

Asia Pacific College

School of Computing and Information Technologies

Dash-R-Come

In Partial Fulfillment of the Requirements for the Subject Applied
Project for IT-MI

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ASIA PACIFIC COLLEGE

Approval Sheet

Dash-R-Come

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Bachelor of Science in Information Technology

Examined and Recommended for Acceptance and Approval for Research/Capstone Presentation

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Table of Contents

Executive Summary	
Chapter 1 Introduction	2
1.0 Introduction	2
1.1 Project Context	
1.2 Purpose and Description	3
1.3 Objectives	3
1.4 Scope and Limitations	3
Chapter II Review of Related Systems	4
2.0 Review of Related System	4
Chapter III Technical Background	6
3.1 Software Development Requirements	6
3.2 Hardware Requirements for Users	7
3.3 Programming Language Needed to Apply	
Chapter IV Methodology, Results, and Discussion	8
4.1 Requirements Analysis	8
4.1.1 Conceptual Framework	8
4.1.2 Data Flow Diagram	8
4.1.2.1 Context Diagram	8
4.1.2.2 Diagram 0	9
4.1.2.3 Functional Decomposition Diagram	9
4.1.3 Database (UID / User ID String)	10
4.1.4 Class Diagram	10
4.1.5 Object Diagram	11
4.1.6 Composite Diagram	11
4.1.7 Activity Diagram	12
4.1.8 Sequence Diagram	13
4.1.9 Deployment Diagram	14
4.1.10 Communication Diagram	15
4.1.11 Timing Diagram	
4.1.12 Component Diagram	
4.1.13 Package Diagram	17
4.1.14 State Diagram	17
4.1.15 Interaction Overview Diagram	
4.2 Requirement Documentation	21
4.2.1 Use Case Diagram	
4.2.2 Use Case Narrative Report	22
4.3 Gap Analysis	
4.4 Design of Software, Systems, Product, and /or Process	
4.5 Development and Testing, where applicable	40
Chapter V Conclusion and Recommendations	
Chapter VI Appendices	
6.0 Appendices	42

6.1 Relevant Source Code	42
6.2 Evaluation Tool or Test Documents4	43
6.3 Sample Input/Output/Reports	58
6.4 Users Guide	59
6.5 Curriculum Vitae6.	60
6.6 Screen Layouts6	64
6.7 Pictures showcasing the data gathering, investigation donedone	64

List of Figures, List of Tables, List of Notations

Figure 4.1.2 Data Flow Diagram	8
Figure 4.1.2.1 Context Diagram	
Figure 4.1.2.2 Diagram 0	
Figure 4.1.2.3 Functional Decomposition Diagram	S
Figure 4.1.3 Database (UID / User ID String)	10
Figure 4.1.4 Class Diagram	10
Figure 4.1.5 Object Diagram	11
Figure 4.1.6 Composite Diagram	12
Figure 4.1.7 Activity Diagram	12
Figure 4.1.8 Sequence Diagram	13
Figure 4.1.9 Deployment Diagram	14
Figure 4.1.10 Communication Diagram	15
Figure 4.1.11 Timing Diagram	16
Figure 4.1.12 Component Diagram	16
Figure 4.1.13 Package Diagram	17
Figure 4.1.14 State Diagram	17
Figure 4.1.15 Interaction Overview Diagram	18
Figure 4.2 Requirement Documentation	21
Figure 4.2.1 Use Case Diagram	21
Figure 4.2.2 Use Case Narrative Report	22
Figure 4.2.1 Use Case Diagram	21
Figure 4.2.2 Use Case Narrative Report	22
Table 4.4 Design of Software, Systems, Product, and /or Process	36
Table 6.3 Sample Input/Output/Reports	58

Executive Summary

The proposed project is an incident reporting system. The team aims to develop a system that could help not just Barangay Magallanes, but also other Government Agencies such as the Philippine National Police (PNP) and Bureau of Fire Protection (BFP) expand their services in terms of receiving incident reports or complaints and to reduce the fake incident report cases.

On January 2018, the group conducted an interview with Mr. Jesus Sumandal, one of the Desk Officers of Barangay Magallanes, the group asked about what is the current way or the process of the Barangay in receiving incident reports. Mr. Sumandal said that they entertain incident reports through their Hotline or walk-in. The problem with receiving incident reports through their Hotline is that they could not verify if the incident really occurred. He added that most of the incident report that they receive are prank or fake reports.

They wanted to solve this issue because it costs them manpower, gasoline, time and effort. The team found the said problem as an opportunity to improve or innovate. Using the Incident Reporting System, Barangay Magallanes and other Government Agencies will be able to verify an incident report by the time they received an incident report, the incident report is sent through an android device and forwarded to the web server, together with the incident report details such as time, date, and location.

Chapter I Introduction

1.0 Introduction

1.1 Project Context

Makati is a city in the Philippines' Metro Manila region and the country's financial hub. It is known for the skyscrapers and shopping malls of the Makati Central Business District, and for Ayala Triangle Gardens, an area dotted with trees and sculptures. The proposed project is an Incident Management System that is designed Government Agencies and Local Government Units, specifically for now, Barangay Magallanes.

On January 2018, the team conducted an interview with Colonel Candido Ruiz, Head of the Barangay Hall Security and to Mr. Jesus Sumandal, one of the 3 Desk Officers of Barangay Magallanes. Both of them mentioned a same issue or problem that Barangay Magallanes and other Government Agencies or Local Government Units encounter, they added that Barangay Magallanes employees are not technology specialist people, so the group explained everything about the project.

According to Colonel Ruiz, their Barangay has all the equipment needed for the project implementation such as Desktop Computers, Internet connection and the people who are going to manipulate the system. During the interview, the group asked if Barangay Magallanes have an existing system, Mr. Sumandal said that they are using a database where they encode and store the incident reports.

Mr. Jesus Sumandal added one of the Desk Officers of Barangay Magallanes, said that one problem that needs to be solved or taken action are the prank callers. Mr. Sumandal mentioned that they are being bothered by the prank callers because, once they receive a report, they send troops to the reported incident area to verify the report.

In the group's proposed system, it is the other way around. The Government Agencies or Local Government Units can verify the incident if it really occurred by the time they receive the incident report using the video or picture that was uploaded by the user. The group aims to develop a system that could help not just Barangay Magallanes, but also other Government Agencies such as Philippine National Police (PNP), Bureau of Fire Protection (BFP) to reduce receiving false or prank reports. The proposed project allows the user to send a detailed incident report to the Barangay Magallanes by providing a video footage of an incident with specific details such as the type of incident, location, and time. The Barangay is responsible for verifying the incident report. Once the report is verified, if the incident is not covered by their jurisdiction, they will call the nearest concerned agency.

1.2 Purpose and Description

The Incident Reporting System uses an online database to store incident reports like videos, pictures from the user. It is a mobile application that can be used to report accidents, crime, and fire incidents. Using the mobile application, the user can send a picture or video footage of an incident to the Barangay Magallanes. The video footage needs to be verified by the Barangay Magallanes employee, if the incident is within the Barangay's Jurisdiction, then they are the ones to respond, if not, they will call the nearest concerned agency.

The purpose of the project is to provide the client a system that could help them get a real and detailed incident reports using the mobile application. Also, to provide the client an updated record of incidents that could be used in crime statistics purposes.

1.3 Objectives

- To provide the client a detailed incident report from the users with the use of the mobile application.
- To help the Barangay and other Government Agencies reduce the fake incident reporting cases with the use of the mobile application and web server.
- To provide evidence or supporting details when reporting an incident to the client.

1.4 Scope and Limitations

- Internet Connection
- The Barangay Magallanes will be covered by the project.
- Barangay personnel are allowed to respond if the incident is covered by their jurisdiction
- If the incident happens to be far or not covered by the Barangay's jurisdiction, then the Barangay shall call the nearest concerned agency.
- If the user does not have an internet connection or data connection, then the user cannot use the mobile application.
- The mobile application requires internet connection or mobile data to be used.
- The target users of the mobile application are the following; motorists, bystanders, constituents, android device users.
- The user must have a picture or video footage of an incident.
- The user can use the dashboard camera or android device in filming an incident
- If the user used a dashboard camera, the user has to transfer the video from the dashboard camera to the android device through the Bluetooth feature or transferring the dashboard cameras' SD card to the android device.
- The mobile application has 4 main features which are the following. Video Recorder, Video Trimmer, List of Hotlines and Video Cutter.

Chapter II Review of Related Systems

2.0 Review of Related Literature or Systems

2.1 iWrecked - Nobody would want to get involved in an accident, but, a fact that accidents do occur every single day remains. If you are ever caught in an accident, you would want an application such as iWrecked, to key in and keep a history of the complete relevant details, preview and send accident reports, and look for towing services.

JohnnyJet (2017, August) Retrieved from https://www.johnnyjet.com/travel-app-of-the-week-iwrecked

2.2 Spotted Incident Reporter - Spotted incident reporter application is a local crime track, report and information on stolen cars and accidents. Spotted incident reporter application is a local crime track, report and information on stolen cars and accidents. For example, a car was stolen 6 minutes ago, you had the power to fight back to the thieves who stolen the car by posting the incident in the app, including the pictures of the stolen property or car.

