2018

Web project

PFH FEI - COLLOQUE
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I. Aim of the project :

Our project consists of creating a Web page compose of all the technicals points seen in the course during one week :

- Html
- JavaScript/Vue.js
- Node.js
- …

II. Subject of the project :

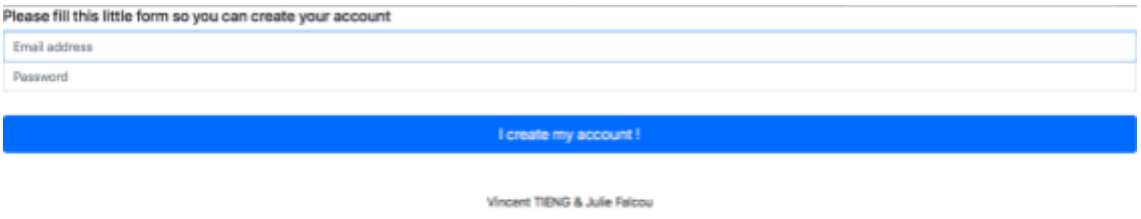
In order to reach this goal, we drew inspiration from an event that takes place every year at the school : the **PFH FEI – Colloque**

Thanks to our website, you will be able to find all the information about 2 of the 3 proposed events and especially to be able to register there.

How it works ?

At first, you will find a login page.

And if you don't have an account you can click on « Don't have an account yet ? Sign up Here » that will lead you on an other page.



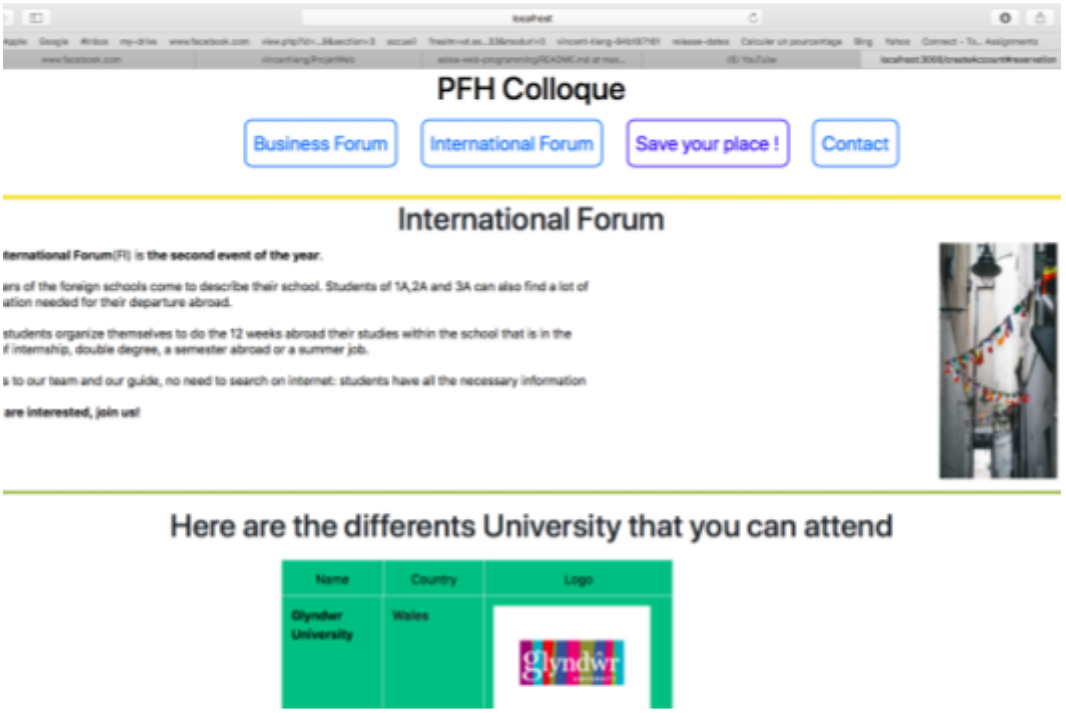
There is nothing easier !

You just need to create an account using an email address and a password. We record this information so that you can easily reconnect later.

Then you will be able to access 4 different parts of the website :

- ☑ 2 parts to describe the events
- ☑ 1 to contact us
- ☑ 1 to join an event or 2

Here is a screen of the main page



III. Technical elements :

Registration part

As we said earlier in the description of the project, the user needs to log in to access the different elements. He has 2 possibilities

- ☑ **connect for the first time :** he is suggested to click on a button that brings him back to a page with a form where he will have to, fill in his email and password. This information is then stored in a **Json file**. After registering, the user is redirected to the main page.
- ☑ **reconnect:** data will then be used in the connection section to check whether the information entered corresponds to an account. If the information is correct, we redirect the user to the main page. Otherwise, the page will refresh.

Difficulties : There are no particular difficulties in this part but it requires to know very particular **functions characteristic of the use of a JSON file**

Example : JSON.parse(), JSON.stringify()

Design part

At first glance the design may seem a very easy part. But it's a mistake. This part asks to have an overview of his project, to know his code. It combines both **CSS and HTML** and allows to determine the location of each element by juxtaposing or embedding them.
In order to carry out the design, it is very important to separate the components using the ** </ div>** tag. This then makes it possible to apply the characteristics of one or more classes to our component.

Difficulties :
The form part was the biggest difficulty of this part: many elements are present next to each other and quite compactly.
To help us, we use **Bootstrap.** There are plenty of examples of elements and design as well as explanations on the whole code. Then we just adapt it.
But this part also requires **a lot of time.**

Presentation part :

On our main page we have 2 tables presenting the partner schools (for the International Forum) and the partner companies (for the Business Forum). They are made up of **logo, Internet link and text**. We loaded this array through Vue. Js methods.

Difficulties :
We had to choose the type of table we wanted. Indeed, **HTML allows us to easily build** a table and to put a lot of information. But it takes **a lot of line of code** which is not professional. To compensate, we choose to use the **Vue.js** to build our tables. Another problem encountered was the management of data between **HTML and JSON**. Indeed, some data was overwritten.

Event part :

The objective of this part is to link a questionnaire and a table in which all the registered persons appear. For that we used Vue.js which allows very easily and quickly the link between the variables or the components (v-model, v-for ...)

Difficulties :

- **Management of conditions :** The form is composed of many conditions. Indeed, it is important to inform the user of all the problems encountered when filling out the questionnaire. If some parts are not filled or selected, an **alert message appears**. we need one condition for each field. But to stick closer to reality, each event is reserved for certain classes: **FE for 4A / 5A and FI for 1A / 2A / 3A.** This adds further conditions.
- **A filter :** In order for someone to check if they are registered without having to go through the entire table, we have chosen to create a filter based on the first name. It was thus necessary to create a filter and thus to choose the method well to **take into account the variable, to browse the table and to return it.** Several methods exist but we have chosen existing functions which we had to divert the utility including the **function "match" which returns what we removed and displays it while we want to display what we kept**
- **Refresh the page :** One of the main difficulties was to save the information in the table so that the list of subscribers reappear when the page is refreshed or when a disconnection. We have also used JSON but using another method including the function **"mounted"** and function **"saveclient"**

IV. Points of improvement if we had the time:

- Create a link between the variable of “sign in” and the table of register to delete the part where the user must give his name to delete his participation to an event
- A better design
- More technical parts

V. Conclusion :

It was a interesting project, we have improve our coding skill and especially learn new framework such as Node JS and Vue JS. Even if it was difficult, we learn to solve the differents problems encountered.