

WOJCIECH POLAK

SYSTEM FOR WORLD BUILDING  
AND SHARING NOTES FROM  
ROLE-PLAY SESSION

RUST WROCŁAW 06.2019

# WHY?

- Managing analog notes its hard.
- You have to calculate all statistics by yourself.
- For quick-search / fuzzy search.
- Your players has limited creativity.
- Players may forget theirs character sheets.
- Because it's fun!

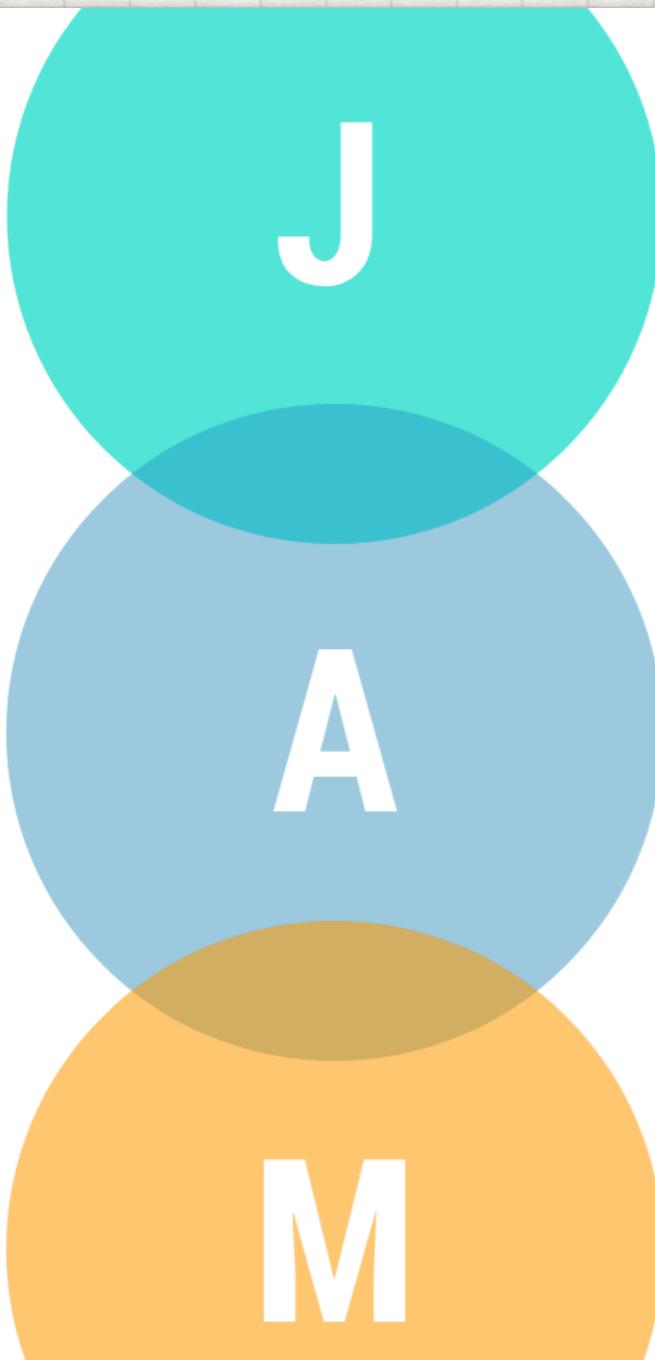
# MY REQUIREMENTS

- Works offline - CLI + sync notes (optionally vim/any IDE plugin)
- Works online - and works fast!
- Can share with players
- Can restrict some information to myself or one of players
- Can allow players to edit article
- But only after my review
- Quick search.

HOW?

# JAMSTACK

## HOW TO DEVELOP FAST WEB APPS



### JavaScript

Any dynamic programming during the request/response cycle is handled by JavaScript, running entirely on the client. This could be any frontend framework, library, or even vanilla JavaScript.

### APIs

All server-side processes or database actions are abstracted into reusable APIs, accessed over HTTPS with JavaScript. These can be custom-built or leverage third-party services.

### Markup

Templated markup should be prebuilt at deploy time, usually using a site generator for content sites, or a build tool for web apps.

