

Personal Health Network Solution

Analysis and consulting services to improve existing solution, led to removal of two major security threats



Java, Angular,
Microservices



\$25K



2 weeks

Challenge

The client identified a need to reevaluate the current state and capabilities of their existing app. The reevaluation needed to include all aspects of the system from the technology stack and application architecture, through the quality of implementation, to the hosting and operational support.

The main goal was to determine whether the system is optimal and to identify potential points of improvements both regarding the quality but also regarding the cost and efficiency of the hosting and the operational support.

Solution

We reviewed and evaluated the following areas of the system: Application architecture; Technology stack; Code base; Hosting configuration; Operations including the development and deployment processes.

Deliverables at the end of the engagement were:

1. A document presenting the results of the conducted analysis.
2. Proposal for the upgrade of the existing solution, that would improve the overall system, making it more scalable and significantly reduce maintenance cost.

Benefits

We recognized major security threats in using deprecated version of framework for frontend, as well as retired components in the backend service architecture, offering a solution as to how to improve the security but also migrate to a better system architecture that would allow better scalability.

We constructed a proposal on how to allow an unimpeded implementation of the new solution with full velocity while still having the current solution in limited KLO mode, with only critical updates applied to it.

We recommended adopting microservice architecture for easier horizontal scaling and better development experience and process scaling.
