**Overview**

**Project Motivation**

Nowadays, more and more immigrants are moving to places such as North America, EU and so on, and most of them don't have access to a cheap and convenient way of transportation on the long run. Although there are public transportation devices for them to use, large amount of time is consumed by these, and the limited area it can reach actually are some important reasons that drive people to purchase their own cars. Taxis and Ubers are convenient enough however, are too expensive for new comers since most of them are either poorly paid or have no jobs at all, or depend on government assistance to support their family. For international students coming in for studies, they have the similar needs as well since the life in such countries costs much more than their home country. In addition, they need to pay rent, and their tuitions that are much higher than the local students add additional burden. Thus, a cheap and convenient form of transportation is needed by new immigrants and those who come here pursuing higher education.

**Brief Description**

Our goal is to combine the features of a public transportation and ride share apps such as Ubers. The person who provides the rides can first set up a route on map, and the people who live close to the route can register a place to let the driver pick him/her up. For example, if I want to go to Walmart for groceries, I'll put a driving route on map and who live close to that route don't need to spend tons of time or pay a big money to Uber. They can simply register a pick-up destination with a few dollars on my way to Walmart, and I'll pick him up on my way to there, drop him off on the way back. This is environmentally friendly as well.

**What the project will deliver**

In a small city such as Windsor, the transportation system is not quite accessible, which is why people heavily rely on personal cars. However, that is possible for low-income newcomers or bachelors or students who are financially already facing difficulty. Mobility services like Uber or Lyft is often too costly if one has to commute to a certain destination often but transit is not easily available. Carpooling in such cases not only provide a new form of transportation for these people but also provide reduce traffic and provide some form of income source to those providing rides. Parents or guardians who carpool daily for children can also save contacts with address to reach their destination, allowing them to go for a single ride rather than.

**Potential Customer**

As it is a ride sharing service, the customer could be anyone with or without a personal car. Those with cars will use the app to give rides, and those in need of ride will use the service to take rides.

**Project Goal**

***Functional goals:*** User will be having their own accounts, and they will login in with user name and password. Some features in google map will be used, mainly the map and find and set a route from a location to another on the map. And this route is visible for every user. Passengers can register a spot on the route, which is the place that this passenger going to get picked up, and its only visible for that passenger and driver. The limitation for passengers is 4.

***Strategic goals:*** For the strategy we will use, the strategy is applying increment model in developing the project. Since the features are clear for us and we know well about what we will develop, and we have a comprehensive understanding in the needs of the market, we will set each feature as goal and then we will complete them gradually one by one.

***Business goals:*** It will probably wont cost anything besides electricity fee since it will be just a sample with core features. And it will likely take 3 months or less for our group too accomplish this project.

***Technological goals:*** There will be a back up server which is pretty much the same with the main server once the main server is shut down. And there will be a limitation for this sample model, there will at most 30 users online simultaneously.

**Project Team**

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| --- | --- | --- |
| **Name** | **Responsibility** | **Availability & Comment** |
| Ming Dai | * Brainstorm the features of software * Identify objectives & strategic goals * Summarize overview | * Well responsive with communication * Diligently fulfilled assigned tasks |
| Ishrat Sikder | * Create communication report * Create delivery plan * Assign tasks & responsibilities | * Well responsive with communication * Diligently fulfilled assigned tasks |
| Sarah Rahimi | * Identify project & business goals * Summarize project goals | * Fairly responsive with communication * Completed tasks on time |
| Tinnon Luong | * Document milestones * Summarize project goals | * Fairly responsive with communication * Completed tasks on time |

**Schedule and Milestones**

|  |  |  |  |
| --- | --- | --- | --- |
| **Milestones** | **Description** | **Criteria** | **Date** |
| m1 | Start project | Topic identification | 18-09-2022 |
| m2 | Identifying purpose and requirements | Plan goals, requirements, customer needs, and scope | 23-09-2022 |
| m3 | Complete phase 1 | Complete project proposal | 07-10-2022 |
| m4 | Start modelling phase | Explore different project models | 08-10-2022 |
| m5 | Analyze different models | Finalize model | - |
| m6 | Complete modeling phase | Organize modelling | 13-11-2022 |
| m7 | Technical team begin app development | Start development | 13-11-2022 |
| m8 | Debrief development progress with project & technical team | Mid-development meeting | 25-11-2022 |
| m9 | Complete development for initial testing | First testing | 04-12-2022 |
| m10 | Review code, check if it does meet goals and requirement.  Check for any need for changes to our goals or requirement | Review project goals & product | - |

**Communication and Reporting**

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| --- | --- | --- | --- | --- | --- |
| **Communication type** | **Audience** | **Individual responsible** | **Distribution method(s)** | **Frequency** | **Objective** |
| Kick-off meeting | Project sponsor, team and stakeholders | Project manager | * Face-to-face meeting * Materials shared on project website | once | * Introduce project team * Review project objectives & management approach |
| Project team meeting | Project team | Project manager | * video conference / in-person * Materials shared on project website | weekly | * Review project status |
| Project budget | Finance manager / project manager | Project manager | * video conference / in-person * Materials shared on project website | Once (more if requested by finance team) | * Discuss finance management |
| Technical design meeting | Technical team | Technical lead | * video conference / in-person * Materials shared on project website | As needed | * Discuss and develop solution |
| Monthly status meeting | Project team | Project manager | * Face-to-face meeting * Materials shared on project website | Monthly | * Report project status to team |
| Project status reports | Project team, stakeholders, finance team, project sponsors | Project manager | * email | monthly | * Report project progress, costs, issues, updates, issues etc |

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| --- | --- | --- |
| **Deliverable** | **Individual responsible** | **Planned date** |
| Set kick-off meeting | Project manager | 20-09-2022 |
| Set project objectives | Project team | 23-09-2022 |
| Prepare project plan | Project team & sponsors | 25-09-2022 |
| Prepare budget plan | Finance team | 25-09-2022 |
| Assign team individual responsibilities | Project manager | 26-09-2022 |
| Submit proposal | Project manager | 07-10-2022 |
| Design wireframe/layout | Technical team | 15-10-2022 |
| Design UI/UX | Technical team | 20-10-2022 |
| Submit layout | Technical team | 13-11-2022 |
| Explore & Develop security system | Technical team | 30-10-2022 |
| System configuration | Technical team | 02-11-2022 |
| Development complete | Project & technical team | 03-12-2022 |
| First testing | Technical lead | 04-12-2022 |

**Delivery Plan**