# GIT BASED NOTES.

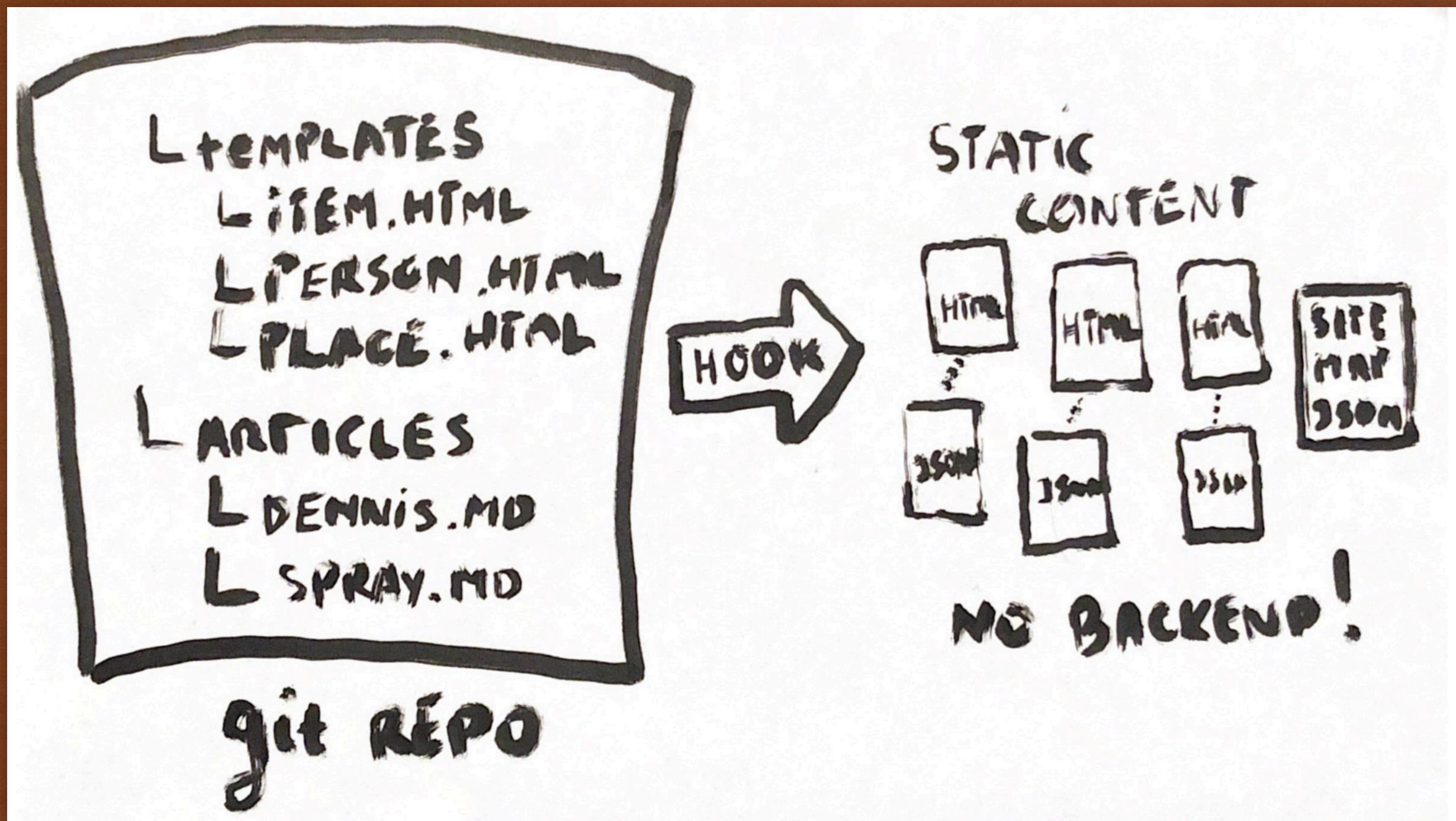
# GIT BASED NOTES

- Works offline - “git clone”
- Works online - “git push”
- Can share with players - static HTML
- Can restrict some information to myself - “.gitignore” ;)
- or one of players - WIP - thinking about system of encrypted files / nginx auth
- Can allow players to edit article - “fork/branch”
- But only after my review - Merge Request
- Quick search. - static JSON + FZF/ripGrep/own API

LET'S MAKE API AND  
MARKUP WITH RUST!

WHAT?

