

# TRACKING SYSTEM FOR MEDICAL EQUIPMENT

Innovative solution for misplaced tools and medical devices in hospital premises.

Mastery in  
Software  
Engineering

**FORTECH.**  
a GlobalLogic company



## Key Facts

 Industry: Healthcare

 Team Size: 4 People

 Duration: 2 Months

 Technologies:

Android, Java

 Services:

- Software Architecture
- DevOps
- Software Development
- Software Testing
- Business Analysis
- UI/UX
- Project Management

 Trends:

Machine Learning

## Highlights

- Latest Java technologies and machine learning techniques for a high-tech product.
- Flexible architecture adapted to any NFC tag/hardware manufacturer.
- Technical solution easy to implement for multiple end-users and replicate in other industries than healthcare.





## Solution

The solution is an MVP designed for hospitals looking to improve their asset management system.

Two things were considered essential for the project's success: an intuitive interface - easy to use by the medical and maintenance staff, and a fail-safe system build to minimize risks in case of errors.

The solution, consisting of a mobile application and a web interface, allows staff to:

- Register the location of medical devices and other assets used in the care center
- Find out the real-time location of every registered device
- Measure, monitor, and analyze equipment utilization
- Set up the infrastructure.

## Collaboration

Our client is a key player in the wearable technology market, aiming to embody innovative tech into its products and set higher standards for the RFID/NFC industry.

Equipped with the right design and engineering capabilities, the dedicated software development team at Fortech brought a great product concept to life.

By relying on multiple brainstorming sessions within the team, close collaboration, and weekly syncs with the client, our team contributed to an MVP that was delivered fast.

Due to the experience gained in other similar international projects, our highly skilled engineers had full ownership in defining and implementing the architecture and DevOps aspects of the solution. Furthermore, they focused on designing the user-facing mobile application and developing new functionalities for the back-end.

As for the future, the plans are to extend the solution to serve more than one facility care on a multitenancy cloud architecture.

## Client Benefits

 **KNOWLEDGEABLE TEAM**  
Team with strong technical capabilities and 8 years average hands-on experience in software development

 **ACCELERATED TIME TO MARKET**  
Rapid prototyping – multiple iterations generated in a timeframe of 2 months

 **INNOVATION**  
Machine learning techniques applied to enhance product capabilities



# ABOUT FORTECH

Fortech is a top Romanian software development company headquartered in Cluj-Napoca. With a workforce of 1150+ people, Fortech has been repeatedly recognized by Deloitte, IAOP®, EY, and Forbes for its fast-growing, entrepreneurial journey.

With expertise and a strategic focus across healthcare, financial services, automotive sectors, and more, we cover the end-to-end software life cycle development to deliver the innovation, scalability, quality and speed our clients need.

Our approach to software engineering combines strong technology and process know-how, Agile delivery methods, and a blend of code quality practices and metrics refined in almost two decades. Since 2003, over two hundred fifty clients chose Fortech as their tech partner.

Access our expertise: [www.fortech.ro](http://www.fortech.ro).

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