

DOCCANO WITH VUEJS AND WEBPACK

OUTLINE

- 1 VueJS
- 2 Webpack
- 3 Doccano
- 4 References



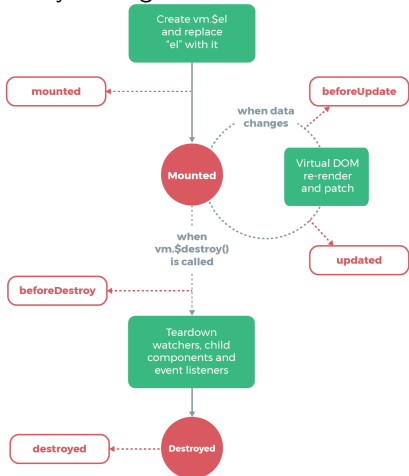
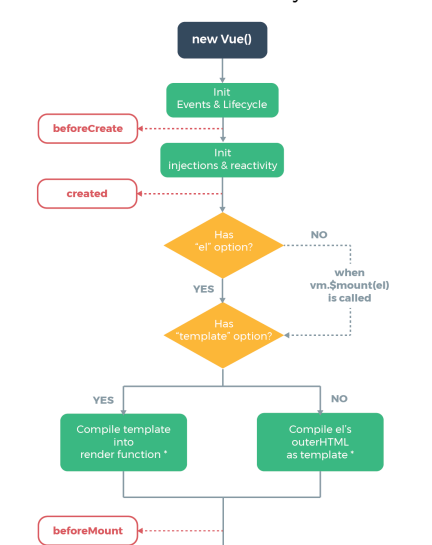
VUEJS

Basic concepts

- Unlike other monolithic frameworks, Vue is designed from the ground up to be incrementally adoptable
- Vue instance
 - ▶ Every Vue application starts by creating a new Vue instance with the Vue function:

```
1   var vm = new Vue({  
2     // options  
3   })
```

Lifecycle hooks and Lifecycle diagram



* template compilation is performed ahead-of-time if using a build step, e.g. single-file components

VUEJS

Basic concepts

- Vue components: reusable Vue instances with a name.

```
1 <template>
2 <div class="hello">‘
3 <h1> This is HelloWorldd </h1>
4 </div>
5 </template>
6 <script>
7 export default {
8   name: 'HelloWorld',
9 }
10 </script>
```

Listing 1: HelloWorld.vue

```
1 <template>
2   <div id="app">
3     <HelloWorld/>
4     <HelloWorld/>
5     <HelloWorld/>
6   </div>
7 </template>
```

Listing 2: App.vue

This is HelloWorldd

This is HelloWorldd

This is HelloWorldd

VUEJS

Basic concepts

- Single-page applications : a web application or web site that interacts with the user by dynamically rewriting the current page rather than loading entire new pages from a server.
 - ▶ Vue Router : tool for building SPAs maintained by the Vue team.
- State management :
 - ▶ Vuex : tool for managing global state and components by the Vue team.
 - ★ State
 - ★ Getters
 - ★ Mutations
 - ★ Actions

- Project scaffolding: Vue CLI initialize a Vue project in minutes.
- Data-driven user interfaces: the data will often be sourced from a secure API.
- Testing: Vue Test Utils allows to create and run tests on isolated Vue components.

VUEJS

Vue-based frameworks

- Nuxt.js: a framework provide a high-performance Vue app with component-based routing, server-side rendering, code splitting.
- Vuetify: quickly build Vue apps with Material Design layout and styling, plus widgets like modals, alerts, navbars, pagination etc.
- NativeScript-Vue: an open source plugin which allows you to use Vue.js to craft your mobile application.

WEBPACK

Basic concepts

Definition (Webpack)

At its core, webpack is a static module bundler for modern JavaScript applications.

- If your code is written across different modules, Webpack can "build" these into one single file that is readable by a browser.



