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CANET HEALTHCARE PLATFORM

CANet

"VIRTUES is a Virtual Integrated Reliable Transformative User-driven E-health System" designed and developed by the Cardiac Arrhythmia Network of Canada (CANet) in cooperation with an interdisciplinary team of researchers, clinicians, patients and external partners.

Challenge

CANet was in need of building a robust platform for patients, supervisors and researchers. The aim of the platform was to improve patients' engagement and communication with a wide spectrum of health care practitioners.

The project included mobile application development for patients on both iOS and Android platforms as well as creating a web-based application for researchers.

Solution

At the project estimate stage, it was agreed that the mobile application would be built using **React Native framework,** which will allow us to speed up the mobile application development by providing native mobile applications for Android & IOS using the same code base.

For creating a researcher application, **ReactJS** was selected as the most suitable technology.

After the choice of technologies was made, we collected all the needed data, listed all the requirements meticulously, and started the process of development.

It took us 2 months using 13 person-months to implement the project successfully.

Key features

IOS & Android application:

- collecting information about patient's health status with a detailed breakdown of already used medicines;
- providing notifications to the patient on the goals/targets of the research;
- letting patients read articles thoroughly prepared by the researchers.

Researcher web application:

- patient's clinical data overview;
- communication channels with patients;
- integration with FHIR-compliant data storage SMILE.

Profit

- mobile application allowed patients track their progress in communication with their supervisors;
- a researcher got the ability of getting accurate results of patient's progress using the web application;
- implementation of this solution led to more productive cooperation between patients and researchers.

Technologies

React Native

ReactJS

Node.JS

Smile on FHIR