

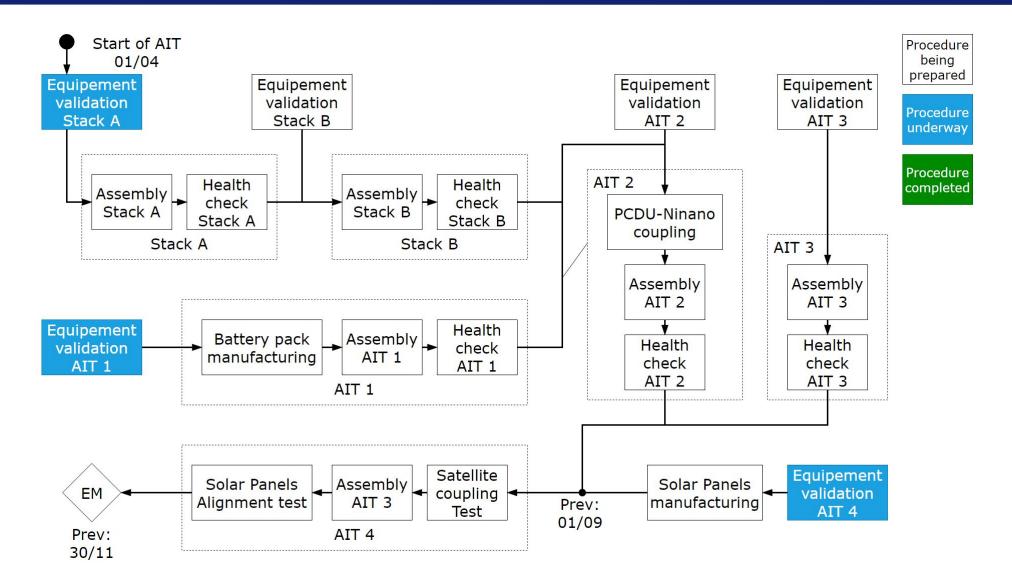


Table of content

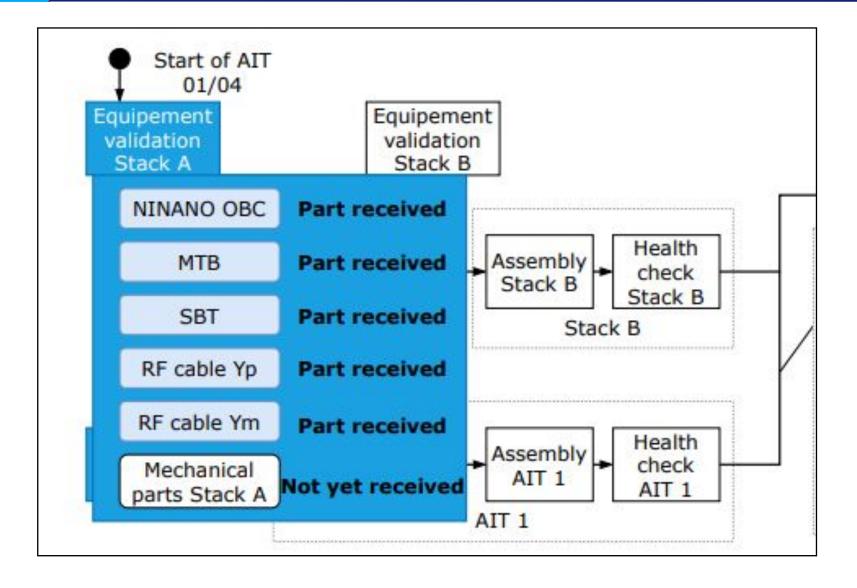
- > General presentation
- > How does websites works
- > Means and tools (technologies)
- > What are frameworks and why do we use them?
- > Demo

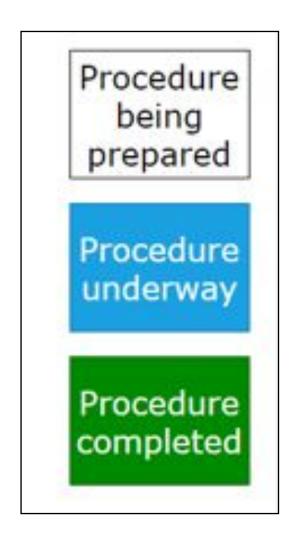
General presentation

General presentation



General presentation





How does websites work?