# GIT HOOK BABE



# REPOSITORY WITH MARKDOWN AND TEMPLATES

```
1. fish /Users/wojciechpolak/Personal/theater_of_mind/template_world (fish)
~/P/t/template_world (master=) ls -R
articles  templates

./articles:
dennis.md  goodshed.md

./templates:
item.html  kid.html  place.html
~/P/t/template_world (master=) _
```

# ARTICLE

## WRITTEN IN MARKDOWN WITH EXTRA SYNTAX

```
> ⚒ .idea
> 📂 components
> 📂 deploy
> 📂 target
▼ 📂 template_world
  ▼ 📂 articles
    • dennis.md
    • goodshed.md
  ▼ 📂 templates
    • item.html
    • kid.html
    • place.html
  • .dockerignore
  • .gitignore
  • .gitlab-no-ci.vml

  1 12  +++ kid:id:1234abcd ***
  2 11   title = 'Dennis Goodwill'
  3 10   name = 'Dennis'
  4 9    surname = 'Goodwill'
  5 8  ***
  6 7
  7 6 Dennis jest **urwistem**.
  8 5
  9 4 Zawsze ma przy sobie [Puszka sprayu](item:abcd1234)
 10 3
 11 2 [+ place:aaaaffff +]
 12 1
 13 13 ++ item:id:abcd1234 ++
 14 1   title = 'Puszka sprayu'
 15 2
 16 3 To jest puszka spreju zielonego koloru
 17 4  ++ end ++
```

# TEMPLATE WITH TERA AND CUSTOM FUNCTIONS

The screenshot shows a code editor interface with a dark theme. On the left, the project structure is displayed:

- theater\_of\_mind** ~/Personal/
- .idea
- components
- deploy
- target
- template\_world**
  - articles
    - dennis.md
    - goodshed.md
  - templates
    - item.html
    - kid.html**
    - place.html

On the right, the content of the **kid.html** file is shown:

```
1 <strong>Name:</strong> {{ name | default(value="Unknown") }} <br/>
2 <strong>Surname:</strong> {{ surname | default(value="Unknown") }}
3
4 <h3>Description</h3>
5 <div>
6   {% for item in content %}
7     <p>
8       {{ render_for(item = item) | safe }}
9     </p>
10    {% endfor %}
11  </div>
12
13 <!-- {{ __tera_context }} -->
```

# SIMPLE GIT PUSH

## POST-RECEIVE GIT HOOK

```
1. fish /Users/wojciechpolak/Personal/theater_of_mind/template_world (fish)
~/P/t/template_world (master+) git push origin master
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 196 bytes | 196.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0)
remote: ----
remote: Creating HTML
remote: % Total    % Received % Xferd  Average Speed   Time     Time     Time  Current
remote:                      Dload  Upload   Total   Spent   Left  Speed
remote: 100      2  100      2      0       0      9      0 --:--:-- --:--:-- --:--:--   9
remote: ok
remote: It may take up to second
remote: ----
To ssh://localhost:22/git/repos/test.git
  9891436 .. 3594aaa  master → master
~/P/t/template_world (master=) _
```

# CREATES ALL STATIC HTML AND JSON FOR METADATA & SITEMAP

```
● ● ● 1. kubectl /Users/wojciechpolak/Persoanl/theater_of_mind/template_world (kubectl.1.14)
root@staticgen-b4fb4b9-dfgkn:/usr/share/nginx/html/worlds/test# ls -R
.:
articles  articles.json

./articles:
item  kid  place

./articles/item:
abcd1234.html  abcd1234.json

./articles/kid:
1234abcd.html  1234abcd.json

./articles/place:
aaaaffff.html  aaaaffff.json
root@staticgen-b4fb4b9-dfgkn:/usr/share/nginx/html/worlds/test# _
```

# GENERATED STATIC HTML

```
1  <strong>Name:</strong> Dennis <br/>
2  <strong>Surname:</strong> Goodwill
3
4  <h3>Description</h3>
5  <div>
6
7      <p>
8          <p>Dennis jest <strong>urwistem</strong>.</p>
9  <p>Zawsze ma przy sobie <a href="http://lvh.me:1234/#/test/articles/item/abcd1234.html">Puszkę sprayu</a></p>
10
11     </p>
12
13     <p>
14         <div class="elevation-2 pa-2">
15             <h3>The Goodshed</h3>
16
17
18     <p>
19         <p>Szopa w której całymi dniami przesiaduje ekipa.</p>
20     <p>Szopa należała do ojca Dennis'a.</p>
21
22     </p>
23
24 </div>
25
26 <!-- {
27     "content": [
```

# STATIC FILES ACCESSED BY DYNAMIC VIA VUE.JS

+ Create world

📄 Puszka sprayu

📄 Dennis Goodwill

📄 The Goodshed

## Dennis Goodwill

**Name:** Dennis

**Surname:** Goodwill

### Description

Dennis jest **urwisem**.

