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Case Study

Case Study 2 : Infant Monitoring System

Scope : Monitor Temperature of Premature Infants in rural India

Highlights : Complete system implementing the following:

– Mobile Application

- Data received from the device needs to be transmitted using the underlying network [GSM/GPRS/3G]

– Cloud infrastructure

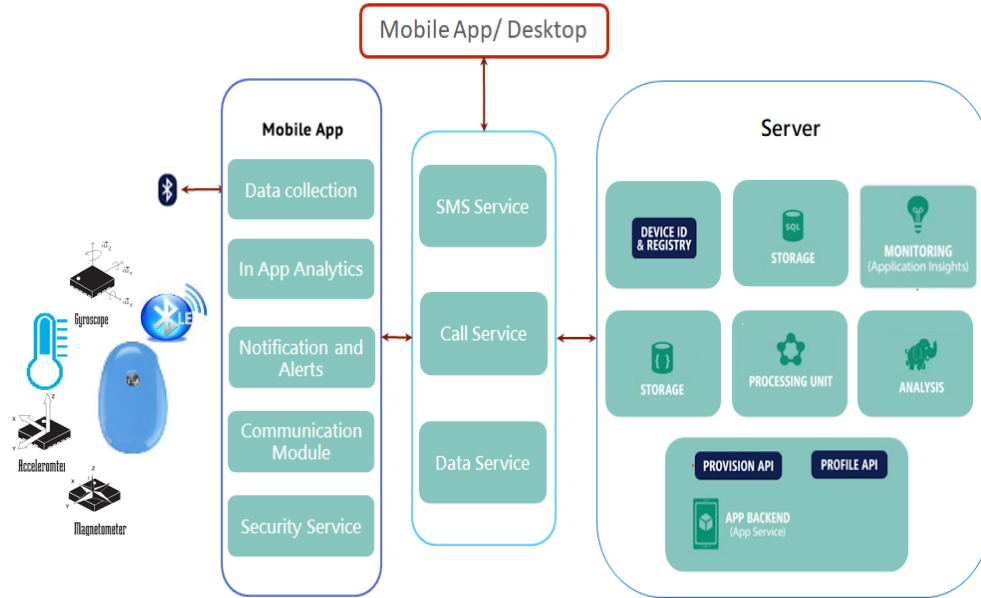
- Reliably & Securely transmit the data to Cloud
- Provision for scalability. System should be scalable and the underlying infra structure should be able to support the additional load in future.

– Data Analytics

- Support for Data analytics in the mobile device. For any critical feedback the algorithm should be able to give feedback mechanism via video and audio.
- Support for Data analytics at the cloud. Based on the data received the algorithm provides a feedback mechanism and also triggers secondary notifications to the concerned.

– Device Firmware

- Develop firmware for the device which includes temperature, accelerometer, gyro meter, magnetometer, touch sensitivity and battery voltage
- Design and develop communication over BLE interface
- Simple encryption of the data being sent on BLE
- Periodic capture of events





THANK YOU



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