CASE STUDY

Web Portal & Micro-Service Development

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Project Overview

The objective of this project to create a web application and Micro Services that will provide platform for doctor and patient to monitor their health related data and analyses it.

About The Client

The client is one of the leading healthcare organization

Case Survey

Clients required the following:

- To create a web application and MicroServices that will provide platform for doctor and patient to monitor their health related data and analyses it.
- Doctor can create rules for patients and create report for various readings

Technology

![Web Portal](image1)
![Micro Service](image2)
![Database](image3)
Detailed Flow

Our Solution
- Development of Angular based Web Portal & NodeJS based MicroServices –
  - Angular SPA as frontend for doctor and patients supported by micro service in backend.
  - KOAJS framework for NodeJS
  - Typescript in frontend as well as in Backend
  - Fitbit Integration
- Notifications
  - Notification via Amazon SNS
- WebRTC
  - Jitsi meet with heavy customization for web conferencing setup between patient and doctor.

Business Benefits Delivered
- Continuous availability of real time data over screens from multiple devices for the patient.
- Rule based emergency situation handling and suggestions based on patient datasets.
- Two way connectivity via web conferencing with registered doctor based on health parameters being loaded.
- Overall health data maintenance – day to day readings, improvements, suggestions provided.
- Dashboard for patients and doctors highlight current device inputs, trend over time, historical situations/suggestions etc.
- Remote based application access for convenience.

About InterraIT
InterraIT is a global IT consulting & services company providing business software solutions that improve operational efficiencies, address organization’s unique business needs, and manage information at lower TCO & faster ROI. Established in 1996 & headquartered in San Jose, InterraIT is an ISO 9001-2015 SEI-CMM level 5 assessed and certified organization with world class delivery.