APKfilez (2017, August) Retrieved from https://apkfilez.pw/io-applickable-spotted-apk/

2.3 Incident Reporter - Incident reporter is an online cloud-based that is available anywhere. By using this application, you can communicate and document incidents. The features of this. The application is using a global positioning system, customizable interface, past report of the user can easily retrieve, and it uses SMS. Our application can find you. The nearest local government unit by our artificial intelligence system, it would require enabling your GPS in your device. It also lets the user to be notified upon the uploaded incident video report when it reaches to the agency. You must also have a data or an internet connection to use the application to find the nearest local government unit.

Technolgy APKpure (2017, August) Retrieved from https://apkpure.com/incident-reporter/com.magikminds.marbles.plugins.incidentreporte

2.4 Incident Reporter - Used by healthcare, security firms, education, business, non-profit organizations and government. It has a web based and mobile application that deploy on the Microsoft Azure cloud. The application offers live incident reports and notifications that allow you to monitor issues in real time. Build trust among your team members. It has a free trial but after the trial the pay version of the application will charge to the business or individuals.

Microsoft Store (April, 2018) Retrieved from https://appsource.microsoft.com/en-us/product/web-apps/emappetizer.291b60c4-dc1c-4879-888a-063f586c1d46?tab=Overview 2.5 Incident Management - one of the key pillars of achievement and ensuring a clean an environment. It allows the public to report acts of violations of environmental law.

Google Play Store (January 2018) Retrieved from

https://play.google.com/store/apps/details?id=ke.co.gravity.nema&hl=en

Chapter III Technical Background

3.0 Technical Background

This chapter shows the software and hardware needed for the system development and implementation.

3.1 Software Development Requirements:

3.1.1 Android Studio

-Built based on JetBrains' IntelliJ IDEA software and designed specifically for Android application development. It is developed by Google that is based on the Linux kernel which are similarly deployed on a traditional computer system.

Firebase Database

-Firebase Real time database is a cloud hosted database that supports multiple platforms, Android, iOS and Web. All the data are stored in JSON format and any changes in data, reflects immediately by performing a sync across all the platforms & devices. This allows us to build more flexible real-time apps easily with minimal effort.

Firebase Authentication

-It aims to make building secure authentication systems easy. It also provides end-to-end identity solution, supporting Gmail, Github and Facebook.

Firebase Cloud

-is a powerful, simple, and cost-effective object storage service built for Google scale. The Firebase SDKs for Cloud Storage add Google security to file uploads and downloads for your Firebase apps, regardless of network quality.

3.2 Hardware Requirements for Users:

- Operating system runs at least Android Lollipop or higher version.
- ·At least 1GB RAM or higher
- 4 "screen or longer
- ·1500 mAh battery or higher
- Android devices A handheld device that will be used by the motorist to upload the video or picture that was captured from the dash camera.
- Computer A device that acknowledges data and controls it for some outcome based on the program or set of instructions on how the information is to be handled.
- WiFi / Router To be used on different purposes such as data transmission and wireless communication.

3.3 Programming Language Needed to Apply:

3.3.1 Java

-is the innovation of decision for building applications utilizing structured codes that can be executed on cell phones and this is what the group will mainly use for developing the mobile application that will serve as the interface between the user and the system. In addition to, it is a general-purpose computer programming language and has been in existence for over 2 decades.

3.3.2 NoSQL

-a mechanism for storage and retrieval of data that is modeled in means other than tabular relations used in relational database. A wide variety of different database technologies that were developed in response to the demands presented in building modern applications.

Chapter IV

Methodology, Results, and Discussion

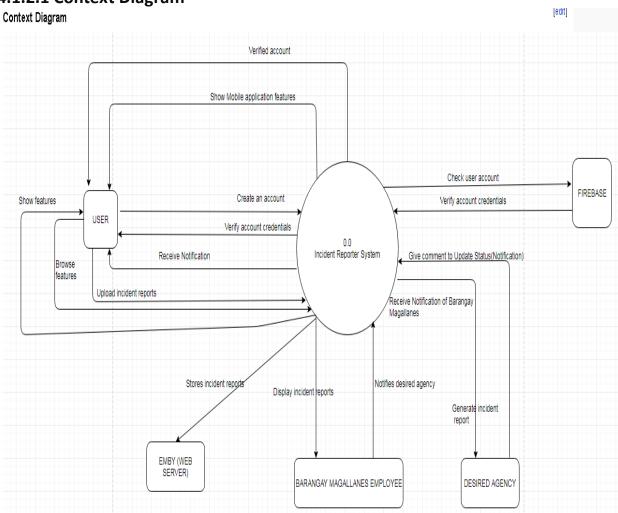
4.1 Requirements Analysis

The group aims to develop a mobile application for Incident Reporting System. The user must register to the mobile application to have a verified account. To register, the user can either link his or her Gmail account (Google Account) or create a new account.

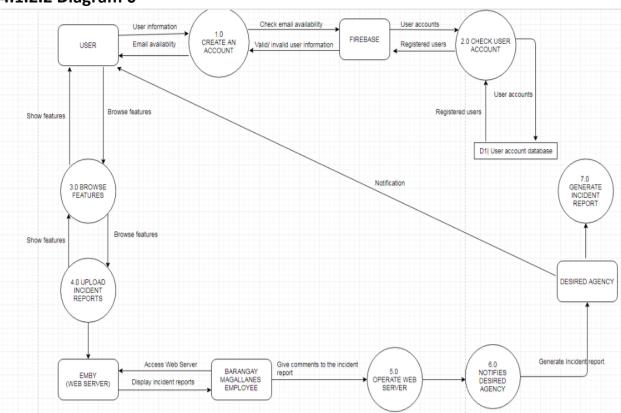
4.1.1 Conceptual Framework

4.1.2 Data Flow Diagram

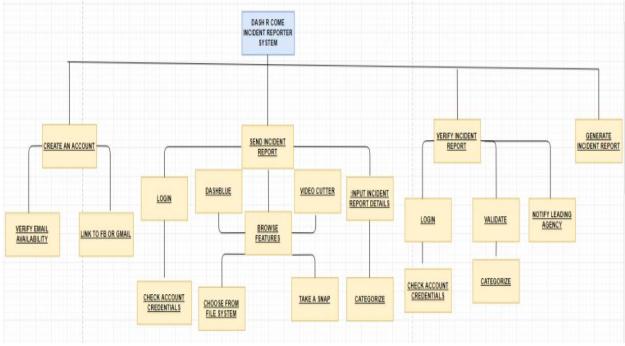
4.1.2.1 Context Diagram



4.1.2.2 Diagram 0



4.1.2.3 Functional Decomposition Diagram



4.1.3 Database (UID / User ID String)

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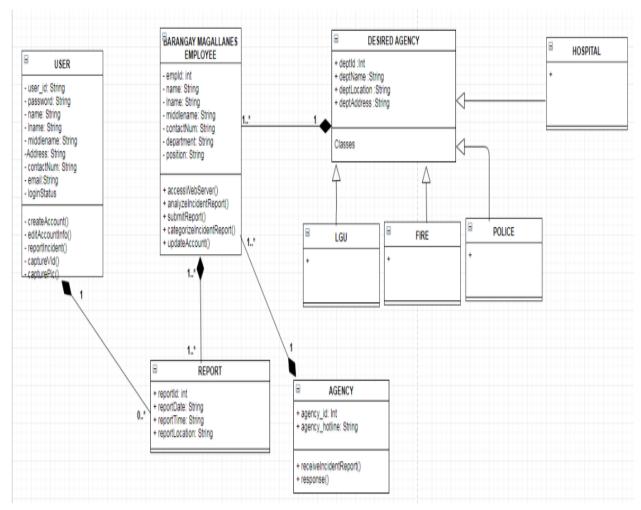
--- Email: "harligop@gmail.com

- First Name: "Harl'

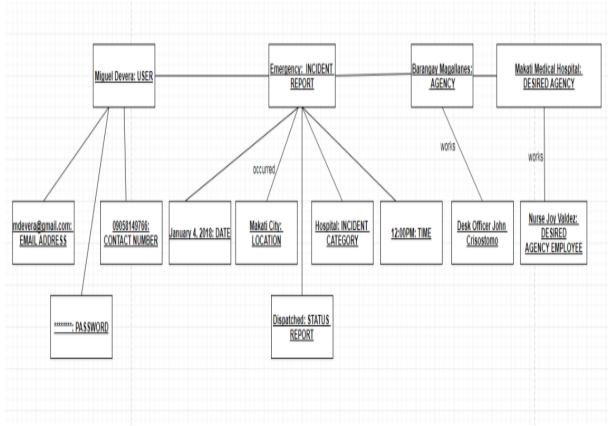
-- Last Name: "Evangelista -- Password: "value@test

