



Technological choices

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Title and Summary	•
Problem, Recap and Solution	

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wellcheck.fr/documentation







All the architecture is powered using docker and docker-compose (see document from february 2020 for more informations).

Wellcheck make us face some technological problems and choice which leads to a potential solution that we now use.

Problems:

- UX Reactivity
- Easy & understable backend code for non-technical staff
- Deal with large Amount of data
- Needs to be easly Manageable
- Have to be testable by any person
- Generate trustable documents

To recap our system we now have:

- A main web server (Ngnix) working with let's encrypt certification

- An admin interface (html5 | css3 | PHP7 - vanilla | js - vanilla)

- A document handler (html5 | css3 | PHP7 - vanilla)

- An error handler (html5 | css3)

- A webapp (html5 | css3 | js - VueJs)

- A presentation web (html5 | css3)

- An API (Python3.7 - Bottle & Custom Framework)

- A Mobile Application (JS - ReactNative)- A Log Database (Elasticsearch6)

- An User Database (MySQL5)

- Databases tools (PhpMyAdmin | Kibana)

- An Access log Analyser (Goaccess)

- A test data generator (Python3.7)

UX Reactivity, was fixed by using either **light** or **native framework** (Vuejs | ReactNative)

The **backend code** is readeable thanks to **Python3** an interpreted, multi-paradigm and multiplatform programming language

We can **deal with a large amount of data** thanks to **ElasticSearch** a distributed and multi-entity search engine

The whole process is **manageable** thanks to **Phpmyadmin**, **Kibana** and **Goaccess** which each provide a service in the management of the application

The webapp is **testable** by using **test account** and **test device**

The application is designed to **push document hash** into a **smartcontract** (etherum blockchain)



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