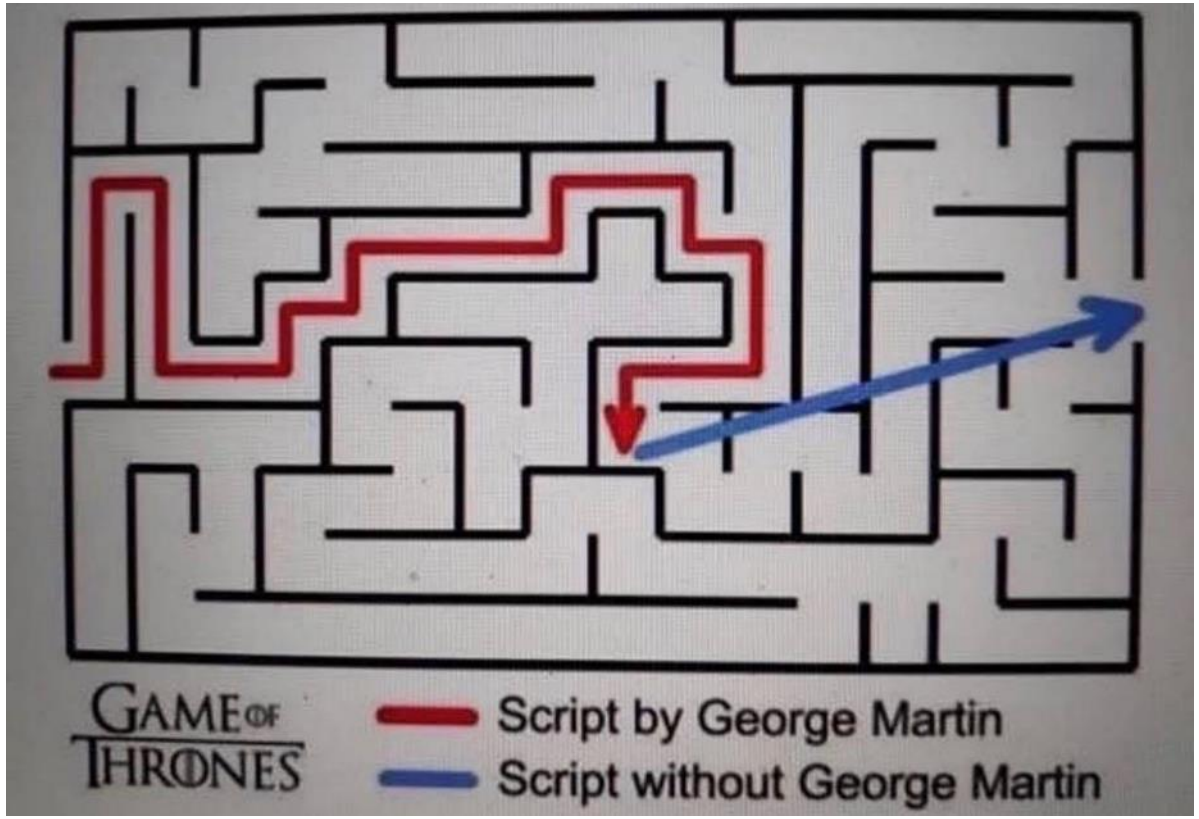


Front + Back = Full stack

Full stack developers are:

- Skilled ;
- Versatile ;
- In high demand ;
- Continuously learning ;
- Able to design AND develop an entire web app.

Starting from the end

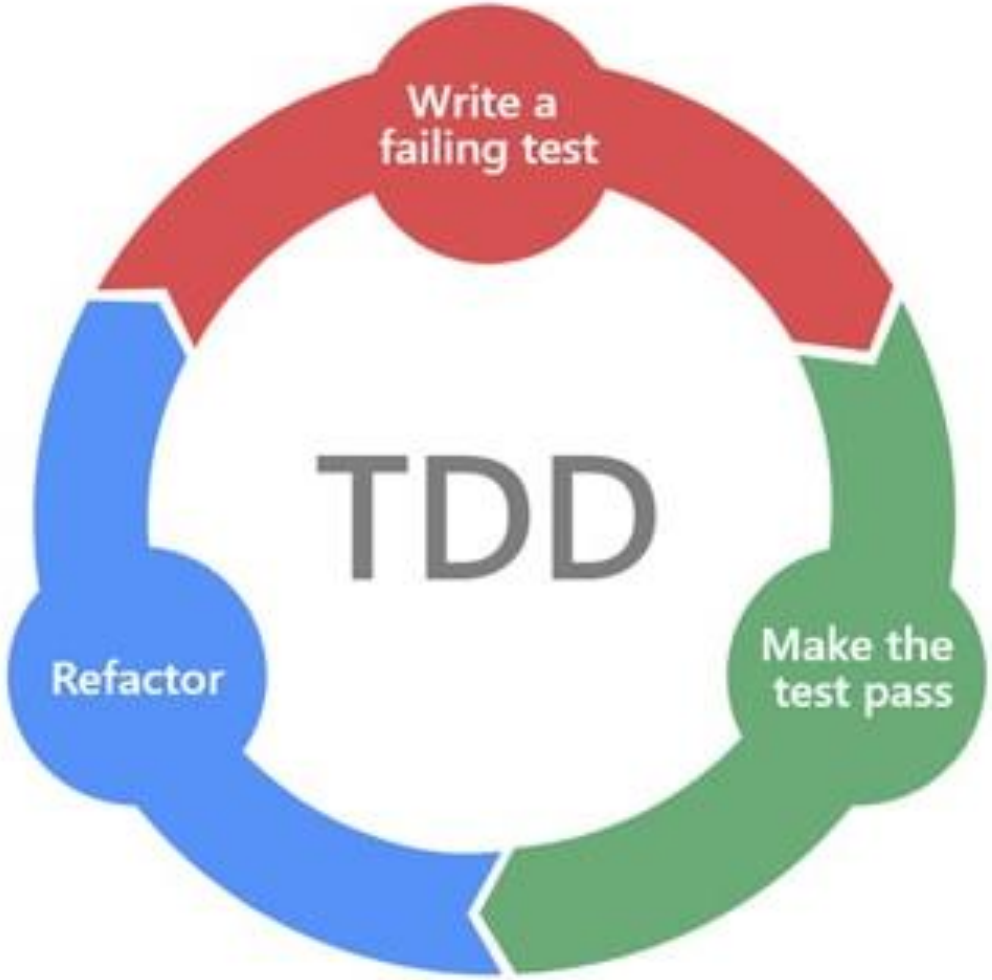


Good coders start to develop from the end:

- first, they code the tests ;
- then, they code the function.

This is **T**est **D**riven **D**evelopment.

Benefits of Test Driven Development



- Code efficiently.
- Get quick feedback.
- Identify errors quickly.
- Spend less time on debug.
- Improve quality & maintainability.
- It might glow overnight!

Example languages with TDD

Python Assertion and Unit Testing

Thank you

Any questions?