-- Phone Number: "09193918291

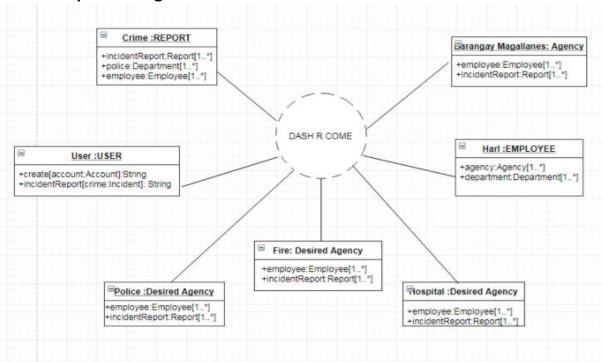
4.1.4 Class Diagram



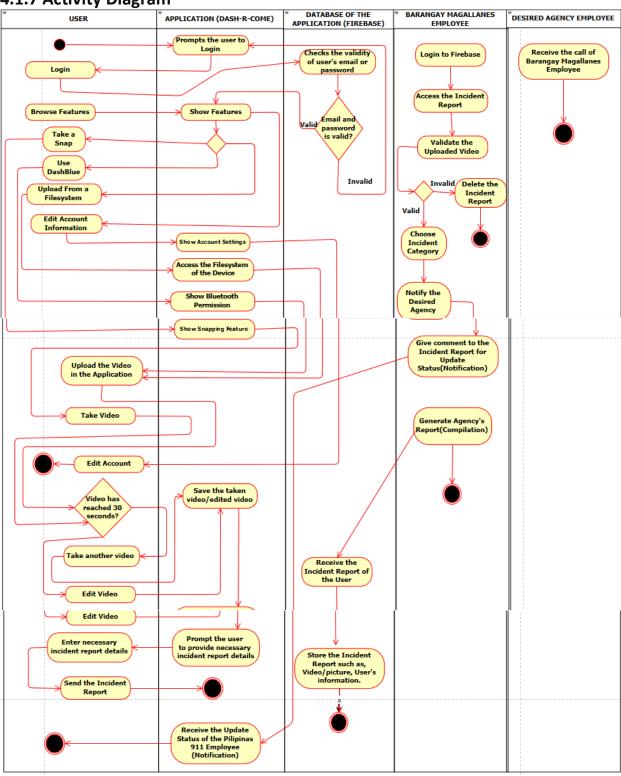
4.1.5 Object Diagram



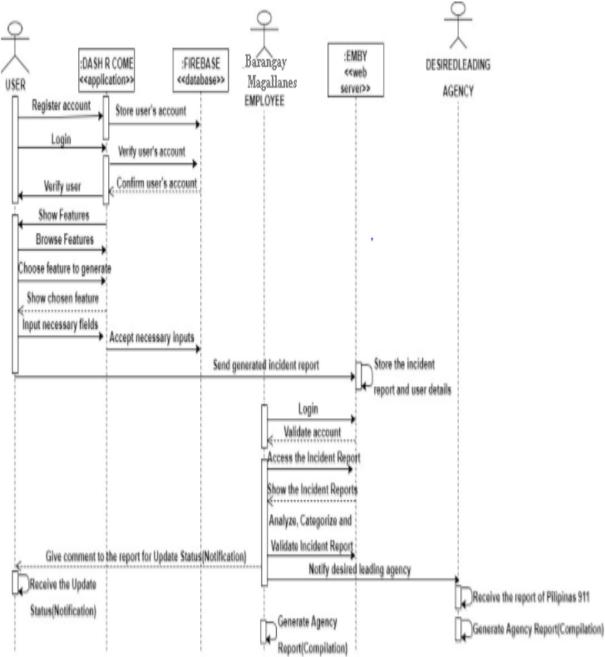
4.1.6 Composite Diagram



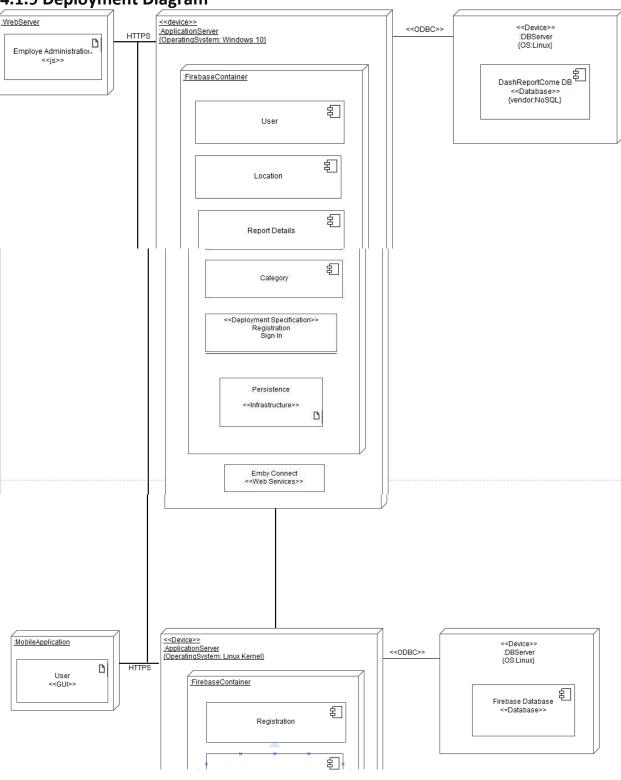
4.1.7 Activity Diagram

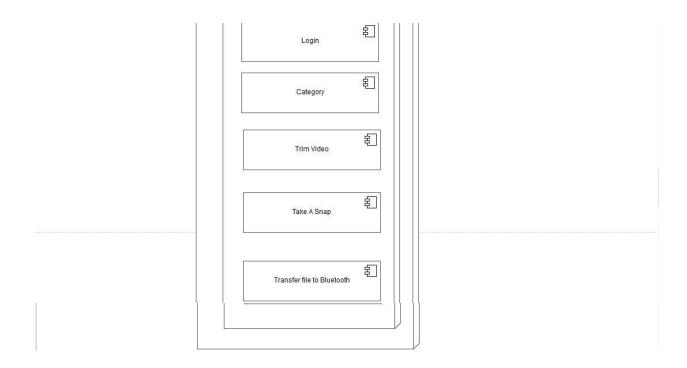


4.1.8 Sequence Diagram

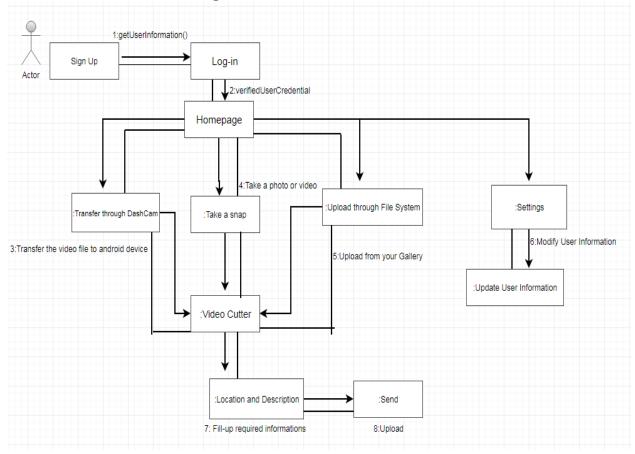


4.1.9 Deployment Diagram

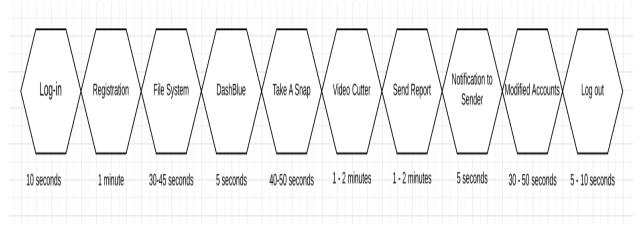




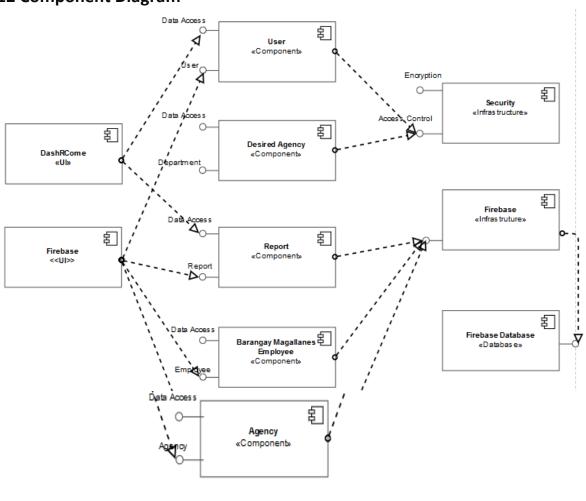
4.1.10 Communication Diagram



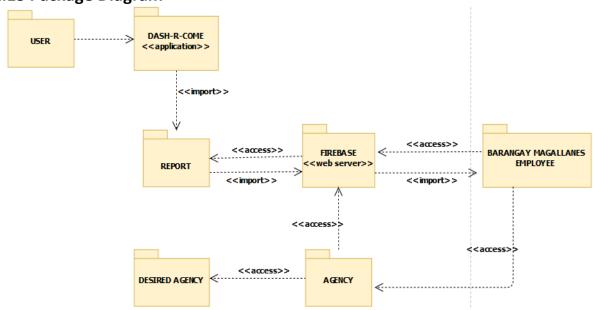
4.1.11 Timing Diagram



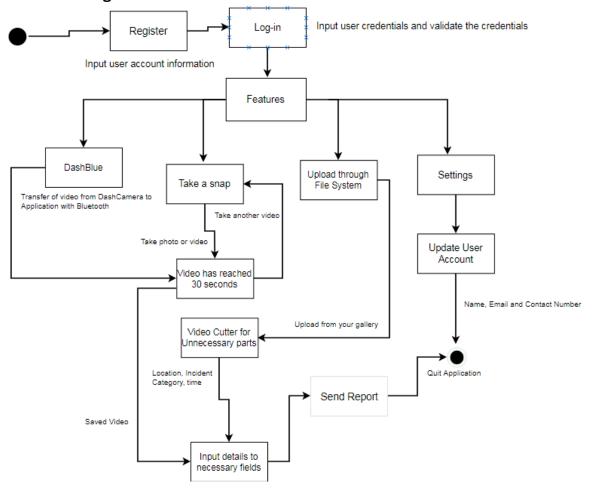
4.1.12 Component Diagram



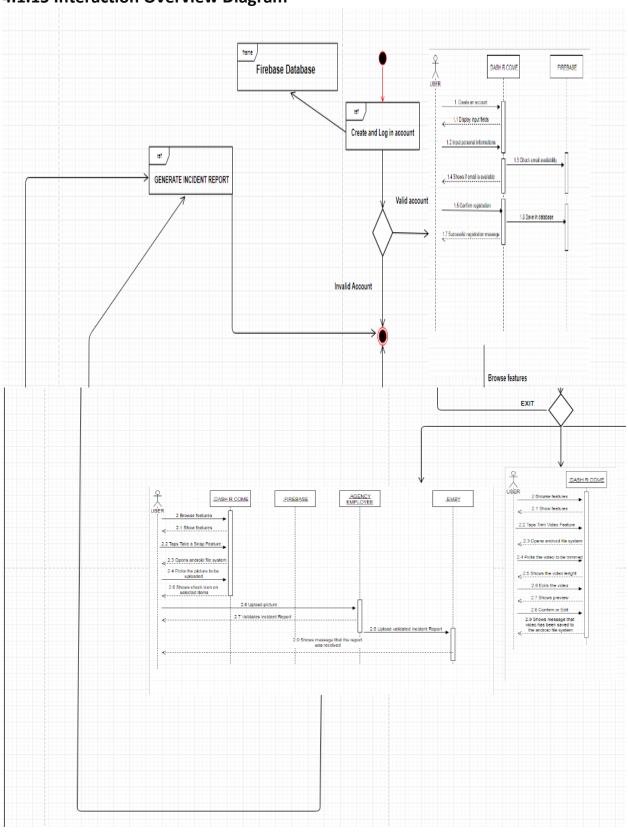
4.1.13 Package Diagram

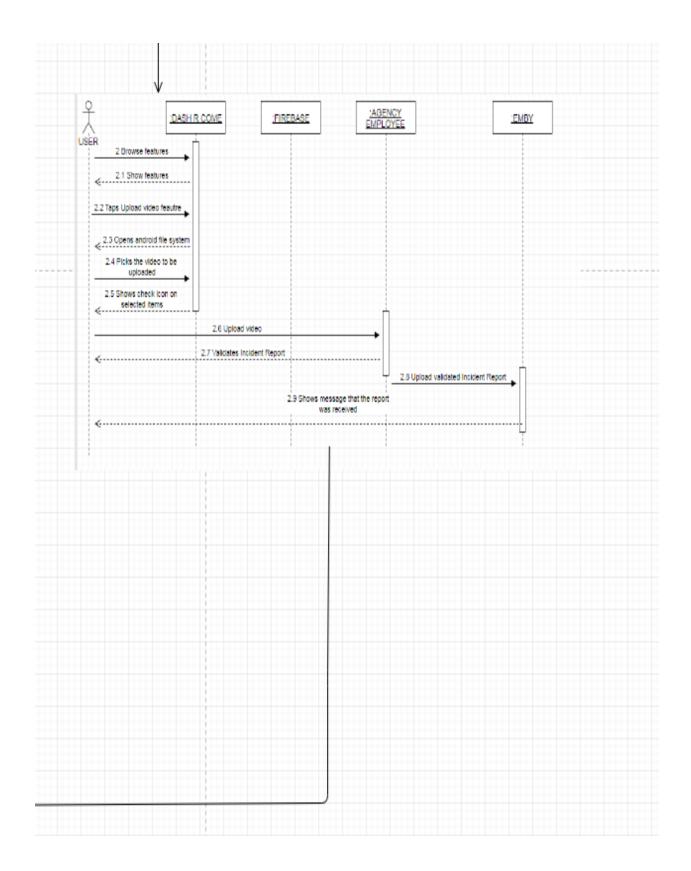


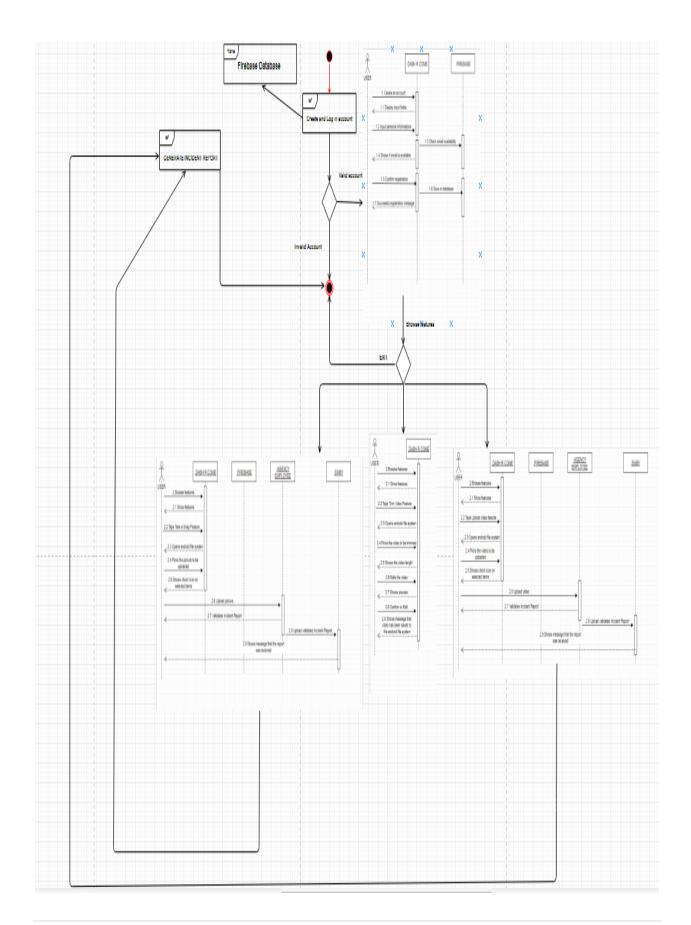
