Cairo University  
Faculty of Computers and Information



**CS251**

**Software Engineering I**

Android Theft Monitoring App

Software Requirements Specifications

Team Names

Team A

Month & Year

November 2016

Contents

[Instructions [To be removed] 2](#_Toc447313428)

[Team 3](#_Toc447313429)

[Document Purpose and Audience 3](#_Toc447313430)

[Introduction 3](#_Toc447313431)

[Software Purpose 3](#_Toc447313432)

[Software Scope 3](#_Toc447313433)

[Definitions, acronyms, and abbreviations 3](#_Toc447313434)

[Requirements 4](#_Toc447313435)

[Functional Requirements 4](#_Toc447313436)

[Non Functional Requirements 4](#_Toc447313437)

[System Models 4](#_Toc447313438)

[Use Case Model 4](#_Toc447313439)

[Use Case Tables 5](#_Toc447313440)

[Ownership Report 6](#_Toc447313441)

# Instructions [To be removed]

* **IMPORTANT. Rename this document to CS251-LeaderID-SRSDocument.docx**

**(e.g. CS251-20040752-SRSDocument.docx)**

* **Remove the following notes and any red notes.**
* **This document is the template document for your SRS.**

# Team

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Email** | **Mobile** |
| 20146001 | Ahmed Samir |  |  |
| 20146017 | Habiba Bahaa |  |  |
| 20146004 | Ahmed Mustafa |  |  |
| 20146005 | Alaa Sameh |  |  |
| 20146003 | Ahmed Mohammed |  |  |
| 20146008 | Sara Sedky |  |  |

# 

# Document Purpose and Audience

# Software requirements specifications is a document that describes the expected behavior of “Theft Monitoring” Application such that functional requirements , non-functional requirements , use case model , use case tables are identified in this document.

# Target Audience are project owner and the customer

# Introduction

## Software Purpose

* **The software purpose is to provide the ability of returning the stolen mobile easily through an application that sends a message to a pre - defined number saved , This message contains the location of the mobile and other info about the mobile and its data.**

## Software Scope

* **Allow user to enter his info, sign up (mobile number and name ) by using a web interface.**
* **Get the location of the mobile every part of time**
* **Get the list of contacts**
* **Format the mobile storage**
* **Launch camera and take a photo**
* **record audio track for a certain part of time**
* **Get the list of calls made by the thief**
* **Get number and serial of the new inserted sim card**

## 

## Definitions, acronyms, and abbreviations

* **None**

# 

# Requirements

## Functional Requirements

* It is a mobile application that displays the mobile’s current location when stolen or lost. Mobile app uses GPS satellites (global positioning system) to determine its location and send the location to the predefined number or email.
* When the mobile phone gets stolen, the GPS automatically locate the stolen phone and sends the mobile’s current location to the predefined number or email.

* As the application is running it sends a message with all the current contacts on the mobile phone to the predefined number or email so that the user can ensure the availability of his contact list even if the mobile phone get formatted.
* As the application is running it will request the front camera to launch and take several pictures of the thief without him knowing and send it to the predefined number and email
* As the application is running it will request the voice recorder to launch and record several audios for the thief and send them to the predefined number or email

* When a new SIM card is inserted and the application runs, the serial number is sent to the predefined number and email

## 

## Non Functional Requirements

1) **Usability:**

* User must have an account to access the devices.
* User must be setup the Application on the Setting on phone
* Phone connected be default ( when phone turned on )
* On startup a use guide will load to go through the whole system and how it could be used

2) **Reliability:**

* In case of application crash, none of the other applications or the OS will be affected.
* In case of system failure when user turned off and turned on again and restart the Application
* Application won't remove or uninstalled if phone is shut down

3) **Performance:**

* In case of lost connection with device, application will try to reconnect automatically every 20 seconds for 3 times and then it will be disconnected if the user did not manually click retry.
* When startup the phone the Application send photo of the place where phone is and taken no more 2min form starting phone
* Application send message has list of contacts how phone calls after one hour after starting a phone

4) **Security:**

* Only users registered can have access to the devices connected to their board.
* Access differs depending on the type of user whether an Admin or a Phone User

**5) Scalability:**

* System will support all phone appliances with GPS
* System will support Android mobile application
* System should handle smoothly up to 6 devices.

# System Models

## Use Case Model

## 

