



Republic of the Philippines

PALAWAN STATE UNIVERSITY

College of Sciences

Puerto Princesa City

“**S.A.S.A: SAFETY ALARM SECURITY APPLICATION** **IN PUERTO PRINCESA CITY”**

**A Capstone Project**

**Presented to the Faculty of**

**Computer Studies Department,**

**Palawan State University**

**In Partial Fulfillment of the Requirements**

**for the Degree of Bachelor of Science in Information Technology**

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**TABLE OF CONTENTS**

**1.**

**CHAPTER I**

1.1. Introduction…………………………………………………………………………………3

1.2. Project Context…………………………………………………………………………………......3

1.3. Purpose and Description.. *……………………………………………………………………...................4*

1.4. Objectives………………………………………………………………..………………….4

1.5. Scope and Limitation……………………………………………………………………………………4-5

**2. CHAPTER II**

2.1 Review of Related Literature/Systems*……………………………………………………………………*

………6-9

**3.CHAPTER III**

3.1 Technical Background………………………………………………………………………….…

**4.CHAPTER IV**

* 1. Methodology…………………………………………………………………………
  2. Design of the Software and Process……………………………………………………………….

**5.CHAPTER V**

* 1. Results and Discussions…………………………………………………………………..…….…
  2. References………………………………………………………………………………….…………
  3. Appendices…………………………………………………………………………….…………
  4. Curriculum Vitae………………………………………………………………………………..

**Chapter I**

**Introduction**

The increasing use of apps over the past few decades has seen the rise of information technology to a pervasive position in human jobs. According to Oza (2017), "All this information is stored on our phone, which helps us plan our lives and facilitates proper time management. Alarms, reminders, to-do lists, everything. Life is more comfortable, easier and more productive, thanks to a number of apps that can be programmed to suit your individual needs and requirements, such as the type of notification app. Individual-specific difficulties arose from a variety of scenarios. Therefore, the cause may be the difficulty of living, such as poverty, or the amount of work that needs to be accomplished over a period of time. As a result, they tend to go home late or at night shifts. We are aware of the dangers of the night because we are aware of the news that one accident or people are committing atrocities against others. This certainty concludes that notifying someone's condition is a step towards increasing the chances of success, whether you are safe or not. This is how S.A.S.A., the safety alarm security app was born. It's the perfect application to show some degree of human safety, even when you're near your home, or to sound an alarm when you're tired while driving.

**Project Context**

This application implies the individual problem when coming home. This people had night shift or overtime during the need of money or it was demand of their superior. They tend to get depressed and a higher rate of anxiety because of their danger awareness. After all, people distrust other people. Another case is that because of overwork, fatigue and tiredness is taking effect on a person’s mind, and because others were taking a ride or had a vehicle, they were too sleepy and might fall asleep.

With this, the benefit of S.A.S.A is its repetitive notification and alarm, signaling a person of its near destination to their home or other places.

In our modern era, people are more receptive to technology with their lives. We are becoming highly dependent and cannot live without it. So, entrusting their safety to a certain application is preferably approvable and appealing, it is because humans become distrustful to others as they are aware that humans have a will on its own and can make other choices if they want to.

**Purposes**

Here are the lists of the purpose of creating this specific application.

1. The purpose of this app is to help the people who're working on a night shift, getting off to work late. S.A.S.A is an app for safety.
2. To protect the users from harm while driving late, or to make home safely.
3. This app is a locator to make sure that the individuals are getting home safe.
4. This app will warn the user if he/she’s near to the location of his/her home.
5. It warns the users if they’re at home or not.

**Description**

Safety Alarm Security Application (S.A.S.A), is an app that will help people when it comes to their own safety, the use of this app is to notify the individual who is often going home late and will notify the user when he/she’s at home or nearly at home. In addition, the app will make the user more aware of driving, or being around their house’s radar for them to know if they’re near or out of radar. This is for the safety of the one who has night shifts at work or people who work late.

**Objectives**

This project aims to help the night shift workers in terms of security and awareness about their destination when they are going home after work. Falling asleep while driving or commuting is not a new case, especially if the actor is from intense activities during work hours. In fact, a survey from New Zealand stated that one out of three nurses fell asleep while driving home from work (Hello Care, 2019). This is the reason why we want to develop this project; we want to create an application that will alarm if the night shift workers were already at their destination and it will also alarm if the route changed, for their safety because it is very dangerous if their companions take advantage while they are sleeping, especially for the women.

**General Objective**

This is the reason why we want to develop this project; we want to create an application that will alarm if the night shift workers were already at their destination and it will also alarm if the route changed, for their safety because it is very dangerous if their companions take advantage while they are sleeping, especially for the women.

**Specific Objective**

**1.**

**2.**

**3.**

**Conceptual Framework**

INPUT

I. Profile of user:

• Name

• Email

• Password

• Age

• Work

•Address

•Contact Person in case of emergency

•Name of the contact person

II. Setup

•Arrival location

•Alarm

- Music alarm

-Time range

•Medium of transportation

•Plate Number

•Message (When the driver takes an unregistered route)

-Contact Person

-Current Location

Output

•Sent message to the contact person in case of emergency

•Trigger the alarm when the arrival location of the user is nearby.

Process

•The data from the user will be processed to validate his/her identity

• Input data from the setup will be analyzed by the system and perform a certain action if the trigger is activated.

Figure 1. Conceptual Framework

This conceptual framework shows the input, process, and output. The researchers include the profile of respondents such as sex, work, and age as an input, because these factors might have an effect why the night shift workers fall asleep while on the road. For the process, the researchers will gather the data from the said workers through questionnaire, and will analysis the gathered data to provide a concrete information for the development of mobile application, and it will serve as an output. A mobile application that will alarm when the user was already near to the arrival location, which is based on the user’s set up.