4.1.14 State Diagram



4.1.15 Interaction Overview Diagram

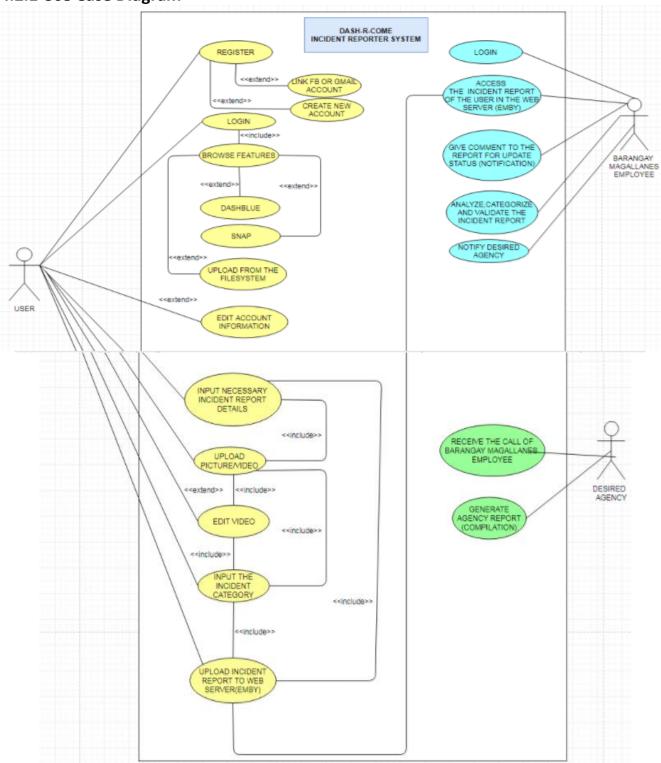






4.2 Requirements Documentation

4.2.1 Use Case Diagram



4.2.2 Use Case Narrative Report

Use Case Name:	Create an account
Scenario:	User wants to create an account
Triggering Event:	Registration
Brief Description:	User wants to create an account to use the mobile application.
Actors:	User
Related Use Case:	Browse features, edit account information, edit video, upload incident report to google drive.
Stakeholders:	User
Preconditions:	 The user must install the mobile application to his or her android device. The user must register to the system. The user must have internet access to use the system.
Postconditions:	The system will store the data entered by the user to the firebase database.

