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MyRescueTeam

MyFire (v0.4)

Messir User Manual
- v 0.4 -

Based on IEEE Std 1063-2001 [1]

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Chapter 1
Product information

1.1 Identification

MyFire is a downloadable application for the smartphone and can be used by everybody. This application will automatically track your location and synchronize you with the nearest fire department. This app is running on all operating systems. Our project includes also a software named MyFireRescue for the fire departments. This software will keep track of all the notifications and alerts which will be send from MyFire application. The registered data will be saved on our servers as backup and only be accessed by our team. The tracking software is running on Windows and IOS.

1.2 Copyright

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1.3 Trademark notices

Microsoft, Windows, Windows NT, Windows Server, Apple, Macintosh, Mac OS.

1.4 Restrictions

After distribution of the product, all rights will be reserved by the owners. Copying the product with the owner's permission is granted after examination.

1.5 Warranties

This warranty covers any defects in materials including installations. This warranty lasts as long as you own our product. Coverage terminates if you replace our system. MyRescueTeam will replace any defective or malfunctioning part at no charge.

1.6 Contractual obligations

It is our obligation for a proper running program. Any issue will be recorded, examined and resolved as well as regular upgrade and update for the system will be provided. Promotion and usage of our system by user is intended.

1.7 Disclaimers

We do not take responsibility for misuse of our system. 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 (v0.4)*** , the smartphone application and ***MyFireRescue (v0.4)*** , the software for fire departments. The document contains environments where ***MyFire (v0.4)*** and ***MyFireRescue (v0.4)*** can be deployed, information how victims and witnesses of a fire can request help with ***MyFire (v0.4)*** as well as information and guide lines on ***MyFireRescue (v0.4)*** .

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 (v0.4)*** is supposed to be deployed. This document is not intended to provide information on how to download, install, or configure ***MyFire (v0.4)*** or ***MyFireRescue (v0.4)*** .

2.2 Purpose

We aim for a quick and accurate transmission of information to the central stations in emergency situations. 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. MyFireRescue is also a user-friendly software which provides a clear and easy interface for the officers in the fire department.

2.3 Intended audience

The intended audience for the smartphone application is every 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 the central station. There needs to be a single or more officers who act as supervisors when an alert occurs, for better distribution of information and case analysis.

2.4 *MyFire (v0.4)* and *MyFireRescue (v0.4)*

MyFire (v0.4) and ***MyFireRescue (v0.4)*** is an application for smartphones which indicates and locates the situation where fire is burning. By taking and sending a picture you visualize the emergency. After usage, you send your GPS coordinates automatically to the fire department.

MyFireRescue (v0.4) is a software which tracks the alerts and allows the officers to create missions and to navigate the firefighters.

2.4.1 Actors & Functionalities

Actors: Witnesses, Victims and firefighters are the intend actors of our system. The smartphone application, MyFire should be used by everybody who is facing an emergency. Officers at the department should be the only actors for the tracking software, MyFireRescue.

Functionalities: ***MyFire (v0.4)*** has a user-friendly interface which allows the user to describe the emergency step by step on the screen with a few clicks and visualize the situation by taking and sending a picture to the fire department with the GPS coordinates which will be send automatically.

MyFireRescue (v0.4) allows the officers to track and locate the alert. Additionally, the software acts as a management systems by creating and register missions to fire fighters who will be send to the incident scene. All instances will be saved in history as backup for further investigations.

2.4.2 Operating environment

MyFireRescue (v0.4) is deployed in fire department offices and will be used by dedicated people for this post. MyFire application can be used by everybody who has the application downloaded on his smartphone and who is confronting an emergency.

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 ***MyFire (v0.4)*** 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, sending GPS coordinates and other information, making it possible for the rescue workers to resolve the alert in the most efficient way.

Currently the actors which perform said action are the victims or the witnesses. They can report a fire encounter using ***MyFire (v0.4)*** . The application is designed to help in every situation possible while also beeing very user friendly.

3.1 Actors: Victim or Witness

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.

3.1.1 Victim alerts fire

Use Case: Victim alerts fire
Scope: Crisis Management System (*CMS*)
Primary Actor: Victim
Secondary Actor: Officer at the Fire Department
Intention: The Victim is to signal an alert.
Level: Sub-functional level
Main Success Scenario :

1. The *Person* indicates if he is that he wants to report a fire.
2. The *Person* indicates if he is a *Victim*.
3. The *Victim* indicates if he is trapped,is alone and what is burning.
4. The *Victim* indicates that he is sure to send the Data and sends it to the *CMS*.
5. The *Victim* then can take a picture and send it to the *CMS* or go back to the main screen.
6. The *Victim* then can indicate what the ignition of the fire is and send it to the *CMS* or go back to the main screen.

3.1.2 Witness alerts fire

Use Case: Witness alerts fire

Scope: Crisis Management System (*CMS*)
Primary Actor: Witness
Secondary Actor: Officer at the Fire Department
Intention: The Witness wants to signal an alert.
Level: Sub-functional level
Main Success Scenario :

1. The *Person* indicates if he is that he wants to report a fire.
2. The *Person* indicates if he is a *Witness*.
3. The *Witness* indicates what is burning.
4. The *Witnes* indicates that he is sure to send the Data and sends it to the *CMS*.
5. The *Witness* then can take a picture and send it to *CMS* or go back to the main screen.
6. The *Witness* then can indicate what the ignition of the fire is and send it to *CMS* or go back to the main screen.

