



**HELPMed360 Project**  
**FOR EVERYBODY, EVERYWHERE...**  
Safeguard, Safety and Health



## HELPmed360 Project

Designed by Angelo Adorante and created with his two partners of the Engineering Company LAB S.r.l. (Liberato Granata and Bruno De Laurentiis) and the valid support of a professional with proven experience in the IT and Start-Up (Loris Giannantonio)



The LAB S.r.l. company, with the HELPmed360 Project, was the winner of the National Award "Campioni di InnovAzioni PMI 2019" in the National Contest of Confindustria Chieti Pescara



*I have spent a lot of my time, on this challenging project, mostly during the night, without sleeping to not deprive my family and my job of my time I have encountered a lot of difficulties during the writing of this project and I am fully aware I will need to face many more but, I am ready to do it with determination because I firmly believe it can become a tool able to guarantee the Safeguard, the Safety and the Health of everybody.*

*...FOR EVERYONE, EVERYWHERE ...*

*Enjoy your reading  
Angelo Adorante*



## INTRODUCTION

**This Project was born from the Angelo Adorante's idea** while he was strongly involved in his mother medical treatments from 2016 to today

Since the beginning, due to the difficulties faced, mainly related to the change of different hospitals, with the consequent need to **manage all the clinical information**, it was soon clear that an accurate collection of the diagnostic reports and a constant updating could facilitate communication with the specialists and promote **a more rapid and effective medical history**.

The method of classifying applied during this experience had immediately an excellent response from the doctors; they were involved in a new way of conceiving the relationship and the approach doctor/patient.

He attended every medical control with his mother, he always tried to gather new ideas and practical suggestions given by the experts themselves, in order to optimize the development of his project and make the diagnostic activity of the doctors quicker, more punctual and more effective

Soon after the idea became an **ambitious project, earmarked for individuals, companies, Army and more generally for all the Organization** with the aim of developing a product that not only allows accurate storage and control of diagnoses and personal medical assessments (medical reports, clinical examinations, video of CAT and RX photos) but an instrument **aimed to the safety of everyone**.



The idea immediately found the enthusiasm and support of the two partners of the creator, Liberato Granata and Bruno De Laurentiis, owners of LAB s.r.l. ([www.labengineering.it](http://www.labengineering.it)), an multidisciplinary engineering company based in Ortona, (Chieti, ITALY)

The three partners, strengthened by their collaboration based on over fifteen years of successful projects and activities , worked to realize this Project, involving a professional with proven experience in the IT and Start Up, Loris Giannantonio.

Together, driven by great civic-minds and involving other experts operating in Italy and abroad from different fields (medical, industrial, legal, military and information technology) they began to structure the project based on the development of an App that could be **committed to Organizations**, as a valid aid to safety management of every individual, both as a citizen and civilian or military worker.

Finally in January 2018 HELPmed360 was created; a reliable and easy-to-use tool, structured to be a **360° "AID" for the patient, the medical staff, Police and Companies**.

A project that was born to improve and safeguard the life of everyone through an APP.

The HELPmed360 APP, in this era of digital transition, with its multiple functions is proposed as **a space for digitization, collection and exchange** of all the information that each individual, **in complete autonomy and under his own responsibility**, will consider to make available to the organizations and / or the companies or armed forces.

The APP can be used to safeguard health in the event of sudden illness and / or in case of emergency.



## TARGETS

HELPmed360's objective is to become an easy-to-use electronic platform for anyone, manageable both by APP and WEB, **active 24 hours a day**, 7 days a week, 365 days a year.

All users will be offered countless opportunities to use it, all modular according to their needs. Below are some examples of what the APP will allow its users:

- ✓ Always have your medical and health information with you to share with anyone (public and private medical and paramedical staff, police, family members, friends, etc.).
- ✓ To guide the patient in the management of medication, remembering the time and type of medicine to be taken.
- ✓ Check your health conditions through devices that talk within the same App.
- ✓ Send alarms for help request to pre-set telephone numbers in dangerous situations with the chance of being located.
- ✓ Notify the presence of a child left alone in the car through devices that talk with the same App.

In order to simplify the process of communication and sharing of Medical Reports, at the time of registration to the service, both from WEB and APP, **an e-mail will be generated for each individual user.**

This e-mail will be composed, for Italian users, by its **tax code number** with extension @ [helpmed360.info](mailto:helpmed360.info) while for foreign users will be composed of their equivalent tax code (eg for US citizens their "Social Security Number", for the English citizens their "National Insurance Number", for the Albanian citizens their "Kod fiskal" and so on), always **with extension @ helpmed360.info.**

With an e-mail address like that, simple, univocal and direct, any chemical analytical laboratory and / or medical clinic can send, without making mistakes, the medical reports to the user who, in real time, if they find them loaded directly and in automatic on your APP and on your WEB space.

In order to simplifying the communication and sharing process ("interoperability" process), users can open an **access window** in their account by sharing a password with the doctor they will visit **for a limited time.**

With this system the doctor, even working from home, will have the time (potentially decided by the user) to outline a first clinical picture and / or get an idea about the patient's health, managing to **optimize the time of the visit** and perhaps suggest, in advance, any further diagnostic tests to be carried out before the day of medical check. In this way, the doctor will be able to make a diagnosis on the same day.



The APP will also allow the **management of medical / clinical files of multiple users.**

Specifically, a parent will be able to manage a minor's child's file taking responsibility and / or, in the same way, a son can do the same for a parent who is not able to manage, through APP and WEB, his personal account.

In the case of management of non-clinical medical records, it will always be necessary and mandatory to take responsibility for the processing of data of the person whose account will be managed.