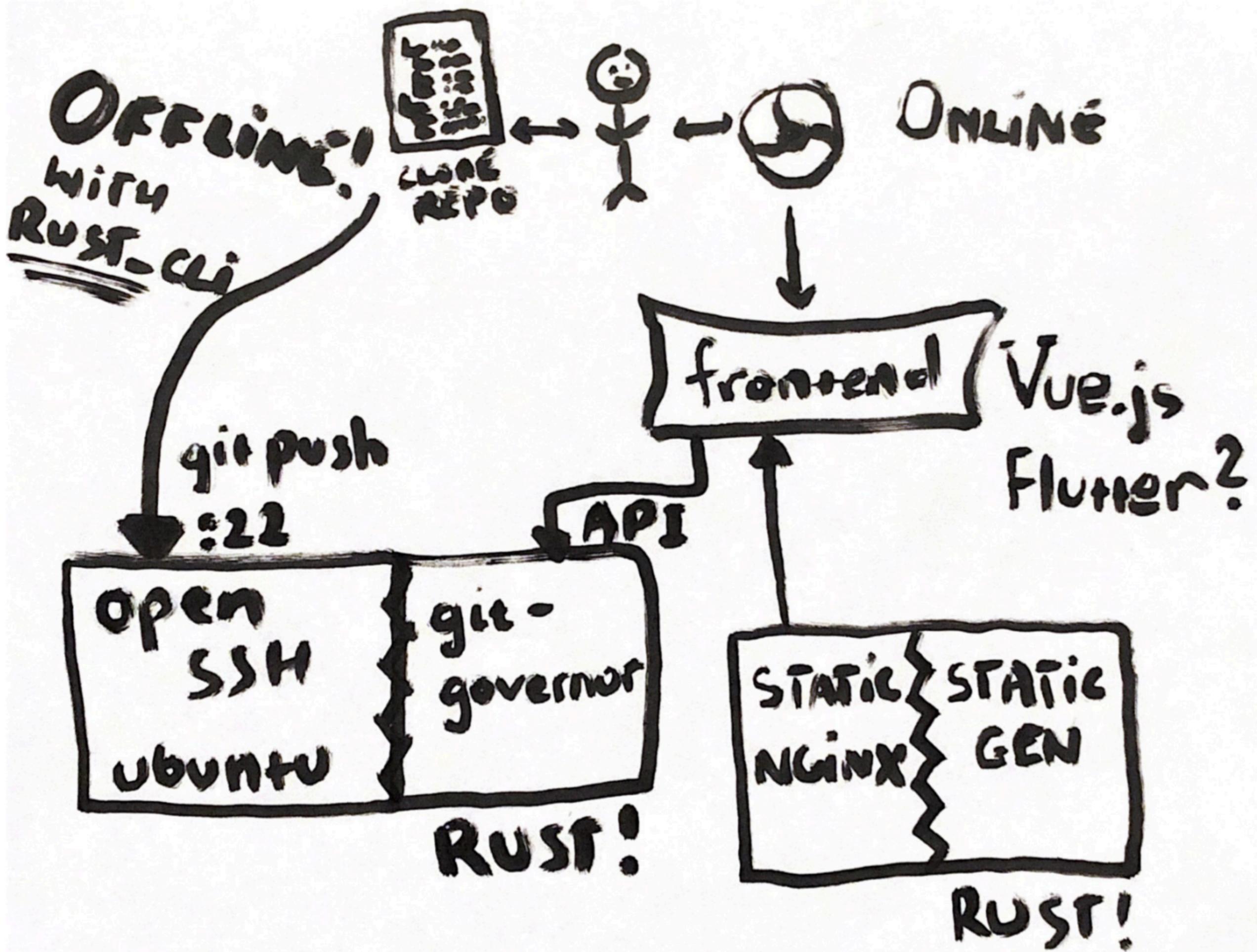
Zawsze ma przy sobie [Puszczę sprayu](#)

## The Goodshed

Szopa w której całymi dniami przesiaduje ekipa.

