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.

COMPONENTS OF THE IGLUCOCHECK

- Glucometer Device
  - Glucometer device that captures data, analyses, display and transfer to Mobile phone using Bluetooth

- Native Android Application
  - Connects to the Glucometer device using Bluetooth to read the readings from the device
  - Get device's data history and push it to the cloud server and sync with it
  - Displays the complete glucometer history data in a graphical format

- Cloud based service for improved collaboration
  - Used for storing the patients data along with the history for up to last 60 days
SOME OF THE PROMINENT FEATURES OF THE APPLICATION

- 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 SPECIFICATIONS

- 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