**Cairo University  
Faculty of Computers and Artificial Intelligence**

Monqez

Domain Analysis

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# Team

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# Introduction

Monqez is a cross platform mobile application that aims to help people who need first aid by informing the closest first aider available from the patient's location to help them and save their lives. All registered first aider have passed a first aid course from accredited locations.

# Glossary

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| --- | --- |
| **Acronyms** | **Definition** |
| **Monqez** | **It is the first aider (helper) that arrives to help the person calling for help.** |
| **IDE** | **Integrated Development Environment is a software application that provides comprehensive facilities to computer programmers for software development.** |
| **API** | **Application Programming Interface is a computing interface which defines interactions between multiple software intermediaries.** |
| **MVC** | **MVC is architectural pattern which stands for Model, View, and Controller. MVC separates an application into three components - Model, View, and Controller.** |

# General knowledge about the domain

**On April 12, 2010, the guardian newspaper mentioned that over 150,000 deaths could have been saved if the right first aids have been applied to them. The University of Manchester reported that 59% of deaths that occurred before arriving to the hospital could have been saved. Hence the idea of "Monqez".**

**The normal user makes a request when him or others around him are in need for first aids. The normal user provides his address in our system either manually or using his current location so the system matches him with the nearest available first-aider to come to the site and perform the first-aid.**

# Customers and users

## Administrator

**The administrator reviews all the helpers’ applications and has the authority to ban any the violates the application rules or make anything unethical**.

## Monqez

**A certified first-aider that donates his free time by helping people in need by fulfilling their requests and saving their lives.**

## Normal User

**Any person facing medical trouble thus needing first-aid performed on him or his people around him.**

# The environment

## Integrated development environment (IDE)

**Intellij**

**Android Studio**

**Visual Studio**

## Plugins

**ASP.Net MVC**

**Firebase**

**Dart & Flutter plugins**

## Programming Languages

**Flutter**

**C#**

**JavaScript**

**PHP**

## External APIs

**Google Maps – https://pub.dev/packages/google\_maps\_flutter**

**Firebase - https://pub.dev/packages/firebase**

**Simple Permission - https://pub.dev/packages/simple\_permissions**

**VoIP API (voice and video calls)**

# Competing software

**New Zealand Red Cross First Aid**

* **It contains step-by-step instructions for many emergencies, including CPR, what to do about a burn injury, and many other medical emergencies like heart attacks, open wounds, and more.**
* **Doesn't send medic**

**The E-Medic (المسعف الالكترونى)**

* The application allows receiving any new communication, as well as accepting or canceling the report, drawing the best paths to the location of the report and determining it, recording all notes on it, as well as receiving any amendment to the report from the operating room so that the operating room is aware of the emergency teams and following them on an ongoing basis.
* The application also allows emergency teams to communicate emergency cases with hospitals and choose the most appropriate hospital for the case.
* He does not send a paramedic to do first aid, rather he sends an ambulance.