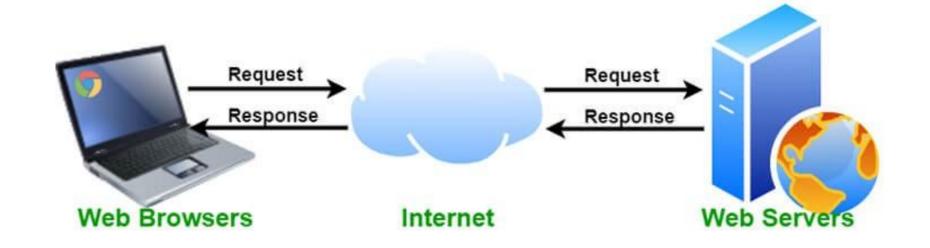
How does websites work?

- Web browser
- Web Server
- Code files (HTML, CSS, JS)
- Front-end / back-end

What is a browser?



Web server



Code files





Hypertext Markup Language

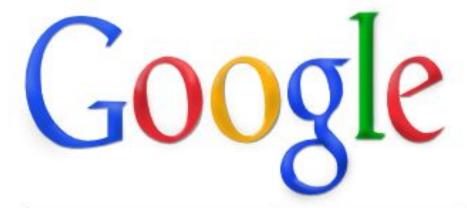


Cascading Style Sheets



Example 1: Google page with HTML

- Gmail
- Image
- connexion

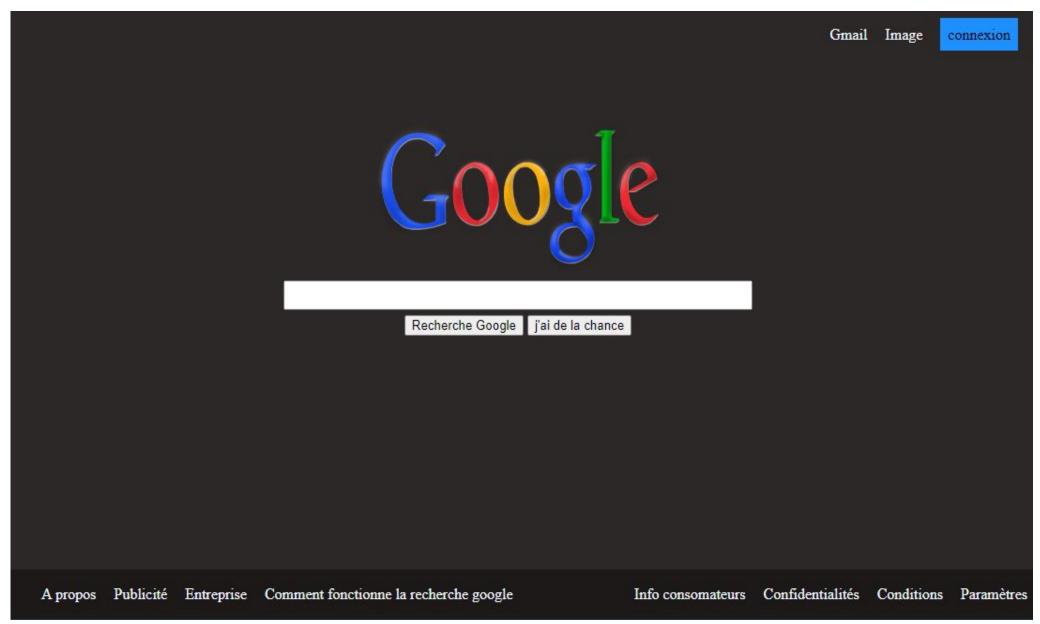


Recherche Google

j'ai de la chance

- A propos
- Publicité
- Entreprise
- Comment fonctionne la recherche google
- Info consomateurs
- Confidentialités
- Conditions
- Paramètres

