The "OR" Project

Project goals –

Our goal is to create an alternative option to the public transportation system.
We want to solve the problem of time wasting on public transport.

Waiting an absurd amount of time for the bus to go through stops you aren't interested in, as we view it, is to blame for people opting out of using public transport.

Creating a better solution for shared transport will help reduce pollution omitted from cars, reduce traffic congestion, help smaller cities with poor public transport, and possibly even save money.

Project Scope –

As we currently view it, we will run our project on a specific city or a specific set of cities.
We want to start from a small prototype, in order to test our model, solution and algorithms. This way we can learn from our mistakes and implement corresponding improvements, before going big (like working on a whole country).

High-level features or requirements -

The product will allow the participants to get from and to arrive anywhere they'd like, granted the area is within the locations we decided to support at that time.

Going to and from work, going on errands, and taking children to after school classes or their friends. All of this will be possible, in an amount of time comparable with that of driving a private car, without the hassle of actually owning, driving and parking a private vehicle.

We view it as absolutely essential to be able to shorten the amount of time people spend with us on the road, as that is one of the main reasons people choose not to use public transport.

Moreover, we want to give relatively accurate time estimates.

Some desirable, but non-essential goals read as follows.
Adding to the system, as constraints, different preferences, such as men/women only vehicles, for those who might want that for religious reasons.

The algorithm will take the different preferences in to account and assign the customers only to vehicles that fit them personally.

Major milestones and deliverables -

Creating a useful and comfortable alternative to the current public transport and private transport.

We hope our system will be widely used, and that it will help both the users save time and effort, and lower the pollution omitted from the collective transportation.

Personally, we hope this project will help us develop our skills, in product managing, but mainly in implementing as much as we can, from the knowledge we gained in the past several years, studying in university. This includes, but is not limited to, implementing algorithms and testing them and advanced mathematical tools that we learned during our university studies.

For users of all ages who need a quick, relatively cheap, and hassle-free way to get to their destination.

The “OR” system allows users to order a minibus to a near bus station and get to the nearest bus station of their desired location.

That user will be assigned to the most efficient minibus from all currently driving mini buses in the area, adjusting its route in real time to transport the user, all while delivering good time estimation for the whole journey.

Unlike the classic public transportation systems, the “OR” system will stop only at specific bus stops for preordering users, to avoid time wasting and calculate the shortest route to satisfy all the users.

Our product will try to minimize the usage of private vehicles.