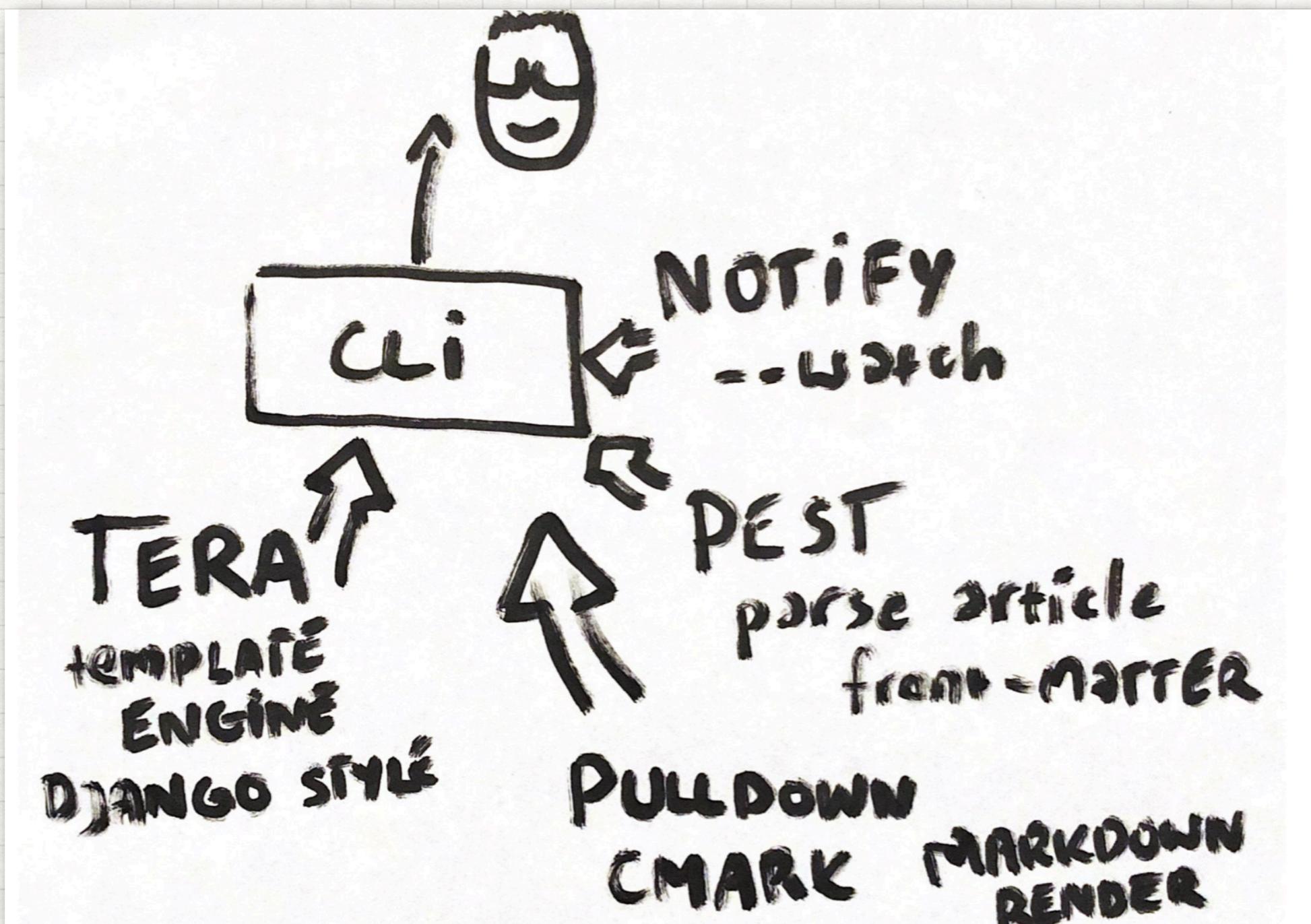
Szopa należała do ojca Dennis'a.