Flow of Activities:	Actor	System
	 The user connects to Wi-Fi or Data connection. The user opens the mobile application. The user taps the Create an account button. The user fills up the required fields. The user submits the registration form. 	1.1 The system displays an error message if the user does not have internet connectivity. 2.1 The system displays the create account page 3.1 The system verifies if the entered information is available 4.1 The system displays a successful message if the user has successfully registered to the system.
Exception Conditions:	The user must install the mobile a android device. The user must be registered The user must have internet conn	

Use Case Name:	Browse Features
Scenario:	The user wants to try the mobile application features
Triggering Event:	The user is a new user
Brief Description:	The user is not familiar with the mobile application, so he or she wants to try the features.
Actors:	User
Related Use Case:	Create an account, Upload from the file system, edit account information, edit video, Upload Incident Report.
Stakeholders:	User
Preconditions:	 The user must install the mobile application to his or her android device. The user must register to the system. The user must have internet access to use the system.
Postconditions:	The user must be able to view and browse the features.

Flow of Activities:	Actor	System
	 The user connects to the Internet. The user logs in to the mobile application. The user taps different features. 	1.1 The system displays an error message if the user does not have internet connectivity. 2.1 The system displays the home page of the mobile application.
Exception Conditions:	The user must install the mobile application to his/ her andro device. The user must be registered The user must have internet connection	

Use Case Name:	Edit account information
Scenario:	The user wants to change his or her current account password.
Triggering Event:	The user forgot his current account password.
Brief Description:	The user cannot remember his/ her current account password.
Actors:	User
Related Use Case:	Create an account
Stakeholders:	User

Preconditions:	 The user must install the mobile application to his/ her android device. The user must be registered The user must have internet connection The user must input his or her email address that he or she used in registration. 		
Postconditions:	The user must receive an email from the system that will let the user to change his or her current account password.		
Flow of Activities:	Actor System		
	 The user connects to the Internet. The user logs in to the mobile application. The user taps the retrieve password button. The user enters the email used in registration. 	1.1 The system displays an error message if the user does not have internet connectivity. 2.1 The system displays the home page of the mobile application. 3.1 The system displays a screen that asks for old email address. 4.1 The system sends an email to the user that will let the user change his/her current account password.	

Exception Conditions:	 The user must install the mobile application to his/ her android device. The user must be registered The user must have internet connection The user must enter his/her email address used in registration. 	
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Use Case Name:	Edit video
Scenario:	The user wants to trim the video footage he/she captured.
Triggering Event:	The video is too long. Lots of unnecessary parts.
Brief Description:	The user wants to trim the video to reduce the data that will be consumed in uploading the video.
Actors:	User
Related Use Case:	Create account, Browse features
Stakeholders:	User
Preconditions:	 The user must install the mobile application to his/ her android device. The user must be registered The user must have internet connection The user must have video footage captured either using android device or dashboard camera.
Postconditions:	The user must be able to reduce the file size

Flow of Activities:	Actor	System	
	The user opens up video cutter The user saves the video to the android file system.	1.The cut of the unnecessary part will be saved 2.It can be played on the android file system.	
Exception Conditions:	•The user must have internet connection. •The user can use the video cutter.		
Use Case Name:	Upload Video or Picture		
Scenario:	The user wants to report an incident.		
Triggering Event:	The user was able to film an incident		
Brief Description:	The user captured an incident and wants to report.		

Actors:	User	
Related Use Case:	Create account, Browse features	;
Stakeholders:	User, Agency, Leading agency	
Preconditions:	 The user must install the mobile application to his/ her android device. The user must be registered The user must have internet connection The user must have video footage captured either using android device or dashboard camera. 	
Postconditions:	The user must provide or input the needed information before uploading to google drive.	
Flow of Activities:	Actor	System
	 The user connects to the Internet. The user login to the mobile application. The user taps the upload from file system button. The user picks the video or picture to be uploaded to google drive. The user confirms his or her action. 	1.1 The system displays an error message if the user does not have internet connectivity. 2.1 The system displays the home page of the mobile application. 3.1 The system displays the android file system 4.1 The system selects the video/ picture tapped by the user. 5.1 The system uploads the video or picture to google drive.

Exception Conditions:	 The user must install the mobile application to his or her android device. The user must be registered The user must have internet connection The user must provide the required information The user must have a video or picture of an incident

Use Case Name:	Validate Incident Report
Scenario:	The Barangay Magallanes employee received an incident report
Triggering Event:	Validate Incident Report
Brief Description:	The Barangay Magallanes employee will validate the incident report
Actors:	User, Barangay Magallanes employee
Related Use Case:	Upload picture or video, edit video
Stakeholders:	User, Agency, Leading agency
Preconditions:	 The Barangay Magallanes must have an account and login to the firebase. The Barangay Magallanes must validate the incident report
Postconditions:	 The Barangay Magallanes employee must be able to validate the report. The Barangay Magallanes employee must be able to view the

	incident report in the firebase.The Barangay Magallanes employee must notify the user once the report is validated.	
Flow of Activities:	Actor	System
	1. The Barangay Magallanes employee must be logged in to google drive. 2. The Barangay Magallanes employee will categorize the incident report if the report is valid, otherwise, the incident report will be deleted.	1.1 The system lists the incident reports filtered by category.
Exception Conditions:	• If the report of the user is fake.	

Use Case Name:	Notify leading agency
Scenario:	The incident report is validated
Triggering Event:	An incident is reported.
Brief Description:	The Barangay Magallanes employee notifies the leading agency.
Actors:	Barangay Magallanes employee, leading agency, user

Related Use Case:	Validate Incident Report		
Stakeholders:	User, Agency, Leading agency		
Preconditions:	 The Barangay Magallanes employee must have validated the incident report The Barangay Magallanes employee must notify the leading agency. 		
Postconditions:	The leading agency must respond to the incident. Both the Barangay Magallanes and leading agency must generate an incident report.		
Flow of Activities:	Actor	System	
•	 The Barangay Magallanes employee validates the incident report The Barangay Magallanes employee notifies the leading agency. Both the Barangay Magallanes agency and leading agency must generate an incident report. 	1.1 The system displays the list of incident reports arranged to its category.	

Exception Conditions:	The leading agency's resources are broken.	

Use Case Name:	Generate Incident Report
Scenario:	The incident report is validated
Triggering Event:	An incident report was solved.
Brief Description:	An incident report was solved.
Actors:	Barangay Magallanes employee, leading agency
Related Use Case:	Validate Incident Report, Notify leading agency
Stakeholders:	User, Agency, Leading agency
Preconditions:	• The incident report must be solved.

Postconditions:	Both Barangay Magallanes agency and leading agency must generate an incident report.	
Flow of Activities:	Actor 1. Barangay Magallanes employee notifies the leading agency 2. Leading agency responds to the incident report.	System 1.Leading agency response to the barangay magallanes according to the matter of the incident. 2.Leading agency gathered information from the barangay magallanes to respond according to the report.
Exception Conditions:	1. If the location of the incident is they're usually operated.	s not in the city or place where

4.3 Gap Analysis

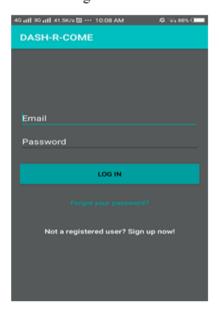
Dash-R-Come			
User Requirements	Current System	Goal	Proposed Changes
1.To be able to report an incident	A reporting application lacks notification to the user who uploaded the incident.	To have a detailed incident report to help government agencies verify if an incident really happened.	The mobile application will provide the list of Hotlines of Makati City Government Agencies, Video trimmer, Video uploader and Video Camera

4.4 Design of Software, Systems, Product, and/or Processes Index Screen

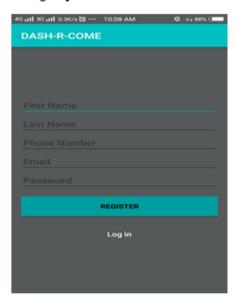


Login and Signup Screen

Log-in Screen



Sign up Screen



Capture Video and Upload from File System Screens

Capture Video Screen (Feature) Upload from File System (Feature)



