



Maynooth University Carpool

A car sharing Web Application for Staff and Students of Maynooth University

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OVERVIEW

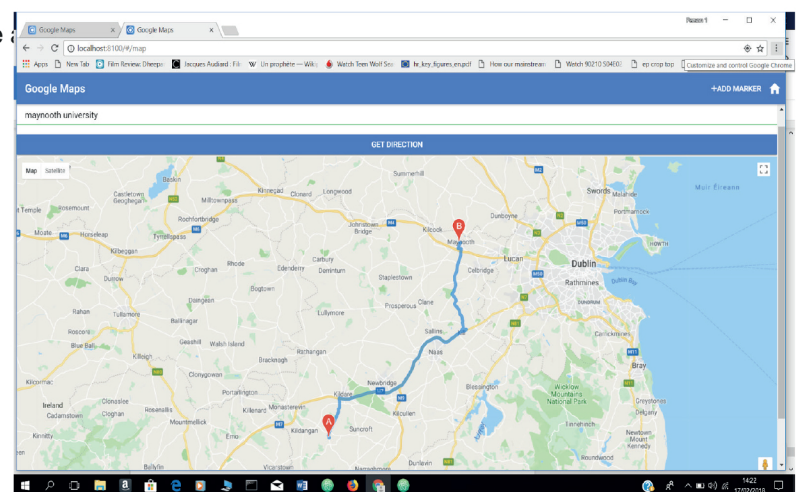
A key goal of Maynooth University Campus Travel and Traffic Management is to seek a reduction in demand for on-campus parking by obtaining a reduction in the level of single occupant car journeys.



Therefore, this project was undertaken in 2018. The topic addressed by this project is to provide students and staff who travel to and from Maynooth University with a car sharing option. The Maynooth CarPool app offers staff and students a means to create a profile, log in and search for other students or staff members travelling the same route they themselves are, this is done using a matching algorithm to achieve this goal. Once a match is found they can then email that person to organise a shared commute to and from Maynooth University.

RESULTS

This application was a prototype and was able to provide an acceptable level of performance to achieve this. Although there are many carpool systems available for users in general to use on a wide scale this prototype is the first of its kind specifically tailored for Maynooth staff and students.



CONCLUSION

This project was able to achieve creating an online web application that allows users to partake in the event of carpooling/car sharing. The function requirements on the Login page, Register page, Profile page, and Homepage were achieved. There are several functions contained within the matching algorithm but to attain an acceptable outcome not all were used as it is a highly complex algorithm. There is potential for future work On the Matching Algorithm.

Project: <https://github.com/johnmac4/carPool>
Project Console: <https://console.firebase.google.com/project/carpool-21760/overview>
Hosting URL: <https://carpool-21760.firebaseio.com>



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