

## Development of a medical app prototype

„This is the first time we have worked on the development of a medical product. Strong and experienced project partners who are familiar with and take account of overarching contexts were therefore of great importance to us. In infoteam, we have found a partner who has fit seamlessly into the development team and who has guided us with great expertise through the concept phase of the medical app.“

*Markus Richter, Head of Development  
Hamberger Medical GmbH*

For our customer:

**HAMBERGER**<sup>®</sup>  
MEDICAL



Medical app pre-development | C#

App development | iOS | Android | Xamarin

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## Initial situation

- Hamberger Medical GmbH is planning to develop an ECG-enabled toilet seat, including a mobile app, as a medical device
- A consortium is formed for the overall project, including embedded hardware, embedded software and app development (infoteam Software Group)
- **Objective 1:** Checking the technical feasibility
- **Objective 2:** Project planning for the development of a standards-compliant medical app
- **Objective 3:** Prototype development for evaluation of the app by potential customers (intended users)

## Solution

- Development of a sample app for Android and iOS
- Connecting the toilet seat and app by Bluetooth for real-time transmission of 6-lead ECG data
- Presentation of the Einthoven and Goldberger limb leads
- Clarification of the technical framework conditions for the development of the medical app and its relevance to the overall project
- Planning for standards-compliant development of the medical app in accordance with IEC 62304
- Risk analysis according to ISO 14971 for medical device development



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