# NCI Web Application Development

*Group Project*

|  |  |
| --- | --- |
| **Group Name** | |
| Calendar Map Team | |
| **Student Names** | **GitHub Accounts** |
| MARK GASKIN - 16111931 | Markog222 |
| STEFAN DWORSCHAK - 15037835 | stefdworschak |
| GRAHAM FARRELL - 15044726 | GrahamFarrell1984 |
| **Link to your final Workspace in Codeanywhere (just one)** | |
|  | |
| **Node.js modules used in the project (if applicable)** | |
|  | |
| **GitHub Repository** | |
| <https://github.com/stefdworschak/web_development_nci> | |

## **Purpose of Document**

This document is to provide a brief report outlining each of the technologies used in the project, where they were used and what were the advantages of using the chosen technology over another.

## 

## **Intended Audience**

Mikhail Timofeev

## **Project Report**

**Executive summary:**

Based on the initial review of this project the team took the line of developing a mapping tool within a website. The team examined the functionality of the google API for maps and GEOCODE which was incorporated into the application. During early discussions it was decided to change focus of the application to a Calendar mapping and notation tool.

The first page allows the user to complete the following tasks:

* Log in
* Create a new user

The second [main] page allows the user to complete the following tasks:

* View any current calendar entries on the map
* Add new events
* View Data List for previous entries in the table format
* Delete entries from the data list table format
* Share your calendar entries with friends by entering their email address
* Log Out
* Change Password
* View shared calendars
* Search for entries
* Hoover over map markers for more information

The final application provides the user, be it for personal or work use, with the ability to log upcoming events so they can be tracked and logged within the main page map. They can also share their entries with friends or colleagues to show their current availability or current location.

**Technologies used and their advantages:**

Google Maps API

The well-known service provided by google and used by billions was a key tool utilised within our project. The implementation of this tool was difficult at first to work into the project but with the multitude of available tutorials online the team was able to incorporate the mapping tool.

Starting off, to use mapping service from google requires you to create a google account. Once signed in you can follow some easy steps to generate the map API which was built into our index.ajs code. Built into the background of the google map API is the ability to share addresses and add markers for newly entered locations. In comparison to other mapping API’s, such as MapQuest or Bing Maps, the Google Maps API had much more online resources and provided more follow-on functionality.

Google Geocode API

The GEOCODE API used in this project was implement in the same way as the Maps API. The GEOCODE allowed the team to extract the exact location of any new entries and log this within the XML. This data was then saved in our data list table. Again, like the Maps API the GEOCODE API provided much more follow on functionality then other GEOCODE services like MapQuest, Bing, Yahoo and many others.

Bootstrap

Bootstrap was an easy way for the group to provide a sleek and well framed website with using only a handle full of extra lines of code and div’s. The team utilised the Bootstrap Glyphicon and Modal within both the log in page and the main page. For each of the log in, add new event, data list, share calendar and multiple section button we added a Glyphicon that suited the task being selected. The modal format allowed for a smooth output of the functions or data within a confined area. Since Bootstrap is an open source search provided and is easily implemented within any HTML, CSS or JS the team did not look anywhere else for a similar output for the project.

XML

JSON

XSD

XSL

.EJS