**Chapter 1**

**INTRODUCTION AND BACKGROUND OF THE STUDY**

**Overview of the Current State of Technology**

Ma.Evenia Van Services is a family owned business that conducts human transport from the bus terminal of Ozamiz City to the places that Ma. Evenia serves (and other provinces within the premises of the route). Just like every other van services in Ozamiz, Ma. Evenia does not use any device to conduct records of its data. Manually, conductors hoard a lot of people who travel through the route and the conductor is responsible for collecting the fair for the trip. After the van is full (or when it reached its time 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 (tourists) could not track where there drop off point is. Conductors could be inconsistent of amount due because they know these people (tourists) have no idea of the real amount. There are some passengers who would want to monitor the route of their destination and their current location.

As a solution, the researchers come up with an idea of a van booking system that has map features that show 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 contains information about the driver, the van’s plate number and the company’s basic information.

**Research Objectives**

**General Objectives**

In general, the research aims to provide a guide for the passenger as to how travelling via van works. The research also seeks to make commuting via van easier and safer.

**Specific Objectives**

The study aims to:

* Identify the necessary information like the van’s plate number and the driver’s personal information;
* Identify the passengers designated drop off point;
* Identify the exact amount a passenger has to pay for the trip to avoid false payments;
* Improve security awareness among each individual; and
* Design and develop an Android Based Passengers’ Monitor;

**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 other 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 are within their android phones or tablets.

**Tourist and first-time passengers:** With the growth of tourism, the van service cannot avoid having new passengers like tourists 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 to future researchers would want to use this study for their own thesis application.

**Operational Definition of Terms**

**Conductors** These are people responsible for collecting the fee for the trip. They are often members of the company or just people around premises. They get a little extra income depending on their agreement with the driver.

**Android Application** It is 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** It is an opportunity afforded by free time to do something.

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

**Route** It isa 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)