Example 1: Google page with HTML + CSS

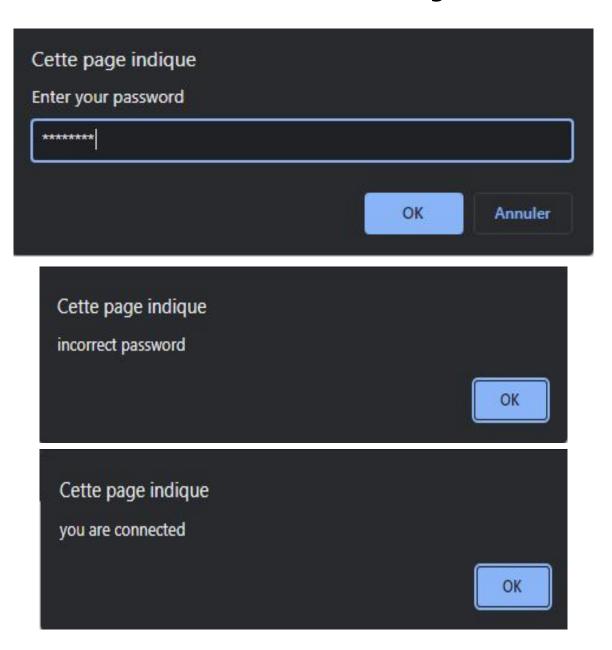


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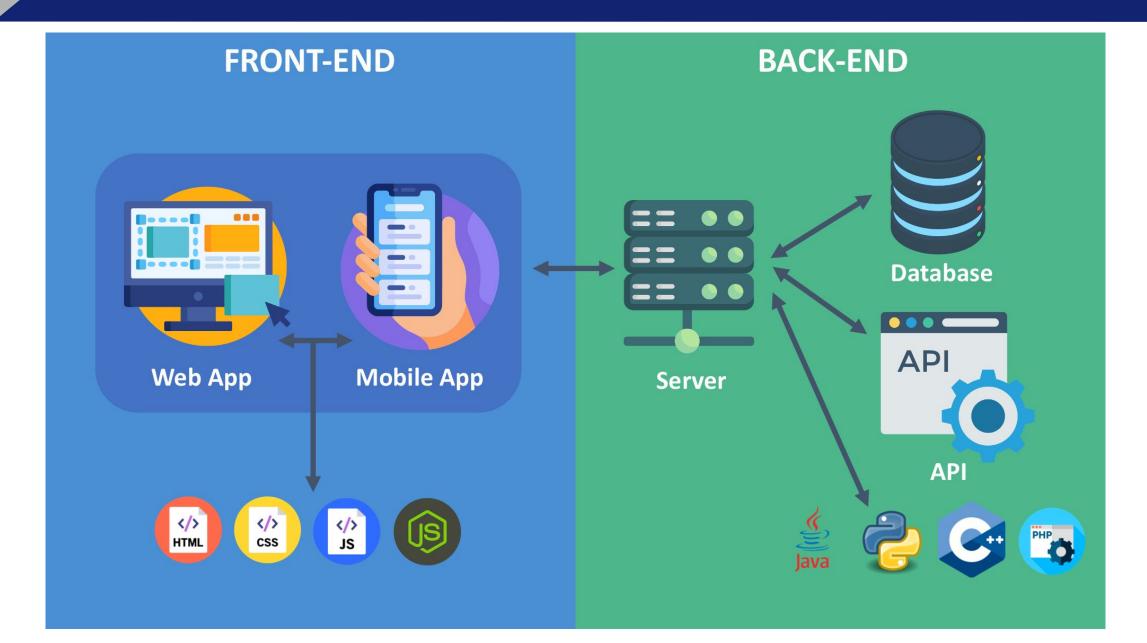
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Example 2: password verification with javaScript

```
<script>
   function demanderMDP(){
      var mdp= prompt("Enter your password ");
       if(verif(mdp) && mdp.match(/\d{3}$/)){
           alert("you are connected");
       else{
           alert("incorrect password");
           demanderMDP();
   function verif(n){
       if((n\%5 == 0) \&\& n>505){
           return true;
       else return false;
   demanderMDP();
</script>
```

