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MyRescueTeam

MyFire (v0.3)

Messir User Manual
- v 1.0.3 -

Based on IEEE Std 1063-2001 [1]

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Chapter 1
Product information

1.1 Identification

MyFire is a downloadable application for your smartphone. All you need is a smartphone with an internet connection. It will automatically track your location and synchronize you with the nearest fire department. This app is running on android for the moment by later it will be upgraded for other operating systems. All the central stations will be equipped with our software which keeps track of all the reports by the app. The registered data will be saved on our servers as backup and only be accessed by our team. The software is running on Windows and IOS and our servers on Linux.

1.2 Copyright

1.3 Trademark notices

1.4 Restrictions

Restrictions on copying or distributing the software and its associated documentation.

1.5 Warranties

The smartphone application is a free downloadable for anybody. The tracking software for the central stations is an issue-free running program with very simple and purposeful interface. Any issue can be directly reported and will be investigated.

1.6 Contractual obligations

It is our obligation for a proper running program. Any issue will be recorded, examined and resolved.

1.7 Disclaimers

We do not take responsibility for misuse of our application. This program is only for emergency situations.

1.8 Contact

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Chapter 2
Introduction

2.1 Scope

This document provides basic information about *MyFire (v0.3)* .The document contains environments where *MyFire (v0.3)* can be deployed, information how victims and witnesses of a fire can request help with *MyFire (v0.3)* .

This document may be used with other documents provided by third-party companies which provide a better understand in which cases and environment where the software *MyFire (v0.3)* is supposed to be deployed.

This document is not intended to provide information on how to download, install, or configure *MyFire (v0.3)* .

2.2 Purpose

We aim for a quick and accurate transmission of information to the central stations. Our project is user friendly and helps to minimise panic situations. There is no more need to call the central station, with only a few clicks you can provide all the useful information the stations need for an efficient deployment of all rescue workers.

2.3 Intended audience

The intended audience for our application is evrey person that could be a victim or witness of a fire. The application itself is designated for everybody and the tracking software for firefighters in their central station.

2.4 *MyFire (v0.3)*

MyFire is an application for smartphones which indicates and locates the situation where fire is burning by taking a pictures and automatically sending the GPS coordinates to the central stations.

2.4.1 Actors & Functionalities

Our application has a simple user-friendly interface which can be use by anybody with just a few clicks. Of course you can choose to call the central station if needed. For our software which is located at the fire departments are also intended for end-users with a purposeful interface where an interaction with the witness is possible.

2.4.2 Operating environment

The software is deployed in fire departments and will be used by firefighters to locate and categorize the situation which will be send by a witness or victim via smartphone application.

2.5 Document structure

This user manual is guideline for firefighters and others who use our smartphone application. In chapter 3 there will be application instructions as well as procedures on how the application is working. Chapter 4 describes our software more in depth.

Chapter 3
Usage Guide

The use of the software *iFire* is to accelerate the procedure of alerting encounters of fire. The software will also provide a better understanding of the situation with the included functions of taking pictures and sending GPS coordinates.

Currently the actors which perform said action are the victims or the witnesses. They can report a fire encounter using *iFire*. The application is designed to help in every situation possible while also beeing very user friendly.

3.1 Actors common procedures

Victim/Witness uses the *Victim/Witness alert fire* to indicate the encounter of a *fire*. The GUI is almost exactly the same, the difference lies in the requested data. For example the victim can sometimes say more about the fire than the witness because he/she is trapped inside the building. This is all done by working with the iFire application. When the user finished inputting the requested data the smartphone will forward it to the server.

The server will then evaluate the received data and sends parts of the data to the respective departments, these departments are *policemen*, *firefighters* and *medics*.

3.1.1 Victim/Witness alerts fire

Use Case: Victim/Witness alerts fire
Scope: Crisis Management System (*CMS*)
Primary Actor: Victim/Witness
Secondary Actor: Departments,
Victim/Witness smartphone (VSP),
Server
Intention: The intention of the Victim/Witness is to create a mission.
Level: Sub-functional level
Main Success Scenario :
1. *Victim/Witness* fills out the *CMS* to process a mission with the help of *VSP*.
2. *VSP* sends the data to the *Server* to inform of a new mission.
3. *Server* sends the respective data to the respective *Departments*.
4. *Departments* executes the mission.
5. *Departments* informs to the *Server* of his arrival.
6. *Departments* informs to the *Server* the mission outcome.

