

## **Smart Transport Mission Statement**

Smart transportation is an application that shows the user his/her carbon emissions for a car trip. The core purpose of the app is to enable the user to become more aware of the carbon footprint produced by his/her daily commute. It is estimated that a single passenger produces up to 4.7 metric tons of  $CO_2$  emission per year, which is detrimental to the environment and threatens its long term sustainability. By illustrating to the user his/her daily contribution to the net carbon emissions produced per year, the team aims to bring more awareness to this issue and hopes to encourage the user to consider more eco-friendly means of transportation.

The application includes several different features that make it usable for a more universal audience. The application interface starts off by showing the traffic conditions in the city of Toronto and subsequently provides the user with a widget to plan his/her trip. The widget shows the user the travel distance from his/her initial destination to final destination. Consequently by visualizing the traffic layer the user can also examine the traffic conditions along the planned route.

By accessing a car model widget the user can further determine the fuel required for the trip, by initially determining the fuel economy of their respective car model. The widget includes car models from year 2000 to year 2017. Using the estimated fuel economy the user can then proceed to the Carbon Footprint calculator widget which allows the user to estimate his/her carbon footprint for the planned trip. Through awareness of their carbon footprint, the user can then consider alternate means of transportation or in general become more considerate towards their daily usage of vehicles with high carbon emissions.