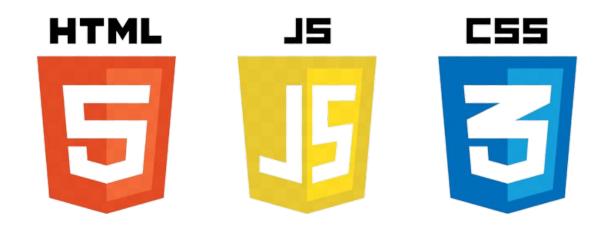


Front-end / back-end



Means and tools

Means and tools











Node js and NPM package

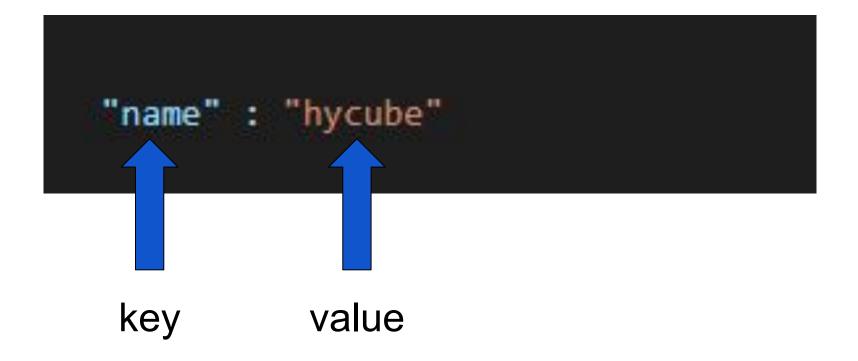
Node.js is what allows javaScript to run on a server



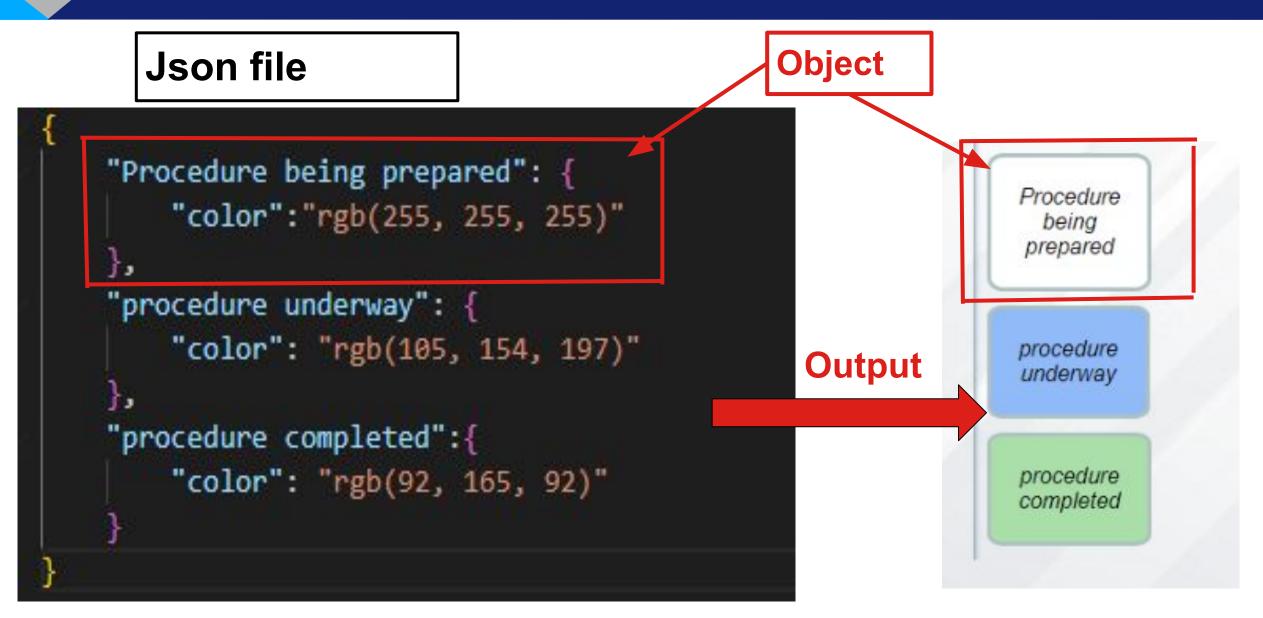


Node Package Manager

JSON (JavaScript Object Notation)



JSON (JavaScript Object Notation)