Extensions :
4.a None internal worker can execute the mission.
4.a.1 *Departments* informs *Server* that the request can be processed.
Use case continues at step 5.

3.1.2 MyCommonProcedure2

Not yet used.

3.2 Firefighter reports

The actor *firefighter* reports to the server if he is able to execute the mission. If he is capable of doing so, the firefighter needs to report how many men will be sent to the mission. These men will all be categorized as *firefighters* on our server.

3.2.1 Firefighter reporting

Use Case: Firefighter reporting
Scope: Crisis Management System (*CMS*)
Primary Actor: Firefighter
Secondary Actor: Server
Intention: The intention of the Firefighter is to confirm and process a mission.
Level: Sub-functional level
Main Success Scenario :

1. *Firefighter* confirms the new listed mission.
2. *Firefighter* sends his men to the missions' location and informs the *Server* how many he sent.
3. *Server* groups the received data to the respective tables.
4. *Firefighter* informs to the *Server* of his arrival.
5. *Firefighter* reports to the *Server* the mission outcome and details.

3.2.2 MyProcedure2

3.3 My-Actor2 procedures

3.3.1 MyProcedure1

3.3.2 MyProcedure2

3.4 My-Actor3 procedures

3.4.1 MyProcedure1

3.4.2 MyProcedure2

Chapter 4
Software operations

Our project has three parts: smartphone application, tracking software and our servers. The application can be used by any person and the software will be used by a person in authority at the fire department. The tracking software will be triggered by a notification as an alert as soon as the smartphone application is being used. It will indicate the location with the picture as well as the date. The person in authority will decide which security level will be taken as well as further needed procedures. After receiving the picture, the person in authority will need to call the person who took the picture to obtain more details on the situation or to conciliate the person. The gathered data will be saved on our servers as a backup or for case investigations but never for public media purposes. Notice: The taken pictures will never be saved on your smartphone for privacy reasons.

4.1 MyOperation

The system operator creates and adds a new fire to the system after being informed by a third party (citizen, witness) and selects diffrent rescue workers for the fire.

Parameters: Witness or victim, Information about fire, Rescue workers
Precondition: The system operator is logged in and has received information from a reporter.
Post-condition: A new fire has been added to the system and the new fire has been assigned to rescue worker, the rescue worker has received an automatic notification from the system.
Output messages: The selected rescue worker will be notified automatically once the crisis has been created.
Triggering:

1. From within the crisis management window fill out the required entries related to the personal information of the vicitm or witness.
2. Fill out the entries related to the fire and if you are a victim or a witness. If you are a victim you need to report if you are alone, trapped and send a photo. If you are witness you need to report what is bruning. Both witness and victim need to report what is burning and what the cause of the fire is.
3. Click on the Send button and the fire will be reported to the central station.

4.1.1 Apllication usage

Starting with an example of smartphone application:

A walking person who sees a burning barn of a farmer can quickly use his application without waiting for an answer on a call or describing the location of the incident. At the start he will need to define himself as a witness and indicate what is burning. After, he will need to confirm that he is sure to send the data, then he needs to take a picture which will be send to the next fire department. Additional details will be shown to help specify the situation. The person will receive immediately a call from the department to communicate with him as the witness for extra details or to settle down the person in panic situations if needed.

4.1.2 Tracking software

Example of our tracking software:

The person in authority receives an alert at the fire department. A notification pops up on the screen with a map location, the time and the picture from the crash scene. That person justifies the right emergency level and passes the given details to the firefighters. To clarify the situation, he or she calls that person for further information or just to calm down the witness.

Chapter 5
Error messages and problem resolutions

All known problems in using the software should be listed and explained in details using the structure presented below.

Contact information for reporting any problems (either with the software or this document) should be clearly indicated

5.1 Error message 1

5.1.1 Problem identification

A description explaining the meaning of the faced problem.

5.1.2 Probable cause

A description explaining the reasons why such a problem has been raised.

5.1.3 Corrective actions

Describe the required steps the actor should take to recover from such situation.

Appendix A
Title of the appendix 1

Here you write the context of the appendix, structuring such content in sections, sub-sections and sub-sub-sections, if needed.

An example of appendix is the flat presentation of all the graphical user interface screens. Each screen can be presented (identification symbol and description) and screens transition graph can be given.

A.1 My Section

Description of the section.

A.1.1 My subSection

A.1.1.1 My subSubSection

References

1. IEEE: IEEE Standard for Software User Documentation. IEEE Std 1063-2001 (Dec 2001) 1–24