Project Report

Visit and discover the campus as if you were there.

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Summary

Introduction

First of all, we will present our project in HTML, what it is and how we proceeded.
Secondly, we will look at the biggest difficulties encountered in creating the software, the moments where we blocked, and we need to go other ways.
Then, we will analyze our project, the important lines of code, why did we decide to do this or that.
Finally, we will see the different algorithms used, the resources we used and the different functions of the software.
And we will conclude on what the project has brought us.

Presentation of the Project

The project that we realized is a website which directly enter in the philosophy of our school: EFREI Paris. First, the aim of this project was to help the society with the help of technologies. When we talked about this topic with one of our teacher, he told us about the projects of the last year. One of us was an improvement for the website of the school, and we thought that we could add a new functionality to the website: an **interactive map** with a **360° virtual tour**.

Main Difficulties

The hardest part was in the beginning. We had to organize the tasks we had to do. The first tasks were very long, indeed, we had to collect information and pictures on the spot. On the campus we've got many buildings with many rooms, which made harder the work for organize ourselves, design the map and take the pictures. Then we had to respect the graphical charter which was a huge challenge. Thanks to our designer, Lucas Champsaur, we could make it.

Analysis of the Project

Our project is divided in three parts, an HTML file, a CSS file and a JQuery file. Each one has its utility, the first one will define the contents of our website. We wanted a simple and ergonomic website from the beginning.

We started with a simple map of the campus which we photographed at the reception of the school. Then we decided to implemented a functionality that we saw on a few websites of abroad university: the virtual tour.

The principle is very simple; you shoot with à 360° camera the different paths of the campus to allow students who cannot go to EFREI Paris to discover the school. We imagined many ways to implement it (Unity, etc) but we decided to respect the timing to use an external website called *Veer.tv* to implement those different 360°s views. The website directly gives us the means to create a virtual tour to easily implement it in our website with a simple button at the bottom of the latter.

Another big part of the project was the esthetical part: the CSS. We discover the joys of the web coding. We took more time to fixed display bug which were different depending on the browser. Every time we wanted the website to operate and display correctly on each support and we did it. (Responsive design)

The JQuery part was very useful to implement all the animations of the website and all the functionality including the "mouse over", the management of the "overlay", etc.

The last thing we wanted to care about was the hosting of the website to allow everyone to discover our work and in some way test our website to check if we succeeded the main objective: help the students and possibly, the future students.

CSS

Jquery

HTML

Conclusion

This project enabled us to work in groups but also to organize us to separate the tasks to be done and especially respect the timing imposed. This one also allowed us to meet many times to discuss and debate how we were going to code some functionalities, help each other on the different points where we disagreed or when we were blocked. Apart from the group work, this project allowed us to confirm our knowledges about the web coding, HTML, CSS, Jquery languages are very different but still complementary to create at the same time a functional and esthetical website. Explore the possibilities that those languages open was a good experimentation.