Basic parameters:

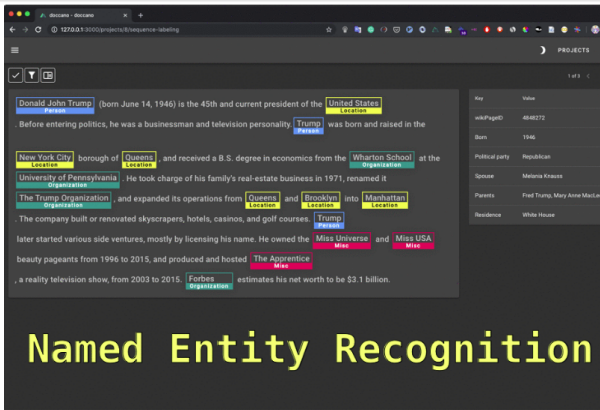
- Entry points: indicates which module webpack should use to begin building out its internal dependency graph.
- Output: where to emit the bundles it creates and how to name these files.
- Loaders: process other types of files and convert them into valid modules.
- Plugins: perform a wider range of tasks like bundle optimization, asset management and injection of environment variables.
- Mode: tells webpack to use its built-in optimizations accordingly.
 - ▶ 'development', 'production', 'none'
- Other parameters: DevTool, Resolve, Watch,

DOCCANO

Basic concepts

Definition (Doccano)

Doccano is an open source text annotation tool for humans.



Donald John Trump (born June 14, 1946) is the 45th and current president of the United States. Before entering politics, he was a businessman and television personality. Trump was born and raised in the New York City borough of Queens, and received a B.S. degree in economics from the Wharton School at the University of Pennsylvania. He took charge of his family's real-estate business in 1971, renamed it The Trump Organization, and expanded its operations from Queens and Brooklyn into Manhattan. The company built or renovated skyscrapers, hotels, casinos, and golf courses. Trump later started various side ventures, mostly by licensing his name. He owned the Miss Universe and Miss USA beauty pageants from 1996 to 2015, and produced and hosted The Apprentice, a reality television show, from 2003 to 2015. Forbes estimates his net worth to be \$3.1 billion.

Key	Value
wikipediaID	4848272
Born	1946
Political party	Republican
Spouse	Melania Trump
Parents	Fred Trump, Mary Anne MacLeod Trump
Residence	White House

Named Entity Recognition

DOCCANO

Some features

- 1 Sentiment analysis
- 2 Named Entity Recognition
- 3 Translation

Some properties:

- Single microservice application.
- Use VueJS framework to build front-end.
- Use webpack to bundle all assets.

DOCCANO

How to start

Requirements:

- Python
- NodeJS

```
1 sudo apt install nodejs
2
```

- Node package manager

```
1 npm install npm@latest -g
2
```

- Clone doccano:

```
1 git clone https://github.com/chakki-works/doccano.git
2
```

DOCCANO

How to start

Steps:

① Create an environment :

```
1    cd doccano
2    virtualenv venv
3    source venv/bin/activate    # activate the environment
4
```

② Install required packages :

```
1    <venv> pip install -r requirements.txt # not easy
2
```

Steps:

③ Build front-end library :

```
1 <venv> cd app/server
2 <venv> npm install
3
```

④ Build front-end source code :

```
1 <venv> npm run build
2
```

⑤ Initialize and run doccano :

```
1 <venv> python manage.py migrate
2 <venv> python manage.py runserver
3
```

REFERENCES

- 1 <https://vuejsdevelopers.com/2018/12/04/vue-js-2019-knowledge-map/>
- 2 <https://vuejs.org/>
- 3 <https://router.vuejs.org/>
- 4 <https://vuex.vuejs.org/>
- 5 <https://webpack.js.org/>
- 6 <https://vuetifyjs.com/en/>
- 7 <https://vue-test-utils.vuejs.org/>
- 8 <https://github.com/doccano/doccano/>