Among its objectives of HELPmed360 has to support companies and police forces in safeguarding their staff thanks to the help of specific devices.

Among the various devices that can be linked to the APP there is one in particular, which lends itself very well to use in the workplace and in particular to those workers who work alone (civil and military) without surveillance, without a direct interrelation or without the close presence of other people.

This device is a particular watch that can detect, in addition to the heartbeat, also the amount of oxygen present in the blood; wearing it, if the worker has an illness the watch would detect it and talking via Bluetooth with the APP, would send an automatic alarm call to the pre-set emergency numbers, also providing the position, due to the superior security interest (cited above Privacy).

In the same way, you can locate all those users who, with their prior consent, may be victims of sudden tragic events such as natural disasters (earthquakes, hurricanes, etc.), collapses (buildings, bridges, etc.) or believe they are in danger in transfers and / or missions in war zones.

In addition, through a **Domotics Project that can be managed and managed by the APP** itself (customized ad hoc option), in case of alarm and / or request for assistance, it is possible to remotely open access points for rescuers to Institutional, industrial and / or sites. or generally closed rooms.

**HELPmed360 will also have a PET section** for medical / veterinary management that will allow the storage of all the medical / veterinary documentation of our pets in a simple, quick and effective way. This section will also be equipped with various alarms and notifications to remember, for example possible visits, dosage of medications and recalls of vaccines.



## BENEFITS

**HELPmed360**, is a **multipurpose tool** able to offer various services.

Its use will vary from the daily use, (for example: to remind the User medical appointments and medication to be taken during the course of therapy) to a less frequent use, for example, to remind a visit to specialists that require the sharing of historical data

The APP will have preloaded the **pharmaceutical reference of the Drugs Data Bank** in each country which will facilitate to all the users the input of the medication prescribed in your therapy; once the medication has been identified and selected, it will be possible to insert the dose and the time in which to take it.

The APP, once all the medication data are loaded (dosage and time) will notify the user what he should do

The user can also **combine the acoustic alarm with a visual one** that will allow you to view, on your device, the image of the medication to be taken.

The user can take a photo of the medication within the APP and this can **simplify the exact dosage even the most problematic subjects**.

Each user, at the time of subscription to this service will receive a unique QR code that can be printed on plain paper or adhesive paper or silk screening of metals, resins etc.

For example, you can create a pendant to be applied on the backpack of your children's school or on a necklace or bracelet, up to the keychain of your car / motorcycle or the sticker with permanent print to apply on the helmet or car on which we usually travel.



This **QR Code** could be a real **life-saver** if the user is involved in an accident and in case of loss of consciousness.

In this case, anyone should be the first to intervene on the spot (both a civilian and an operator belonging to the Police Forces) can scan the victim's QR Code acquiring information on both his identity and any medical information he may share and / or transfer to health care workers. The reading of the QR code can be done either through the reader of the same APP, default preloaded, and from any other QR Code reading program.

To use this service, during registration, the user will be asked to indicate the information he wants to show to whom he should scan his QR Code. The choice of information readable by others will be customizable and variable at any time.





The system will allow to enter a name, surname, tax code, height, weight, photos of the face, blood group, any allergies to medication, life-saving drugs, if you are pregnant, if you are diabetic and the phone number and name, of a person to be notified in case of need/emergency.

**In addition, other information can be uploaded**, such as vaccines, food intolerances, major diseases, hospitalizations, surgical procedures, traumas during the entire life cycle, diseases and description of particular signs (scars, birthmarks, tattoos), consent or refusal to donate organs and tissues etc. In addition, **various programs will be preloaded inside**, such as the control of the menstrual cycle, fertility, and physical activity performed daily.

Another aspect of great utility is that the APP will have a **life-saving alarm**.

In fact, in case of sudden illness, the user with two simple typing (Activation and Confirmation), through a dedicated icon can send a request for help to another user

This option will also allow you to send your position through the **geolocation service** provided with the APP in order to allow you to be reached immediately by the trusted person who, at the same time, can notify the rescuers if there are no more traces of a registered user of the program, the persons previously authorized by the same could go back to his last position and communicate them to the competent Authorities.



# SECURITY MECHANISMS

The HELPmed360 APP, for its structuring process and even more for the matching devices, is similar to a real security tool and therefore could be categorized between personal protection devices (PPD) and collective protection devices (CPD).

Its design will pay close attention to the **protection of personal data** of its users, implementing a considerable number of security mechanisms that go far beyond those provided for by specific regulations on the processing of sensitive data and the **EU Regulation 2016/679**, better known as **GDPR** (General Data Protection Regulation).

In this regard, HELPmed360, in order to protect the personal data and privacy of its users, will constantly perform vulnerability tests on the entire system in order to protect it from cyber-attacks and avoid improper use.

The hardware and software components of the HELPmed360 system will be redundant and installed on redundant hardware and software systems. This ensures the high reliability and availability of the system so that it can operate 24 hours a day, 7 days a week, 365 days a year.

Furthermore, on the HELPmed360 system, two types of authentication will be provided for each user, both considered **strong authentication systems**.

Access to your account will be allowed only and exclusively through two of the three choices that can be made between: password, double password and / or the fastest and most unique Fingerprint (fingerprint).

# AUTHENTICITY



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### TITOLO:

PROGETTO HELPMED360 E SVILUPPO APP

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Si attesta l'avvenuto deposito dell'opera in oggetto, accettato ai sensi dell'art. 67 lett. b) del Regolamento della SIAE e alle condizioni previste per l'espletamento del servizio riportato in calce. Il deposito, contrassegnato dal n. 2018001691 di repertorio, decorre dal 28/06/2018 con scadenza il 27/06/2023



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