**Brief description website works**

For the front-end, HTML5 used EasyUI as front-end frame. JQuery ajax as a way to request data from the backend. The google map of the page is based on Google’s JS API to do the red point and show the logic

For the end-back, mainly divided into two sections. First, we use request.php to send a request to Auckland Transport Developer Portal to get all the vehicle information and pass the information to the front desk. Second, we put MySql database data into the EasyUI data grid

Website will initially create a data grid, then through calling visttrip.php to acquire all of short name and long name data, which can be displayed on the website. The system will get the short name you picked and send short name as ID to sendtrip.php through js (Java Script). Moreover, as we noticed that each trip has associated route\_id, thus, when sendtrip.php get the ID, we get trip\_ids from joining the routes and trips table. Meanwhile, we call the function apiCall in request.php to get all vehicle information from Auckland Transport Developer Portal, then all relevant information will be sent to page side. Finally, page side will display labels (red points) through longitude and latitude ruled by the requirement of Google API after page side received the information.

**Kai Chen**

This group assignment is different from others group works I have ever met. Because this is the only coding assignment, we should do it step by step, hard to do it separately at home. So how we meet up every time became a big problem to us. I also learn a lot from it, I know how to communicate with group mates and how to manage my schedule for the group meeting. I made a lot of mistakes at the beginning, there are few times we already settled the time but after then I found I couldn’t make it. This caused a lot of problems with our group meeting. But finally, we made it.  For the assignment, each of us has our advantages and shortages, but for a large part, we lost in it as we all do not know what to do at all, but we find the way to solve it, whatever by google or asking tutor. I know how to solve problems from the assignment, sometimes we have no point and clue about what to do, but we cannot just give up, instead I will use all the resources available to solve it. This group assignment taught me a lot, both from technical acknowledge and human skill. Anyway, it is my first time really know how to create a small functional web page.

**Yifan Li**

In this assignment, we learned how to find google API and directly apply API to connect to Google’s server. We also use Github to communicate with each member, even though there is existing some difficulties in different formats of coding.  This is truly difficulty that needs to be overcome because team members have different habit and programming style. For example, at the beginning, each of us would like to use simple variable names simplify programming process. However, as we use our meaningless variable name, we often forget or confused some variables’ purpose when we go back to previous part. This also increase the difficulty of debugging. Hence, we did not determine to assign different task to each member in order to avoid potential problem like different variable name using and different indentation using. We had group meeting each Friday and Tuesday in past few months and completing programing together. Besides, we learned to use documentation after some key part to hint us the initial purposes which indeed boost our progress. If we can meet similar project in followed study, we would like to study to overcome this problem and learn how to rule each member to has as possible as similar patterns of programming.

**Yaxin Zhang**

On the business logic of traffic, first, we created an account and registered the Auckland Transport Developer Portal. We made a data request on the government website, then we got a complete vehicle data display. However, we do not know if we did it right, because we were trying to find all of the current vehicles shown on the route we chose, but it comes out that every route we chose, the Auckland Transport API always returns a huge number of trip\_ids. And we found that another group had the same question, but we do not really understand the answer of it. We just tried our best to do what we can. Then we tried to build a server, because we used our own computer to make the map, after we have done half of the project, we could not open a complete procedure on the school, so we did another half of it on our own pc and sent our own job by Github and talk about our process by emails. We also connected the server to the database to realize the data’s showing on the map.  In the meantime, we held like 2 team meetings every week to integrate our parts, we had some problem scheduling the meeting, but we came over it in the end. It was fun to work as a team, we learnt a lot from each other in this project.

**Li Wan**

For this assignment, the hardest thing is to know how to start, but fortunately the tutor gave us a lot of help. From the beginning we meet a lot of problems and now we already done the project that we learned a lot. For the CSS styling, we choose using EasyUI to do. Although the project file has been recommended in the two CSS styling, but we compare the three CSS styling, because EasyUI have more detail teaching video, and finally chose to use EasyUI.