# Thesis Ride share web application

#### Introduction

Ride-share (Carpooling) is a brand new type of travelling ,the mean idea of it is to share car journeys in order to reduce each person’s cost for the trip . it is more eco-friendly as well since it’s a good way to use up the full seating capacity of a car , which will left unused if only the driver is using the car. Authorities often encourage ride-share , as it can reduce air pollution , traffic congestion on the roads , and even the needs for parking lot , which is quite important for major big cities .

So how does carpooling goes ? Well usually drivers will post their ride and passengers will join part of or whole journey based on their needs , and share the travel cost . Drivers and passengers will contact each other to make an appointment for pick up places and may negotiate special need (such as large luggage) and price .

In order to post or share the carpooling information , we need such a platform . There are quite many platform for it , website , carpooling agency , pick-up point , carpooling groups and so on . With the development of mobile and website , the carpooling app is becoming more and more popular. After learning three years in University of Debrecen , it would be my pleasure to make this carpooling web application .

But why web application ? Instead of desktop or mobile apps ? Well the web application is more portable , light . You can open it any where on any phone . All you need is a web broswer , which is in every phone and computer. Apart from that , as web apps are cloud based , it is more easier to sync all the data and info between all the devices .

//Todo why web app

For web application , we usually devide it into front end and back end . The back end is more about dealing with database , handling data ,server , and implementing main logic and then provide the apis to front end , while front end is more about user interface and user interaction , reciving and sending data from back end .

//Front end back end picture here

As for our tech trace , I will use java and springboot frame work for my back end and typescript and react frame work for my front end .

## Backend part

#### Introduction to PostgresSQL

#### Introduction to Springboot

#### Introduction to Docker

#### Introduction to TypeScript

#### Introduction to React