

# IOT PLATFORM FOR HEALTHCARE FACILITIES



Mastery in  
Software  
Engineering

**FORTECH.**



## Key Facts



Industry: Healthcare



Team Size: 12 People



Duration: 2+ Years (Ongoing)



Technologies:

React, Typescript

Java Spring

PostgreSQL, MongoDB

AWS Cloud



Services:

Software Development

Maintenance & Support

## Highlights

- The application helps hospitals, nursing homes, and clinics to manage residents and caregivers, using real time location technology and IoT badges.
- Fortech implemented a custom solution for the integrated messaging chat.

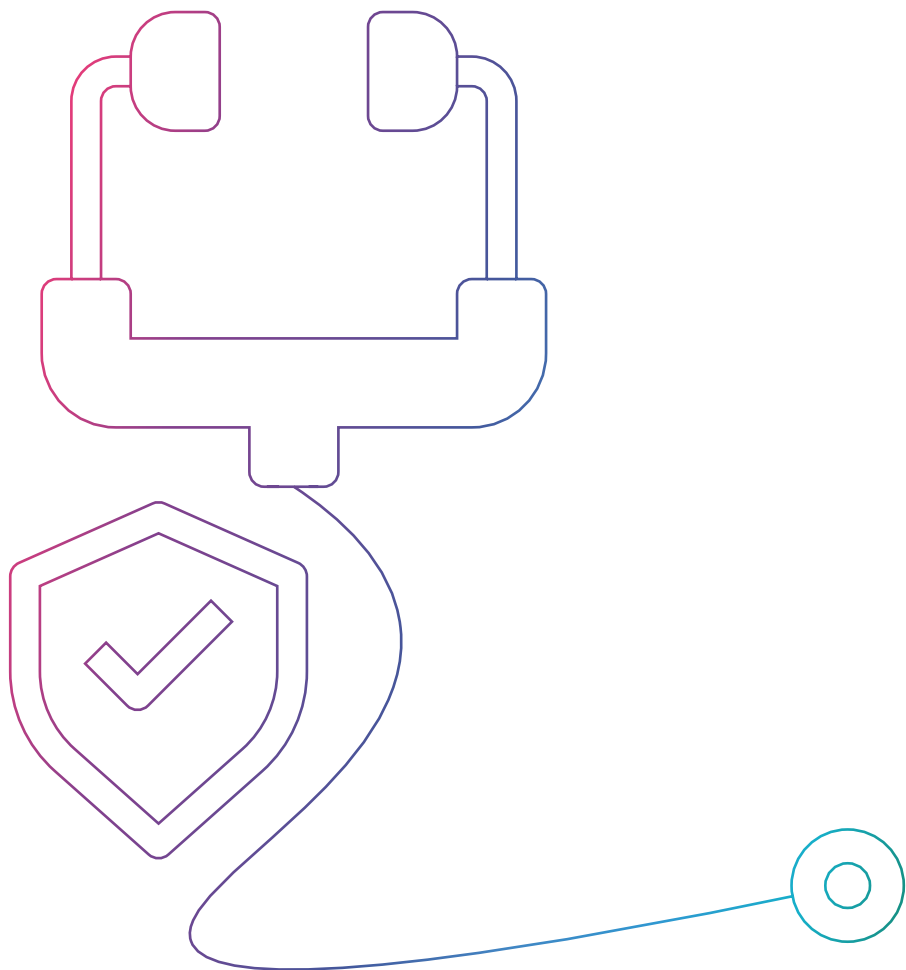


# Project Goals

Our client’s objective was to build an MVP that tracked the location of caregivers and residents of healthcare facilities using an IoT device.

The primary platform features were:

- an administrative dashboard that included vital information such as blood pressure and temperature
- the ability to configure facilities (wards, devices, rooms, etc.) and manage schedules for caregivers.



# Solution

We began with a proof of concept to tackle the most significant challenge: real-time location tracking. Our client knew the degree of difficulty in developing reliable and fast running tracking technology.

Using our previous experience with IoT and real-time technologies, we developed a custom tracking system that can scale to thousands of concurrent participants.

Because of this project's fast-paced nature, we ran an Agile Scrum process with two-week sprints and minor releases at the end of each sprint. Requirements were managed by a Fortech project manager and business analyst, using JIRA. Our team started small and gradually grew to a setup of two front-end developers, seven back-end developers, three software testers, three mobile developers, and one IoT developer.

The application also included an audio and video integrated chat. For the audio/video part, we've used JITSI, an open-source set of video conferencing technologies, and for the chat messaging feature, we implemented our solution.

# Client Benefits



## ON-TIME DELIVERY

Our client successfully launched their MVP and has acquired new customers.



## INNOVATION

Critical real-time technologies built for demanding environments of health clinics require exceptional skill and innovation.



## RELIABILITY & SUPPORT

Full technology management, implementation and support is delegated to Fortech. We continue to serve our client’s on-going platform evolution.







# ABOUT FORTECH

Fortech is a top Romanian software development company headquartered in Cluj-Napoca. With a workforce of 800 people, Fortech has been repeatedly recognized by Deloitte, 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 lifecycle 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, two hundred and twenty clients chose Fortech as their tech partner.

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

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