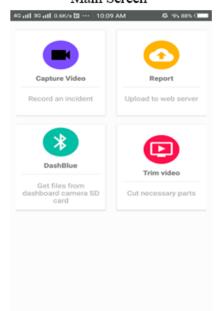


Forgot password and Home Screen



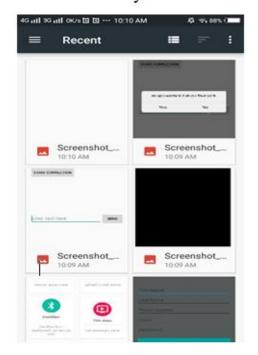


Main Screen

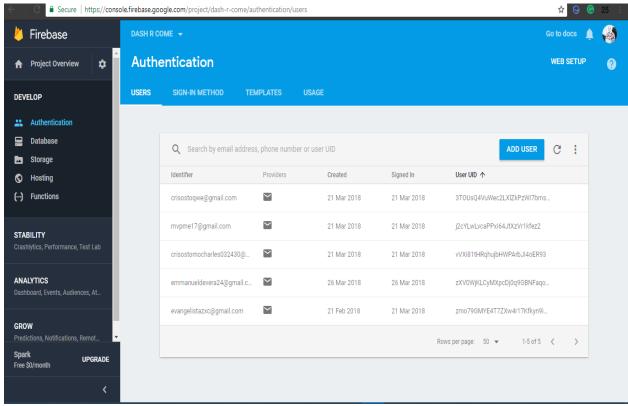


File System

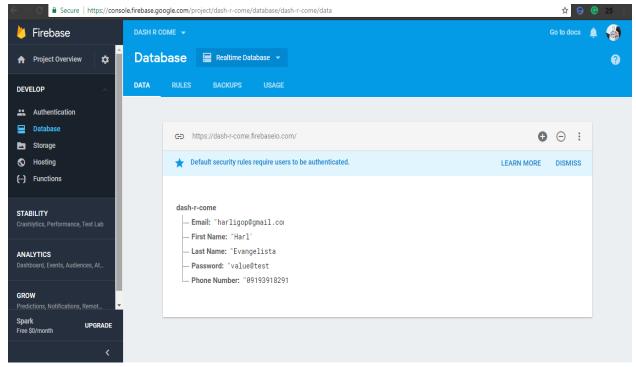
File System



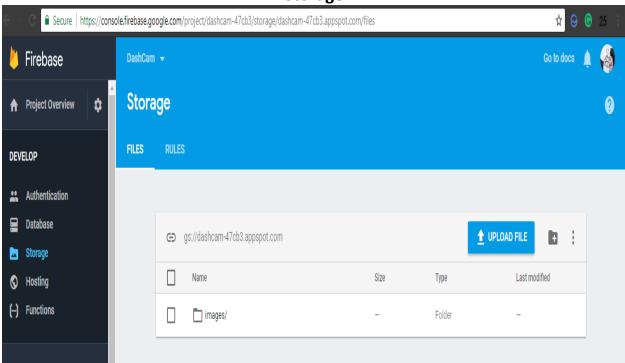
Authentication

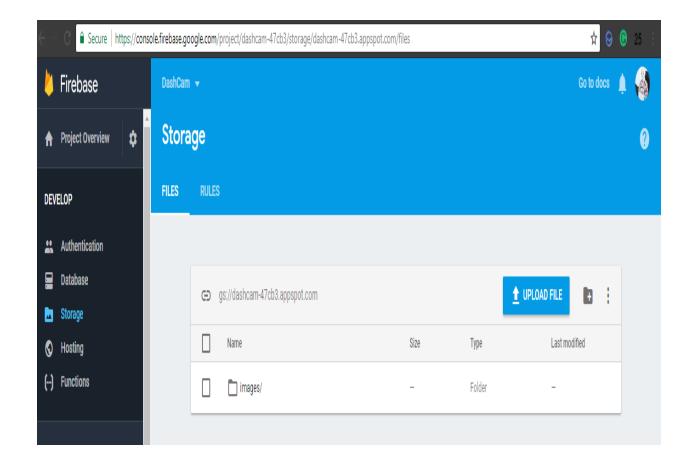


Database



Storage





4.5 Development and Testing, where applicable

The prototype that the team will be developing is powered by Android Studio and Firebase. Android Studio is the main tool for developing android application. It provides the fastest and efficient way to build a mobile application. Firebase a restful online file storage web service for storing and accessing data on Google's infrastructure. The prototype would enable the developers to create the proposed project. System testing gains the developers to verify that the system will handle all input data properly, both valid and invalid.

Chapter V

Conclusions and Recommendations

In today's times, reporting a crime, traffic accident, or accusing someone of a crime is hard to investigate if there is no evidence. A mobile application like Dash-R-Come could serve as an alternative tool in capturing and reporting an incident. Our proposed system aims to help the client get a real-time and detailed incident reports. Since the client's biggest problem are prank reports. Using the proposed system, the client will be able to avoid deploying their people unusably to respond to prank reports. Since there will be employees Barangay Magallanes that will be monitored and analyzing and the incident reports, it can assure that prank reports may lessen.

Chapter VI Appendices

6 Appendices

6.1 Relevant Source Code

```
package com.example.dell780ddr3.dash r come.AccountActivity;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import com.example.dell780ddr3.dash r come.R;
public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    public void btnCapture (View v) {
        Intent i = new Intent( packageContext: MainActivity.this, VideoApp.class);
        startActivity(i);
    public void btnBlue(View v) {
        Intent b = new Intent( packageContext: MainActivity.this, MainActivity3.class);
        startActivity(b);
    public void btnReport (View v) {
        Intent r = new Intent ( packageContext: MainActivity.this, ReportIncident.class);
        startActivity(r);
```

6.2 Evaluation Tool or Test Documents

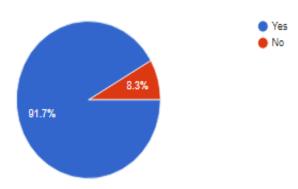
As a motorist, are you aware of the traffic violations and road signs?*	
O Yes	
○ No	
If an accident occurred or you witnessed a crime on the road, do you kn who to contact or where to report?	ow *
○ Yes	
○ No	
In the previous question, if you answered "Yes" please specify the conta (Ex. 911) otherwise "N/A"	ict. *
Short-answer text	
Based on experience, how long did the Local Government Unit (LGU) / Policemen took to respond to the incident?	*
	*
Policemen took to respond to the incident?	*
Policemen took to respond to the incident?	*
Policemen took to respond to the incident? 15-30 minutes 30-45 minutes	*
Policemen took to respond to the incident? 15 - 30 minutes 30 - 45 minutes 45 minutes - 1hour	*
Policemen took to respond to the incident? 15 - 30 minutes 30 - 45 minutes 45 minutes - 1hour 1 hour or more	*
Policemen took to respond to the incident? 15 - 30 minutes 30 - 45 minutes 45 minutes - 1hour 1 hour or more I haven't experience yet Other	*
Policemen took to respond to the incident? 15 - 30 minutes 30 - 45 minutes 45 minutes - 1hour 1 hour or more I haven't experience yet	*
Policemen took to respond to the incident? 15 - 30 minutes 30 - 45 minutes 45 minutes - 1 hour 1 hour or more I haven't experience yet Other Do you know any existing mobile application that is about reporting an	*

In the previous question, If you answered "Yes", please specify the name of the application: (Ex: Waze) otherwise, "N/A".	*
Short-answer text	
A video cutter feature that lets the user cut only the necessary part of the video that will be send to the Local Government Unit (LGU)	*
O Very Useful	
○ Useful	
Moderately Useful	
Not Useful at all	
A GPS feature that could help the rescuer track the location of the incident easily	*
O Very Useful	
○ Useful	
Moderately Useful	
Not Useful at all	

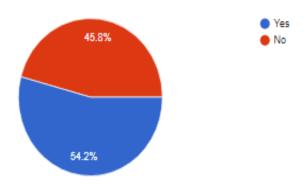
A feature that sh	ows the n	earest LG	U/Police	station		*
Very Useful						
O Useful						
Moderately Useful						
Not Useful at all						
A log in feature t	o avoid pı	rank repor	ts			*
Very Useful						
O Useful						
Moderately Useful						
Not Useful at all						
As a citizen, what incident and tha	t would h	elp the LG	U/police			
A feature that conta	ins the list of h	notlines that yo	u can use in er	mergency purpo	oses (Ex. 911)	
Other						
Rate 1-5 (5 be hi on the given fea		how grea	at and use	ful do you	ı think the	e app based *
	1	2	3	4	5	
Nonsense features	\circ	\circ	\circ	\circ	0	Absolutely Great and useful application!
What other sugg (Ex. Additional for Short-answer text						

As a motorist, are you aware of the traffic violations and road signs?

24 responses

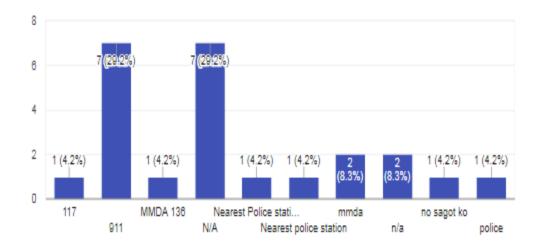


If an accident occurred or you witnessed a crime on the road, do you know who to contact or where to report?

