Team Name: ERROR: ProjectNotFound

Tracking or distinguish bike, scooter or driving a car

Vehicle Type(Similar to google map provides a window to ask the customers what kind of vehicle they are using.)

Sign Up Information(privacy)

Sign up using apple id/google play and email?

Programming language and IDE suggestions:

* Flutter & Dart

Hash user information

* How sensitive is the data that we are collecting, will user privacy be a concern for the data?

What’s the aim of this project :

* compared with similar software,
* acceleration?
* Weather?
* Vehicle type?
* Average Speed?

What kind of research do we need to do?

What kind of information will you provide for us?

What are the factors that will help us distinguish between different vehicles?

What features does the app need, and what features will be a plus to add?

Title Page

**Executive Summary**(goes into group report at the end)

* Sales Pitch of your project
  + Highlight the benefits of your project
  + Do not list the features of your project here.
  + Tone: Persuasive. Use Active voice and personal pronouns(“We”)
* The Components

1. The opening paragraph: Attention grabber

**Project Background**(Rationale)

1. Explain the background of the problem

* Explain the current situation and identify shortcomings/problems.
* A comparison of the existing solutions
  + Cite relevant studies/Statistics to verify your claims.
  + Use Figures (for existing tools).

1. Link the background to your project's goals

* Which problems will be solved by your project?
* What benefit will the project have?

1. Research the problem that you are trying to solve

* Talk to the client/stakeholders/
* Refer to existing tools
* Refer to relevant books

**Specific Aims**

* Outline the specific aims of your project.
* Background section provides
  + The overall context
  + High Level goal
* Project Objectives are more detailed and specific
  + Specific
    - Tangible deliverables
  + Measurable
    - Be able to track progress
  + Achievable
    - Realistic
  + Relevant
    - To the client's needs
  + Time-Bound
    - Have a deadlines

**Project Methodology**

**List of question**

Notes:

Idea want to explore: convince public transport

Tool: app able to track some sensor information from commute and later

Create data to distinguish based on feathers, skill such as: machine learning

Don’t have to login/ but track information

Uni fully controlled app

**Bike vs Cars ： trick to distinguish and don’t need concern**

Support old version device

**MVP: (server not necessary)**

Key issue:

1. App development - android or ios
2. Documentation about framework (any od framework are fine)
3. Deployment easy to install (support on as much version of devices as possible)
4. Smart phones from last 3-4 years
5. Sensors gonna to track -> GPS,accelerate meters (and any other), e.g camera
6. Calculate acceleration from accelerate meters
7. Track on phone (locally)
8. How to store it (database schema) e.g mongoDB

Need time to make sure data accrue, GPS timeframe m/s

GUI -> home address/ work address -> Geo cord

Storing data / then analysis the type of vehicles

Budget available for devices

Aim: to get more people to commute by bikes,incentivize people to commute by bikes.

Convince public transport in a way to incentivize bikers to commute with bikes, by some sort of reward system.

Active modes of transport vs Passive (walking vs biking)

Machine learning to distinguish between vehicles

Overall aim to use

Main Scope: Investigation in app development, deployment ease (think about what phones will have the available sensory capabilities)

Using sensor data to track users daily route to determine what vehicle type they are using using machine learning.

| Name |  |  |  |  |  |  |  |
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**Structure**

Research topic

Background and justification

Aims and objectives

Methodology\*

Timetable

Reference

<https://www.lakeheadu.ca/sites/default/files/uploads/56/GraduateMScResearchProposalTemplate.pdf>

11/08 Meeting

Data stored locally but still need upload to remote server

Collected and store somewhere

Make sure data is compatible

Fitting model to exist data set to see

Next 2week goal:

Code running

Star recording data

Frequency check point

Research on sensor

Connect phone with PC interact

Collect data as much a possible

Classification

More research into data stream [capture some data