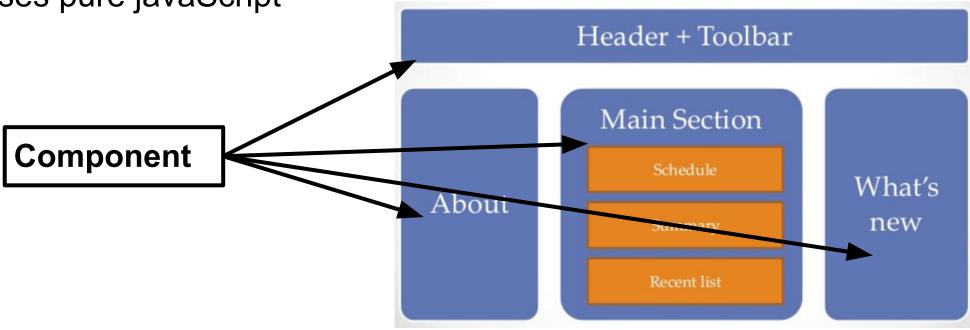


Vue.js framework

- javaScript front-end framework
- small and efficient
- fast at run time

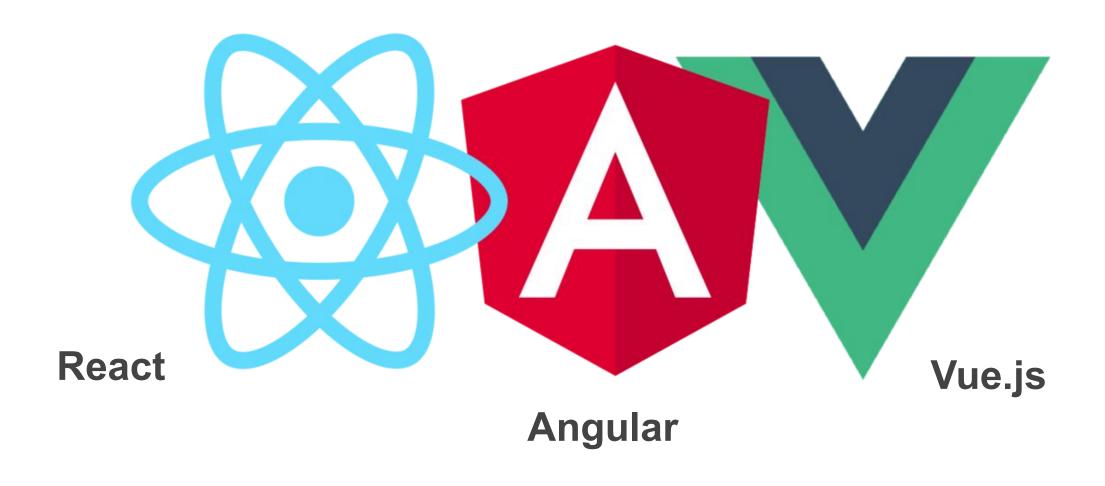
uses pure javaScript





Why do we use frameworks?

What are frameworks and why do we use them?

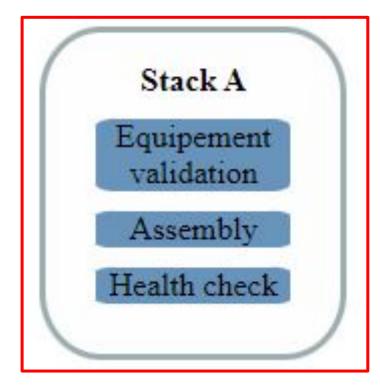


Example 1: generating one component

Using a framework

```
<template>
    <div class="component" >
        <div class="name">
            {{itemName}}
        </div>
        <div class="menu-items">
            Equipement validation
        </div>
        <div class="menu-items">
            Assembly
        </div>
        <div class="menu-items">
            Health check
        </div>
    </div>
</template>
<script>
export default{
    data () {
        return {
            itemName: "Stack A"
</script>
```