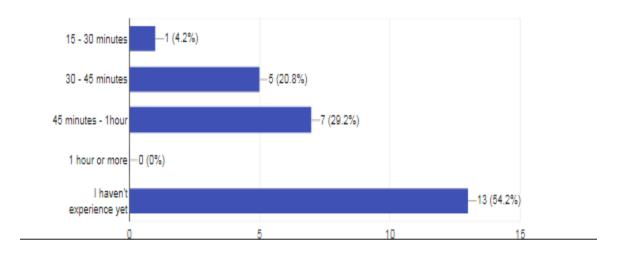


In the previous question, if you answered "Yes" please specify the contact.(Ex. 911) otherwise "N/A"

24 responses

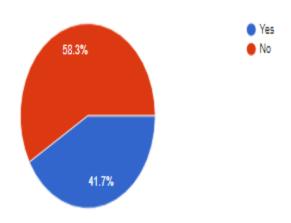


Based on experience, how long did the Local Government Unit (LGU) / Policemen took to respond to the incident?

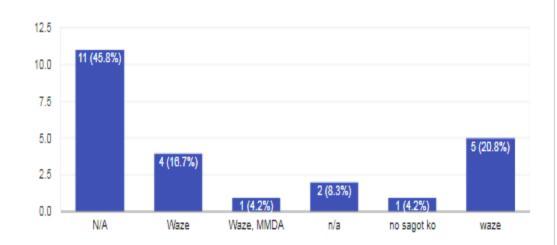


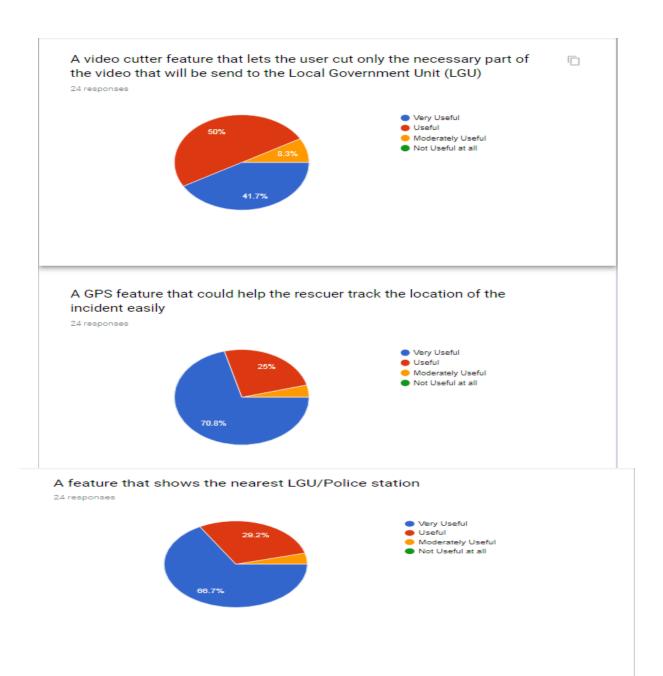
Do you know any existing mobile application that is about reporting an accident or traffic violations?

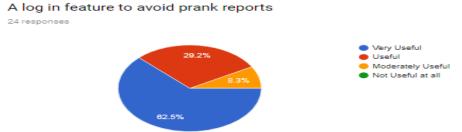
24 responses



In the previous question, If you answered "Yes", please specify the name of the application: (Ex: Waze) otherwise, "N/A".





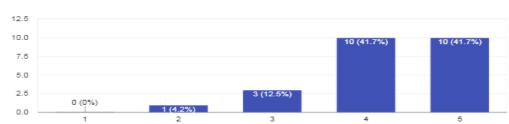


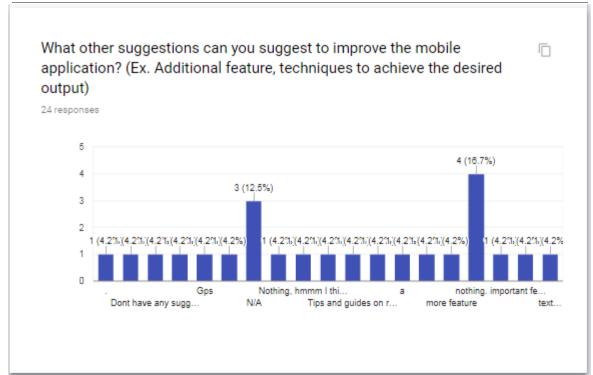
As a citizen, what features do you think could help you in reporting an incident and that would help the LGU/police to respond to immediately?

24 responses

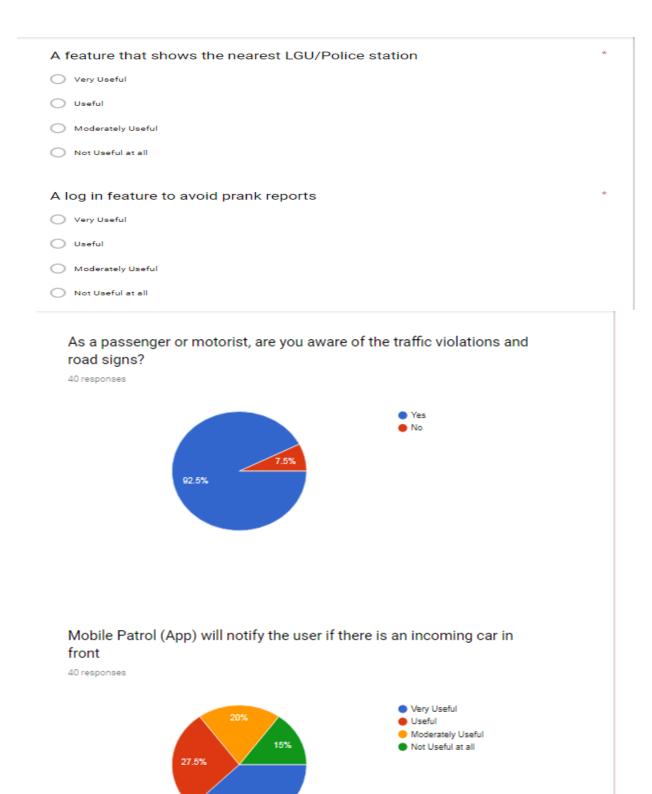


Rate 1-5 (5 be highest) on how great and useful do you think the app based on the given features.



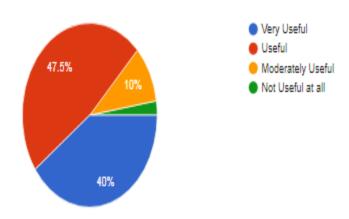


A Button that enables the user choose which part of the video will be sent to the	ne
O Very Useful	
O Useful	
Moderately Useful	
Not Useful at all	
Once the video was sent to the nearest police station, it will send GPS signal Very Useful Useful Moderately Useful Not Useful at all	ĸ
A feature that sends GPS Signal to the Local Government Unit(LGU) to track	Ar.
O Very Useful	
O Useful	
Moderately Useful	
Not Useful at all	
In the previous question, If you answered "Yes", please specify the name of the application: (Ex: Waze) otherwise, "N/A".	
the application: (Ex: Waze) otherwise, "N/A".	
the application: (Ex: Waze) otherwise, "N/A".	*
the application: (Ex: Waze) otherwise, "N/A". Short-answer text A video cutter feature that lets the user cut only the necessary part of the	*
A video cutter feature that lets the user cut only the necessary part of the video that will be send to the Local Government Unit (LGU)	*
the application: (Ex: Waze) otherwise, "N/A". Short-answer text A video cutter feature that lets the user cut only the necessary part of the video that will be send to the Local Government Unit (LGU) Very Useful	*
the application: (Ex: Waze) otherwise, "N/A". Short-answer text A video cutter feature that lets the user cut only the necessary part of the video that will be send to the Local Government Unit (LGU) Very Useful Useful	*
the application: (Ex: Waze) otherwise, "N/A". Short-answer text A video cutter feature that lets the user cut only the necessary part of the video that will be send to the Local Government Unit (LGU) Very Useful Useful Moderately Useful	*
the application: (Ex: Waze) otherwise, "N/A". Short-answer text A video cutter feature that lets the user cut only the necessary part of the video that will be send to the Local Government Unit (LGU) Very Useful Useful Moderately Useful Not Useful at all A GPS feature that could help the rescuer track the location of the incident	*
the application: (Ex: Waze) otherwise, "N/A". Short-answer text A video cutter feature that lets the user cut only the necessary part of the video that will be send to the Local Government Unit (LGU) Very Useful Useful Not Useful at all A GPS feature that could help the rescuer track the location of the incident easily	*
the application: (Ex: Waze) otherwise, "N/A". Short-answer text A video cutter feature that lets the user cut only the necessary part of the video that will be send to the Local Government Unit (LGU) Very Useful Useful Not Useful at all A GPS feature that could help the rescuer track the location of the incident easily Very Useful	*
the application: (Ex: Waze) otherwise, "N/A". Short-answer text A video cutter feature that lets the user cut only the necessary part of the video that will be send to the Local Government Unit (LGU) Very Useful Moderately Useful Not Useful at all A GPS feature that could help the rescuer track the location of the incident easily Very Useful Useful Useful	*

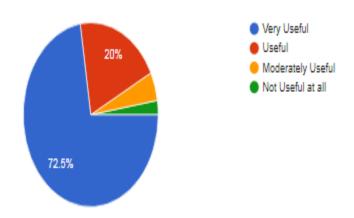


A Button that enables the user choose which part of the video will be sent to the nearest police station

40 responses



Once the video was sent to the nearest police station, it will send GPS signal to the person who will respond so they can easily track the location of the incident



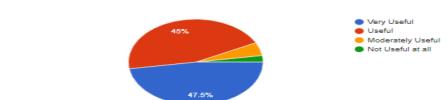
A feature that sends GPS Signal to the Local Government Unit(LGU) to track the location of accident so that they could respond quickly would help?

