**Team SL**

**Members:** Sian and Lagat

**Overview:**

Without proper knowledge of the area, taking a tricycle can become quite challenging. Taking a tricycle requires that you know the route that the tricycle is taking, as well as considering your current location to get to where you need to get to. This can become very difficult and inconvenient, especially for those who are in a hurry to get to their destination.

Thus, we propose **TriSakay**, a tricycle riding app that not only shows you available tricycles in the area, but also the routes that they take to see if the user’s destination is passed by the tricycle rider. Knowing that tricycle riders usually operate within one subdivision, the app will segregate each available area to provide a much simpler and more convenient interface for people to use, so that when they look at the map that will be integrated with the app, users will not be confused as to where they are currently.

**Characteristics of the Users:**

The primary users of TriSakay will be individuals who are looking for tricycle riders in their area to get a ride with. The secondary users of TriSakay will be tricycle riders themselves, as they may use the app to register their routes and check if there are any users nearby who are looking for a ride.

**Task Analysis:**

**Important Characteristics of the Task Performed by Users:**

A user must be able to do the following with the system:

* View available tricycle riders in their area
* View individual route of riders
* Send notifications to riders using the app for any potential passengers
* Identify the subdivision/area they are in for improved usage

**Important Characteristics of the Task Environment:**

* Count available riders in a given area
* Track potential passengers in said area
* List all routes that could be taken

**Task Analysis of the Problem:**

**Task:** Provide both passengers and riders an interactive platform for better commuting

* **Subtask 1:** Passengers are able to view both available riders and available routes
* Get location of passenger
* Show available routes
* Show available riders
* Send notification to riders for pickup
* **Subtask 2:** Riders receive notifications for potential passengers in the area
* View potential passengers in the area
* Receive notifications for any passengers in the area that are looking for a ride

**Analysis of Existing System:**

Two existing systems that are similar to TriSakay are Angkas and Sakay.ph. An analysis of each system are as follows:

**Angkas:**

* Motorcycle taxi and delivery service
* Book for rides, like Uber
* Limited to Metro Manila

**Sakay.ph:**

* Check routes for Jeepney, Bus, or Trains
* Provides route directions, like Waze
* Limited to Metro Manila

**TriSakay:**

* Check routes for Tricycles in current location
* Notify tricycles in area for passengers
* Limited to Davao City

**Larger Social and Technical System:**

TriSakay aims to improve commuting on the smaller scale for tricycles by allowing passenger a more convenient experience by knowing which routes they should take while at the same time allowing tricycle riders to more easily determine which passengers to take. The main goal of Trisakay is to help establish a more convenient medium for unfamiliar passengers to be able to properly navigate through riding in tricycles while aiding tricycle riders as well by providing them the means to more easily identify potential passengers so that they do not mistake people who are simply on the side of the road as potential passengers.

**Usability Criteria:**

1. **Efficiency**

* This pertains to the overall stability of the app as well as its convenience to use by ensuring minimal lag and a seamless experience for users

1. **Navigation**

* This pertains to the app’s experience with the user interface (UI) being simple and easy to use, allowing users to easily find any features they may need to access

1. **Accessibility**

* This pertains to the overall usage of the app and being able to access the app at all times, whether via Wi-Fi or Mobile Data

1. **Availability**

* This pertains to the overall practicality of the app being usable at all appropriate time periods that tricycle riders are active

**Overall Implications:**

Overall, TriSakay aims to provide a more convenient experience overall for both tricycle passengers and riders, especially for those who are unfamiliar with navigating with tricycles, or riders who struggle to find any passengers that may require their services. Since apps pertaining to taxi services already exist, as well as some that pertain to jeepney services, filling in the niche for tricycle riders will allow everyone to have a much more lax and undaunting commuting experience.