T7 - MSc Pool

T-POO-700

Web Interfaces

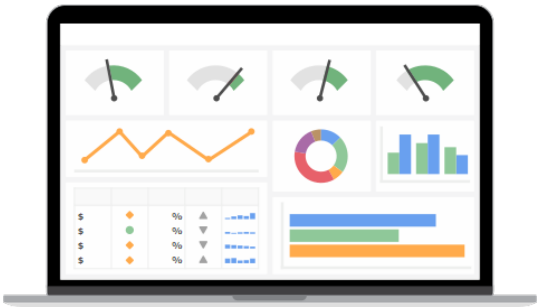
Project

1.2

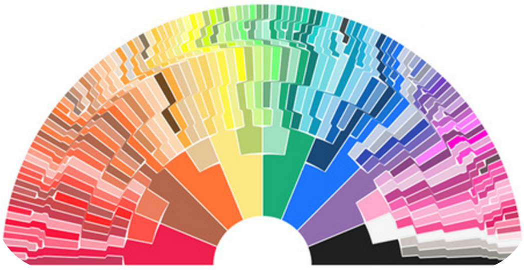
A meeting is planned between your manager and the Mayor of Gotham next week.
Your manager must make a first demo of the application.He asks you to put in place the employee information display so that he can give an overview of the final result.

Before you start, make sure you have **finished** and **assimilated all the concepts** discussed in the Bootstrap.
In addition, you will need to use the API that you developed previously, so make sure it is functional.

The goal is to create a user interface that displays graphs and dashboards to visualize a person's working time.



This project is part of a problematic of *Data Visualization*, which consists in the graphic representation of figures or raw data.



Some organizational constraints have also been imposed by your project manager :

- you must use the JavaScript framework Vue.JS to create the interface, and vue-morris for graphics.
- for ergonomics reasons, you will only need **one and only one** view, defined in a `App.vue` file in the/ `src` folder.
- all the components must be in the `/src/components` folder.
  Five components are required :

  1. **User**
     This component will be used to identify the current user, and must be present on all pages of your web application.
     It must implement the following methods (with self-explanatory names) : `createUser()`, `updateUser()`, `getUser()` and `deleteUser()`.# br
  2. **WorkingTimes**
     This component will be used to display the working times recorded by the API. It is connected to the */workingTimes/:userI* route.
     It should also have at least the `userId` and`workingTimes` data (the table summarizing the offset times) and the `getWorkingTimes()` method.
  3. **WorkingTime**
     This component will be used for displaying, creating, modifying and deleting a working time.
     It will be linked to the routes */workingTime/:userid* (for creation) and */workingTime/:userid/:workingtimeid* (for modification and deletion).
     It will implement the methods `createWorkingTime()`, `updateWorkingTime()`, `deleteWorkingTime()`.
  4. **ClockManager**
     Connected to the */clock/:username* route, this component will be used to declare hours worked.
     It must have `startDateTime` data (is worth *null* if no work period is in progress) and `clockIn` (a boolean that is *true* if a work period is in progress) and the `refresh()` methods and `clock()` (to pass from active to inactive and vice versa).
  5. **ChartManager**
     Connected to the */chartManager/:userid* route, this component is used to manage the graphs.

  > You can create a specific component per chart, but you **must** have the ChartManager component. If you decide to use different components for each chart, you **must** use the Vue.JS routing system.

- you must come up with at least three graphs, configurable, and of different types (bar, line, pie, radar or other type of chart) ; your manager would like to impress the mayor, who is used to cryptographic sequencers and other bat gadgets.

ALL your dates and times should be stored as follows : “YYYY-MM-DD hh:mm:ss”. Look at the *watch* side of the components.

The overall rendering of your application and its ergonomics are essential for a good user experience. A good UX and appropriate features must be your priority, otherwise your application may never be used!