Lors de l’entretien avec notre professeur référent, les réponses à nos questions nous ont permis d’avoir une vision plus claire sur notre projet.

Dans un 1er temps, nous avons fait des recherches sur les différentes technologies qu’on doit utiliser :

Google Maps afin d’utiliser ses APIs comme géocoder (obtenir d’une adresse la Longitude et la Latitude)

Mongodb recherche géo spatiale (permettre de gérer le rayon de recherche)

Node serveur qui gère du Json

Last Fm récupérer les données associées aux salles de concerts

De plus, nous avons commencé à travailler sur le design du site web.

Nous avons réussi à faire fonctionner un prototype en se basant uniquement sur les APIs Last Fm geo.getEvent pour récupérer les informations et les afficher à l’aide des APIs de Google Maps, insérant la longitude et la latitude.

La rédaction de la documentation (Cahier des charges, de recette) a été réalisée.

## Introduction

Good morning, ladies and gentleman,

On behalf of my team, I would like to welcome you.

I would like to introduce my team. (Introduce team)

This morning (today) we’d like to present our new web application which we have developed during this semester.

So, we had to design a web application to geo-localize a concert near a given address and to give users enough information on concerts. informations such as, when it is on and who are the musicians. This is generally based on its longitude and latitude coordination, which are sent to Google Maps in order to plot theses addresses on a map.

In order to be able to do this we were asked to use different tools and APIs (as follows):

* LastFm APIs: to get concert information.
* MongoDB: a document-oriented database manager.
* Google Maps: to geo-localize an address and to plot concerts on it.

## Development

Upon our meeting with our tutor, we had clearer answers to our questions allowed us to have a better vision on this project.

We first started by researching different technologies that we used during our development which are as follows:

* Google Maps: used to get its APIs like geoCoder (to obtain GPS coordination from an address)
* Node.js: is a language based on the Google V8 Javascript Engine which does the same thing but in a simpler way, meaning creating client/server - side systems
* MongoDB: No-SQL database management system used to store concert information on it
* JavaScript: a Web-Based scripting language
* jQuery: a helpful library of JavaScript
* AJAX: Asynchronous JavaScript and XML

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During our work on this project we were asked to write enough documents. Such as the specifications sheet, receipts book, development book, final report and every week after our meeting with our tutor we were asked to write reviews (activity report) that were to be returned within the following 24 hours.

# Conclusion

So with all the time limitations we managed to finish this project on time and we are pleased to say that it is functional.

## Difficulties

I’d like to point out some difficulties we encountered during this project.

Well, they always say technology is great, which indeed it is, but it has its own ups downs too.

For example, we used Node.js for client/server-side communications, which is a great tool for this job. But this tool is very new and it was released in 2011. This means less support and documentation.

The other hard part was to get this young tool to work with another young database manager. Which in total had not much documentation or many tutorials. Also to get these to work together we needed a driver, which wasn’t even a stable version.

We’d like to thank you for your attention, and feel free to ask any questions.