**CEBU INSTITUTE OF TECHNOLOGY**

**UNIVERSITY**

COLLEGE OF COMPUTER STUDIES

Software Test Document

for

Earthquake Analyzer

Signature

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Change History

|  |  |  |  |
| --- | --- | --- | --- |
| Revision no. | Changes | By | Date |
| 1.00 | Added title, signature, change history | Keith Joseph Damandaman | October 12, 2018 |
| 1.01 | Added Purpose Added Scope  Added Pass/Fail Criteria & Feature to be tested | Keith Joseph Damandaman | October 13, 2018 |

Preface

Earthquakes are one of the most dangerous natural disaster on Earth especially to the infrastructures. It would be nice if we could monitor the seismic behavior of the earth’s crust when there is an earthquake. Today, we have the technology to do make that with come true. Unfortunately, here in the Philippines, we still have to import this technology to the country and the price of this technology is nothing to laugh at. This is where the Earthquake analyzer comes into play.

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# Introduction

This document is a test plan for the Earthquake Analyzer System Testing. It describes the testing strategy and approach to testing the team will use to verify that the application meets the said requirements and features of the said application.

## System Overview

## Test Approach

All features shall be tested and any possible cases where the user will do to the app will also be tested.

## Definitions and Acronyms

The features that make up Earthquake Analyzer will be tested thoroughly during the testing period. It should be led by the team’s testers and the scrum master will be notified about the changes and updates.

Items to be tested are as follows:

* Program interfaces/fragments
* Program functions
* Program additional features
* User procedures

# Test Plan

The application must be tested thoroughly using and an actual smartphone to ensure that the system is working properly. All of the application’s features and functionalities must be tested to ensure that all requirements will be met. The Application will also be tested on different Android phones with different API levels to see the difference and which API level and phone.

## Features to be Tested

|  |  |
| --- | --- |
| **Feature** | **Priority** |
| Start Recording | Medium |
| Stop Recording | Medium |
| Save | Medium |
| Load Button | High |
| Show saved data | Medium |
| Load saved data | High |
| Compass | Low |
| Calculate Hypocenter | High |
| Calculate Direction | High |
| Save Data File format compatible with Philvolcs’ | High |

## Features not to be Tested

The actual data output of Philvolcs cannot be tested on this application due to difference of the unit of the output from Philvolcs’ sensors and the phones sensors. Only local data gathered through the accelerometer of the phone will be used, thus accuracy couldn’t be tested.

## Testing tools and Environment

Tools:

* Vibrator

Environment:

* Flat Surface area

# Test Cases

## Case – 1

### Purpose

### Inputs

### Expected Output & Pass/Fail Criteria

|  |  |
| --- | --- |
| **Feature** | **Requirement** |
| Start Recording | When the application successfully starts recording and the text of the button changes into “Stop recording” |
| Stop Recording | When the application successfully stops recording |
| Save | Medium |
| Load Button | High |
| Show saved data | Medium |
| Load saved data | High |
| Compass | Low |
| Calculate Hypocenter | High |
| Calculate Direction | High |
| Save Data File format compatible with Philvolcs’ | High |

### Test Procedures

# Test Cases

## Log for Test n

## Test Results

## Incident Report