# ARCHITECTURE



# CLI TOOL

## ONE TOOL FOR FAST DEVELOPMENT

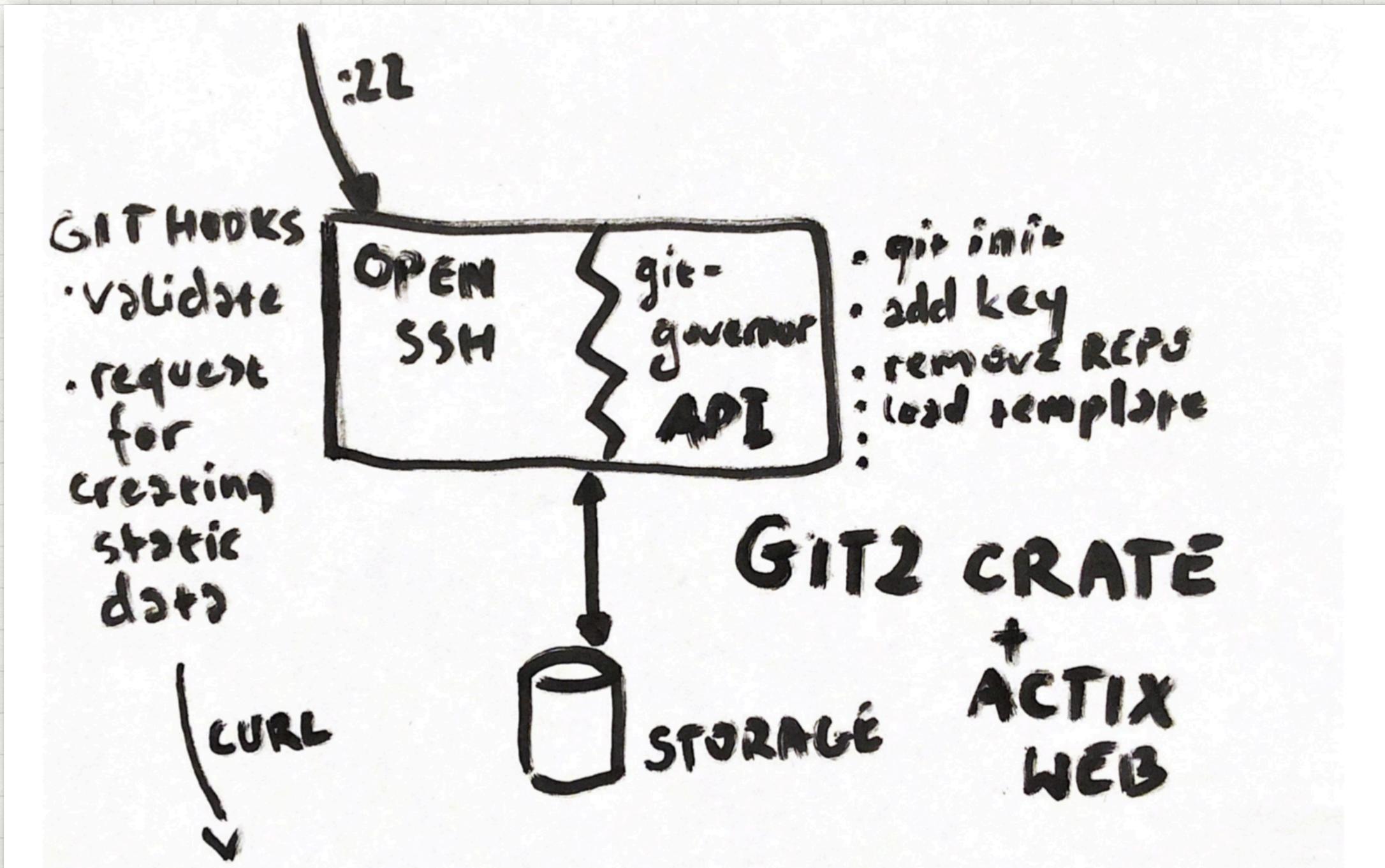


# CLI USAGE

```
1. fish /Users/wojciechpolak/Perso... (fish)
× ...orld (kubectl.1.14) ● #1 | × ...ts/static_cli (fish) ● #2 | × ...heater_of_mind (fish) #3
~/P/theater_of_mind (master ≡) ./components/static_cli/target/debug/totm_sscli template_world/ ./tm
p/html
Loading "template_world/articles/dennis.md"
Added: item:abcd1234
Added: kid:1234abcd
Loading "template_world/articles/goodshed.md"
Added: place:aaaaffff
fix link with base path: "http://localhost/"
[~/Users/wojciechpolak/.cargo/git/checkouts/core-6e98374eb6d58831/01edc12/src/item.rs:43] &base_path =
"http://localhost/"
~/P/theater_of_mind (master ≡) _
```

