



**A novel, cost effective
pain assessment tool that
detects facial expressions
using iFusion™**

Client Need

The client, a healthcare provider, needed an application that could enable doctors to assess pain and provide better treatment for dementia patients.

What We Did

Developed a mobile app which utilizes facial recognition technology to detect micro expressions which are indicative of presence of pain and combined them with non-facial cues to automatically calculate a pain severity score using iFusion™ platform.

Solution Highlights



Single point of care app

Developed iOS based mobile application using Swift3 and designed CoreData models to ensure the application works well with the server database



Multi-way sync mechanism

Synced patient data between multiple mobiles and the server to ensure that the data is complete and consistent for assessment



Offline data synchronization

Stored patient data offline when there is no internet connection and synced the data with the server once the connection is active to ensure that app works seamlessly in the background

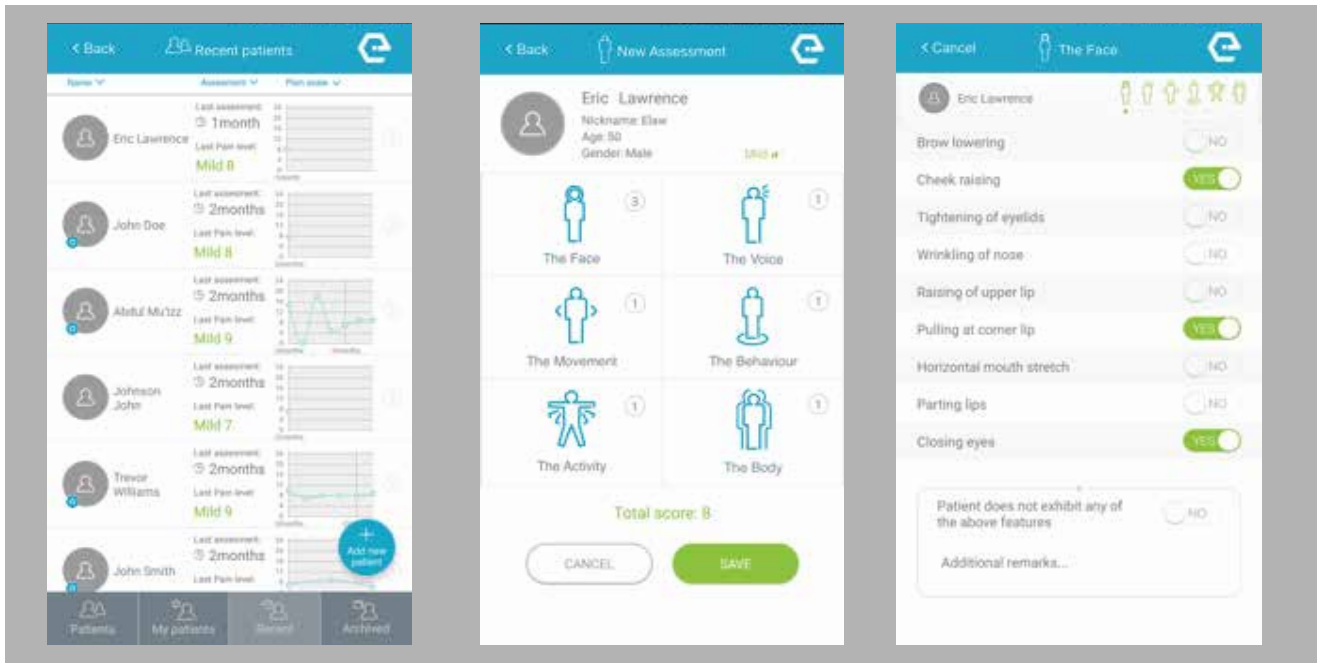


Insightful data visualizations

Developed analysis and graphs of the patients' pain history thereby enabling doctors with all the required information to provide treatment

What the Client Gained

- Ease of pain assessment process for doctors as well as patients
- Improved quality of life for dementia patients
- Enabled patients with access to care from anywhere



About Innominds

Innominds is an AI-first, platform-led digital transformation and full cycle product engineering services company headquartered in San Jose, CA. Innominds powers the Digital Next initiatives of global enterprises, software product companies, OEMs and ODMs with integrated expertise in devices and embedded engineering, software apps and product engineering, analytics and data engineering, quality engineering, and cloud and devops, security. It works with ISVs to build next-generation products, SaaSify, transform total experience, and add cognitive analytics to applications.