Patient Centric mHealth Solutions Portfolio
Personal Blood Sugar Monitoring (iGlucoCheck)

ALTEN Calsoft Labs’ iGlucoCheck application provides an effective and hassle free means by which patients can monitor their blood-sugar levels periodically anytime, anywhere using their android phones. The application connects to the Glucometer device using Bluetooth, reads the historical data from the device and pushes it to the cloud server.

Some of the prominent features of the application are

- An in-built simulator that emulates the actual Glucometer device that
  - Connects using Bluetooth
  - Reads and syncs glucometer data with the cloud server
- Intuitive graphical display of the blood-sugar values over a period of time
- Flagging of blood-sugar levels as Low, Normal and High

### Hardware Specifications

- Kinetis k53 for low power medical devices
- Power / OS JTAG Mini- B USB 2.0 Connector
- Test strip / medical connector interface
- Accelerometer, LCD, SD/MMC Interface
- Bluetooth 2.0 connectivity

### Firmware Specification

- LCD Display of blood-sugar value
- Transmits device data to android app using serial port profile
- Reading of Glucose strips by translation of electrode voltage
- Support for Android Jelly Bean 4.2
Mobile Enabled Remote Patient Care

Our cross platform (Android, iOS and Windows) based remote care delivery improves patient satisfaction by providing quality care at remote locations. The mobile application enhances productivity and efficiency of physicians with robust practice management features.

The application features are:

- Appointments viewing/management, and tracking with a color legend
- Appointment notifications based on the target handset of physician
- In-built map navigation for physicians to locate the patients quickly in case of emergency
- List of To-do tasks for physicians
- Physician profile that helps in collaborating during care delivery
Nursing Medication Chart

The iOS application enables nurses to view and update the patient vitals, charts and their records on the fly from their iPhone/iPad. The application has the following features that enable the nurses to improve the efficiency, while enhancing the patient care delivery.

The prominent features in the application are:

- Patients list with visited and yet to visit patients tagged
- View patient details and record the vitals pertaining to:
  - Temperature
  - Height & Weight
  - Heart Rate
  - Blood Sugar
  - BP
- View the patient history records and history pertaining to the vitals through intuitive graphs