



McFat Web Application Documentation

Web technology
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1 Application description

Mac group was composed by four students and four different nationalities. Croatian, French, Swedish and Finnish. Unfortunately, one of us drop the course just in the middle. But, As part of our Erasmus exchange program, we wanted to develop a web application which could be used by a lot of people around the world and especially by Erasmus people.

Our application reached this goal because, thanks to it, every european student is now able to find important information about McDonald in Europe.

Our McFat Web Application is divided into four different parts, each including different functionalities:

- MacHome
- MacMap
- MacStats
- MacMenu

2 Functionalities

2.1 MacHome

The MacHome page is basically a simple home page which includes 3 different things. A McDonald logo, a brief description of the application and a navigation bar which helps you to reach any other part of our application.

2.2 MacMap

The MacMap page is a little bit more complex. Indeed, like all other pages, it includes the navigation bar but also a map and one button.

The map is rendered by an external map API provided by <https://www.esri.com>. Thanks to this API, you can easily navigate on the map, zoom-in or zoom-out on it. Also, you can see that almost all european McDonald locations are displayed on it. (We linked some data with the API). If you click on one location, it will display the latitude, the longitude and the city of this location.

The second thing on this page is the button "Display your coordinates and find the nearest McDonald!". If you click on this button our application will give you your location (if you accept it) and give you how far is the nearest McDonald and in which city!

2.3 MacStats

On the MacStats page you can find some new different elements. Indeed, on this page, thanks to 2 different forms, users can display some statistics about European McDonalds.

For example, you can select as many countries as you wish and choose which data you want to know such as number of restaurants in these countries, number of restaurants per 100k inhabitants... When you click on the button "Draw Statistic", some charts will appear and show you the data you asked for.

2.4 MacMenu

3 Web technologies used

In our application we used a lot of different web technologies.

First of all AJAX. Our application is an asynchronous web application. To perform this task, we used the jQuery API.

We also used some HTML5 technologies which were required:

- Canvas as graphic technology for the statistic charts on MacStats
- WebStorage as database to store all the McDonald locations and do some analysis on it
- WebWorkers on the MacMenu page which allow you to send your menu by mail to someone
- The Geolocation API to find the user's location on MacMap
- Some HTML5 forms on MacStats
- The drag and drop HTML5 technology on MacMenu.

4 Separation of concerns

5 Context of implementation