40 responses



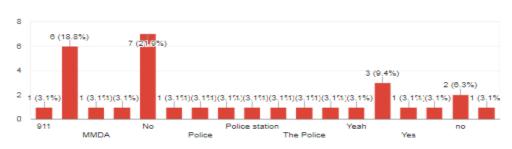
The user can be a guest user or a registered user (Once registered, the user can link his/her account the other user who has also registered account). This feature is an emergency button that once tapped, it will send GPS Signal to the linked account

40 responses



Do you know where to report or who to contact the incident you encountered?

32 responses

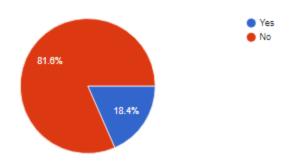


How long did the police/mmda personnel took to respond?



Do you know any mobile application that is about reporting an accident or traffic violations?

38 responses



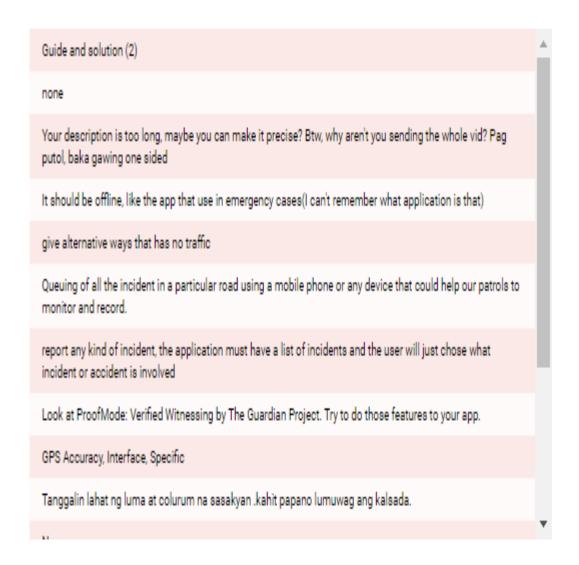
If yes, please specify the application name:

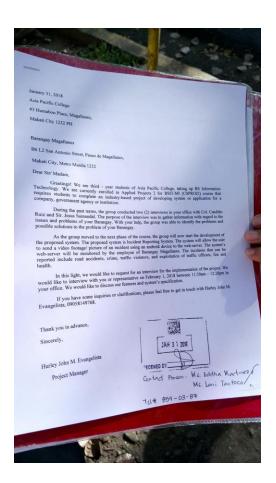
1 response

Waze, for accidents



As a motorists or passengers, what suggestion can you think to improve the mobile patrol?











6.3 Sample input/output/Reports

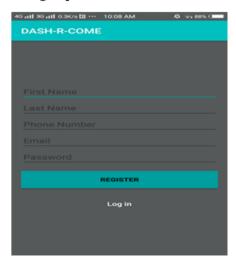
INPUT

The user register and login to the mobile application.

Log-in Screen



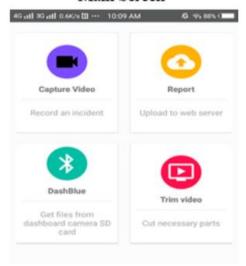
Sign up Screen



OUTPUT

The mobile application will go to home screen activity.

Main Screen



6.4 Users Guide

The Dash-R-Come allows user to send incident report. The mobile application also provides hotlines to its own specific constituents. The application saves incident report either video or picture to firebase. The mobile application runs on android devices

Step 1

Register – the user needs to provide information required by the mobile application

Send Anonymously – The user can send anonymously and can some mobile application features

Logging in – The user must input his or her email and password to login to the mobile application.

Step 2

Features – The mobile application has 4 main features, the "video recorder", "video uploader", "list of hotlines", and "video trimmer".

Step 3

The firebase database serves as a database of the system. Also, it is responsible for the user authentication

6.5 Curriculum Vitae

Personal Details

Name:	Hurley John M. Evangelista
Complete Address:	MEQ U-2B BNS Fort Bonifacio, Taguig City
Contact Number	09058149768
Email Address:	hmevangelista@student.apc.edu.p h



Educational Background

Educational Attainment:	Asia Pacific College, Magallanes Makati City Bachelor of Science in Information Technology with specialization in Mobile and Internet Technology 2015 - Present
	Total Concept Integrated School - High School Villamor Air Base Elementary School - Elementary

Skills:	Android Programming
	Web Programming
	MySQL Programming

Personal Details

Name:	Emmanuel Devera
Complete Address:	BLDG P USUSAN TAGUIG CITY
Contact Number	09955573433
Email Address:	esdevera@student.apc.edu.ph BERTdevera28@protonmail.com



Educational Background

Educational Attainment:	Asia Pacific College, Magallanes Makati City Bachelor of Science in Information Technology with specialization in Mobile and Internet Technology 2015 - Present
	MCA Montessori School - High School
	Nasugbu West Central School - Elementary

Skills:	*SQL Programming *C++ Programming *Computer Security *Network Security *Web Designing
---------	---

Personal Details

Name:	Alyssa Anne F. Fernandez
Complete Address:	Blk 9 Lot26 Burnham Park, Road 6, Talon 5, Teresa Subd. Las Pinas City
Contact Number	09167449709
Email Address:	affernandez@student.apc.edu.ph



Educational Background

Educational Attainment:	Asia Pacific College, Magallanes Makati City Bachelor of Science in Information Technology with specialization in Mobile and Internet Technology 2014- Present
	Pasay City South High School - High School
	Villamor Air Base Elementary School - Elementary

Skills:	 Android Programming Web Programming MySQL Programming Java Programming
---------	---

Personal Details

Name:	Miguel Enrico Matawaran
Complete Address:	465G Protacio St. Pasay City
Contact Number	09156410317
Email Address:	mlmatawaran@student.apc.edu.ph

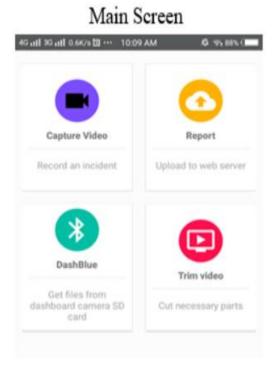


Educational Background

Educational Attainment:	Asia Pacific College, Magallanes Makati City Bachelor of Science in Information Technology with specialization in Mobile and Internet Technology 2015 - Present San Isidro Catholic School - High School and Elementary
	and starte eachest ing. realiser and Elementary

Skills:	Android ProgrammingWeb Programming
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6.6 Screen layouts



6.7 Pictures showcasing the data gathering, investigation done (e.g. floor plan, layout, building, etc.)

Results of the Interview

As the group identifies the factors that will help to improve the process in developing the proposed system, the group conducted an interview in Barangay Magallanes that contains 15 questions and lasted for 20 minutes, questions that includes the interviewee's personal information, rules and regulations of Makati City traffic and common traffic problems and crimes that they usually encounter in their area. The data below is the result of the interview that the group conducted.

The name of the interviewee is Sir Jesus Sumandal, he is one of the Desk Officers in Barangay Magallanes. The Desk Officer is the one who receives complaints; also, he is in-charge in deploying people in an incident.

They can respond to all kinds of crimes and incident in the City of Makati. It is possible to respond in that area, we asked. He told us that if the concern is in our area. We can respond with the participation in NDCC. The barangay of Magallanes Makati has some different divisions such as; Peace and Order, Accounting, Social Service, Health Clinic, Infrastructure, and Educational & Culture

They process the incident report as follows; Get the following information. Details of the incident, Description of the suspect, information about the complainant, what is the thing stolen, if the complainant will not file against the complainant and if the thing stolen has a big amount; How do they validate the report, The Barangay Officer will know if the complainant is lying or not, first in the interview. If the complaint is true, they will endorse it to CDI and do their process

They have allotted budget and resources. They have Wi-Fi connection and computers and a database. The team also asked the commonly committed crime in the Makati area. Sir Sumandal mentioned that, it is snatching and most victims' APC students.