3.1.3 Witness/Victim edits report

Use Case: Witness/Victim edits report
Scope: Crisis Management System (*CMS*)
Primary Actor: Witness/Victim
Secondary Actor: /
Intention: The Witness/Victim want to edit their report.
Level: Sub-functional level
Main Success Scenario :

1. The *Person* indicates the he wants to edit his report.
2. The *CMS* send all the reports ot the *Person*.
3. The *Person* indicates which report he wants to edit.
4. The *Person* indicates what he wants to edit add an additional photo or additional infos
5. If the *Person* indicates that he wants to add a photo he can take a photo and send it to the *CMS*.
6. If the *Person* indicates that he wants to add additional information he can add/edit what the ignition of the fire was and send it to the *CMS*.

3.2 Officer at firedepartment

At the firedepartment the resposible officer connects with his credentials. After logging in to the *CMS* the officer can see all the reports that have been sent in by victims or witnesses. The officer at the fire department will then evaluate the information recieved from these reports. After evaluating the recieved information the officer will create a mission and send the rescue workers on the mission.

3.2.1 Officer logs in

Use Case: Officer logs in
Scope: Crisis Management System (*CMS*)
Primary Actor: Officer
Secondary Actor: /
Intention: The officer logs in to the *CMS* with his credentials.
Level: Sub-functional level
Main Success Scenario :

1. The *Officer* enter his username and passworde into the *CMS*.
2. The *CMS* checks the credentials of the *Officer*. If the entered credentials are correct he will be logged into the *CMS*.

3.2.2 Officer creates mission

Use Case: Officer creates mission
Scope: Crisis Management System (*CMS*)
Primary Actor: Officer
Secondary Actor: /
Intention: The officer creates a mission.
Level: Sub-functional level
Main Success Scenario :

1. The *Officer* indicates to the *CMS* that he wants to create a mission.
2. The *CMS* creates a mission.
3. The *Officer* assigns a missionleader, rescueworkers and a report/reports to the mission.
4. The *CMS* adds this information to the mission.

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3.2.3 Officer adds report to mission

Use Case: Officer adds report to mission
Scope: Crisis Management System (*CMS*)
Primary Actor: Officer
Secondary Actor: /
Intention: The officer adds a report to an already created mission.
Level: Sub-functional level
Main Success Scenario :

1. The *Officer* requests the *CMS* to list all the reports without a mission.
2. The *Officer* indicates to the *CMS* on which report he wants to recieve more informatioon.
3. The *CMS* return more information about the specific report.
4. The *Officer* indicates that he wants to assign the report to a mission.
4. The *CMS* returns the missions he can add them to.
5. The *Officer* indicates which mission he wants to add the report to.
6. The *CMS* adds the report to the mission.

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3.3 Missionleader at the fire

The missionleader on site uses the software to stay in communication with the officer at the firedepartment. With the software the missionleader can give updates on the situation on site and request help.

3.3.1 The Missionleader logs in

Use Case: Missionleader logs in
Scope: Crisis Management System (*CMS*)
Primary Actor: Missionleader
Secondary Actor: /
Intention: The missionleader logs in to the *CMS* with his credentials.

Level: Sub-functional level
Main Success Scenario :

1. The *Missionleader* enter his username and passworde into the *CMS*.
2. The *CMS* checks the credentials of the *Missionleader*. If the entered credentials are correct he will be logged into the *CMS*.

3.3.2 Missionleader updates situation

Use Case: Missionleader gives updates to the situation
Scope: Crisis Management System (*CMS*)
Primary Actor: Missionleader
Secondary Actor: Officer at firedepartment
Intention: The Missionleader gives updates on the situation at the fireplace
Level: Sub-functional level
Main Success Scenario :

1. The *Missionleader* indicates to the *CMS* that he want to give updates.
2. The *Missionleader* adds an update to the mission.
3. The *CMS* sends the updates to the *Officer* at the fire department.

3.3.3 Missionleader request reinforcments

Use Case: Missionleader request reinforcments
Scope: Crisis Management System (*CMS*)
Primary Actor: Missionleader
Secondary Actor: Officer at firedepartment
Intention: The missionleader requests the Officer at the firedepartment to send additional rescueworkers.
Level: Sub-functional level
Main Success Scenario :

1. The *Missionleader* indicates to the *CMS* that he need reinforcments.
2. The *CMS* displays the request to the *Officer*.
3. The *Officer* indicates to the *CMS* which rescueworkers to add to the mission.

Chapter 4

Software operations

Our project has two parts: witness/victim application for smartphone, ***MyFire (v0.4)*** and the fire department software, ***MyFireRescue (v0.4)*** . The smartphone application can be used by any person and the software will be used by an officer 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 officer will decide which security level will be taken as well as further needed procedures. After receiving the picture, the officer 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 the smartphone for privacy reasons.

4.1 MyOperation

The system operator creates and adds a new mission 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 MyFire (v0.4) usage

Starting with an example of ***MyFire (v0.4)*** 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. 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 MyFireRescue (v0.4)

Example of our software: The officer 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 incident scene. That officer 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.

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