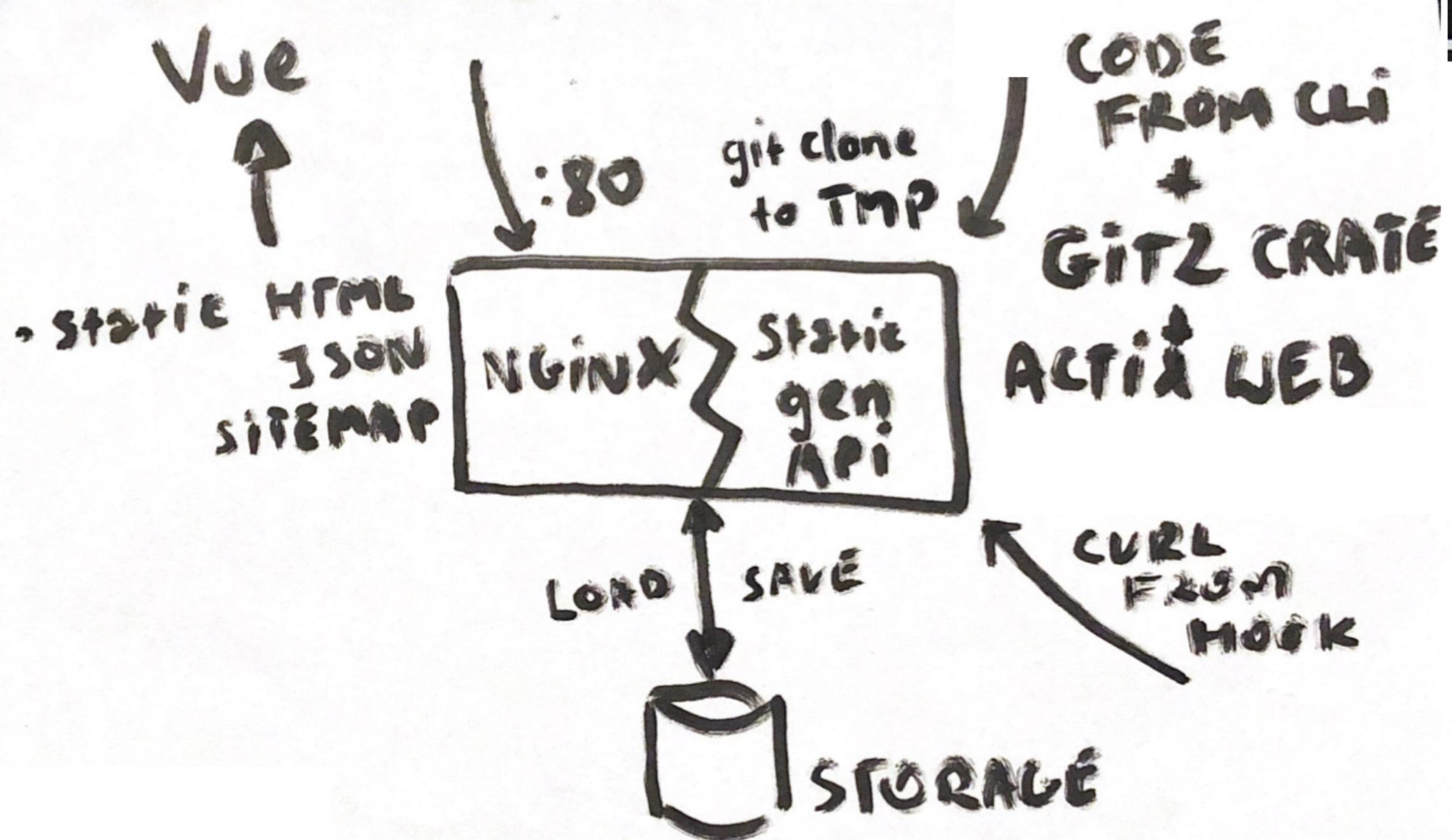
# GIT SERVER

I COULD USE GITHUB/GITLAB BUT IT'S TOO EASY ;)



# STATIC DATA GENERATOR

## SIMPLE WEBSERVICE / JOB (IN FUTURE)



# FUTURE?

## WORK IN PROGRESS, PLANNED, WISHES, NICE TO HAVE

- User authentication
- Secrets - encrypted files in repo maybe?
- Production environment with domain ;)
- Categories/labels
- Mentions
- Native desktop app/ Mobile app - Flutter?
- In-Web / In-App editor - not every GM is programmer
- Dynamic sheets, calculations, scripting language maybe?

# THANK YOU

