**CHAPTER 1**

**Overview of the Current State of Technology**

Ma.Evenia Van Services is family owned business that conducts human transport from the bus terminal of Ozamiz City to the province of Ma. Evenia (and other provinces within the premises of the route). Just like every other van service in Ozamiz, Ma. Evenia does not use any device to conduct records of its data. Manually, conductors hoard the lot of people that travel through the route and the conductor is responsible for collecting the fair for the trip. After the van is full (or it’s reached its limit of standby in the terminal) it would then proceed to its destination. (The maximum number of passengers that a van can cater varies from 14-18 people) Not even like taxis where they have digital meters to measure the distance travelled by the cab, the van service does not own/use any type of technology to assist’s its transaction or monitor its distance travelled. Due to this, some inconveniences may occur when; new passengers like tourists or seniors could not track where there drop of point is or could be. Conductors could lie about the right payment because they know these people like tourists or seniors have no idea of the right payment. There are some passengers that want to monitor the route to their destination and their current location.

As a solution, the researchers have come up with an idea of a van booking system that has a map feature that shows the user his/her exact location and current route. To even further satisfy the user, the application has a feature that shows how much the trip will cost so he/she no longer has to worry if he/she is paying the right amount for the trip. For added safety and security, the app also possesses information about the driver, the van’s plate number and the company’s basic information.

**Research Objectives**

The study aims to:

* Give the passenger the necessary information like the van’s plate number and the driver’s personal information.
* Allow the passenger to monitor his/her current location and the current route taken by the van.
* Pin point the passengers designated drop off point.
* Present the passenger with the exact amount he/she has to pay for the trip.

**General Objectives**

In general, the android application aims to guide the passenger of his/her whereabouts to prevent any security lapses. The android application also seeks to promote honesty and modesty towards the payment and dropping off point of each passenger. With the applications map feature, the passenger can assure his/her safety towards reaching and arriving at his/her designated drop off point while also being able to know the places they’ve passed by.

**Specific Objectives**

**It specifically aims to:**

1. To secure the passenger pays the right amount
2. To track the passengers route and current location
3. Provide the passenger with the van’s and the driver’s basic information

**Scope and Limitation**

The study focuses only on the concern of public transportation for passengers of the Ma.Evenia van service. The study is not responsible for driver’s way of gathering more passengers (or lesser) in every trip down the route. The application does not also give off extra information beyond what the route presents neither will it give off any more information about the van and the driver than the data presented.

**Significance of the Research**

This research study is beneficial to the following:

**Passengers of Ma.Evenia van services:** Passengers can now experience the leisure of knowing where they’re going and where they currently are. They will have access to the driver’s and the van’s information. All of which, within their android phones or tablets.

**Tourist and first time passengers:** With the growth of tourism, the van service cannot avoid having new passenger like tourist and first time passengers. With the help of this application, they no longer have to question the company and its members because the application can present them with the data and necessary information for their safety and security.

**Future Researchers:** The study is open to changes and modifications. So as to benefit future researchers, they have the freedom to change, modify or upgrade the said application to even furnish the idea of the study. This study is still an open door so future researchers can use this study for their own thesis application.

**Operational Definition of Terms**

**Conductor’s:** people responsible for collecting the fee for the trip. Are often members of the company or just people around premises. Get a little extra income depending on their agreement with the driver.

**Android Application:** a software application running on the Android platform. Because the Android platform is built for mobile devices, a typical Android app is designed for a smartphone or a tablet PC running on the Android OS.

**Leisure:** opportunity afforded by free time to do something.

**Modify:** make partial or minor changes to (something), typically so as to improve it or to make it less extreme.

**Route:** a way or course taken in getting from a starting point to a destination.

**Ma.Evenia:** Ma. Evenia or Maria Evenia is a province in Mindanao (travelled within the same route going to Pagadian City)