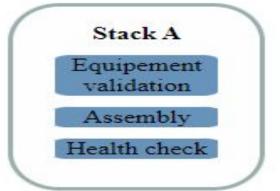
Component

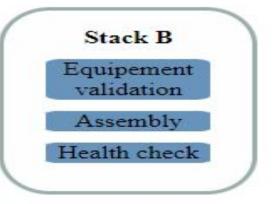


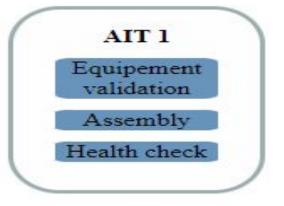
Without a framework

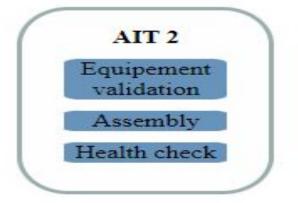
```
<body>
    <div class="component">
        <div class="componentName">
            Stack A
        </div>
        <div class="menu-item">
            Equipement validation
        </div>
        <div class="menu-item">
            Assembly
        </div>
        <div class="menu-item">
            Health check
        </div>
    </div>
</body>
```

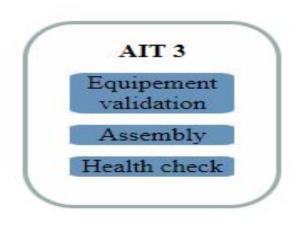
Example 2 : generating multiple components

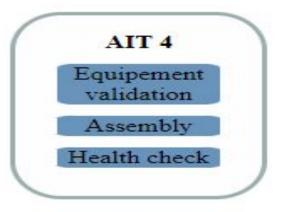












Using a framework

```
<template>
    <div class="component" v-for="(name, index) in names" :key="index" >
        <div class="name">
            {{itemName}}
        </div>
        <div class="menu-items">
            Equipement validation
        </div>
        <div class="menu-items">
            Assembly
        </div>
        <div class="menu-items">
            Health check
        </div>
    </div>
</template>
<script>
'use strict';
let jsonData = require('.../.../data/AitData.json');
export default{
    data () {
        return {
            itemName: Object.keys(jsonData)
</script>
```

Without using a framework

```
<div class="component">
                                                                                                           <div class="component">
<body>
                                                            <div class="componentName">
   <div class="component">
                                                                                                               <div class="componentName">
       <div class="componentName">
                                                                <b> AIT 1 </b>
                                                                                                                   <br />
b> AIT 3 </b>
           <b> Stack A </b>
                                                           </div>
        </div>
                                                           <div class="menu-item">
                                                                                                               <div class="menu-item">
        <div class="menu-item">
                                                               Equipement validation
                                                                                                                   Equipement validation
           Equipement validation
                                                           </div>
                                                                                                               </div>
                                                           <div class="menu-item">
                                                                                                               <div class="menu-item">
       <div class="menu-item">
                                                               Assembly
                                                                                                                   Assembly
           Assembly
                                                                                                               </div>
                                                           <div class="menu-item">
                                                                                                               <div class="menu-item">
        <div class="menu-item">
                                                               Health check
                                                                                                                   Health check
            Health check
                                                           </div>
                                              42
                                                                                                 70
                                                                                                               </div>
                                              43
                                                                                                           </div>
                                                                                                 71
                                                       <div class="component">
                                                                                                           <div class="component">
   <div class="component">
                                                           <div class="componentName">
                                                                                                               <div class="componentName">
                                              45
       <div class="componentName">
                                                                <b> AIT 2 </b>
                                              46
                                                                                                                   <h> ATT 4 </h>
           <br />
b> Stack B </b>
                                                                                                               </div>
                                              47
                                                           <div class="menu-item">
                                                                                                               <div class="menu-item">
       <div class="menu-item">
                                                               Equipement validation
                                                                                                                   Equipement validation
           Equipement validation
                                                           </div>
                                                                                                               </div>
                                                           <div class="menu-item">
                                                                                                               <div class="menu-item">
       <div class="menu-item">
                                                               Assembly
                                                                                                                   Assembly
            Assembly
                                                           </div>
                                                                                                               </div>
                                                           <div class="menu-item">
                                                                                                               <div class="menu-item">
                                                                                                 82
       <div class="menu-item">
                                                               Health check
                                                                                                                   Health check
           Health check
                                                                                                               </div>
       </div>
                                                                                                           </div>
```

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Questions?

