

CASE STUDY

IOT Based Temperature Monitoring

Client Objective

To track and view real time temperature and humidity for critical business area such as server rooms, manufacturing houses, etc. on **web and mobile app** along with specific alerts and analytics.

SOLUTION

01

Reliable Monitoring System

Efficiency of a data center depends upon its maximum availability (zero downtime) and security which in turns helps in continuous business operations.

02

Temperature Monitoring System

IDS developed a temperature monitoring system (using **Arduino microcontroller kit**) which will monitor and track real time data center environmental conditions at preset intervals

03

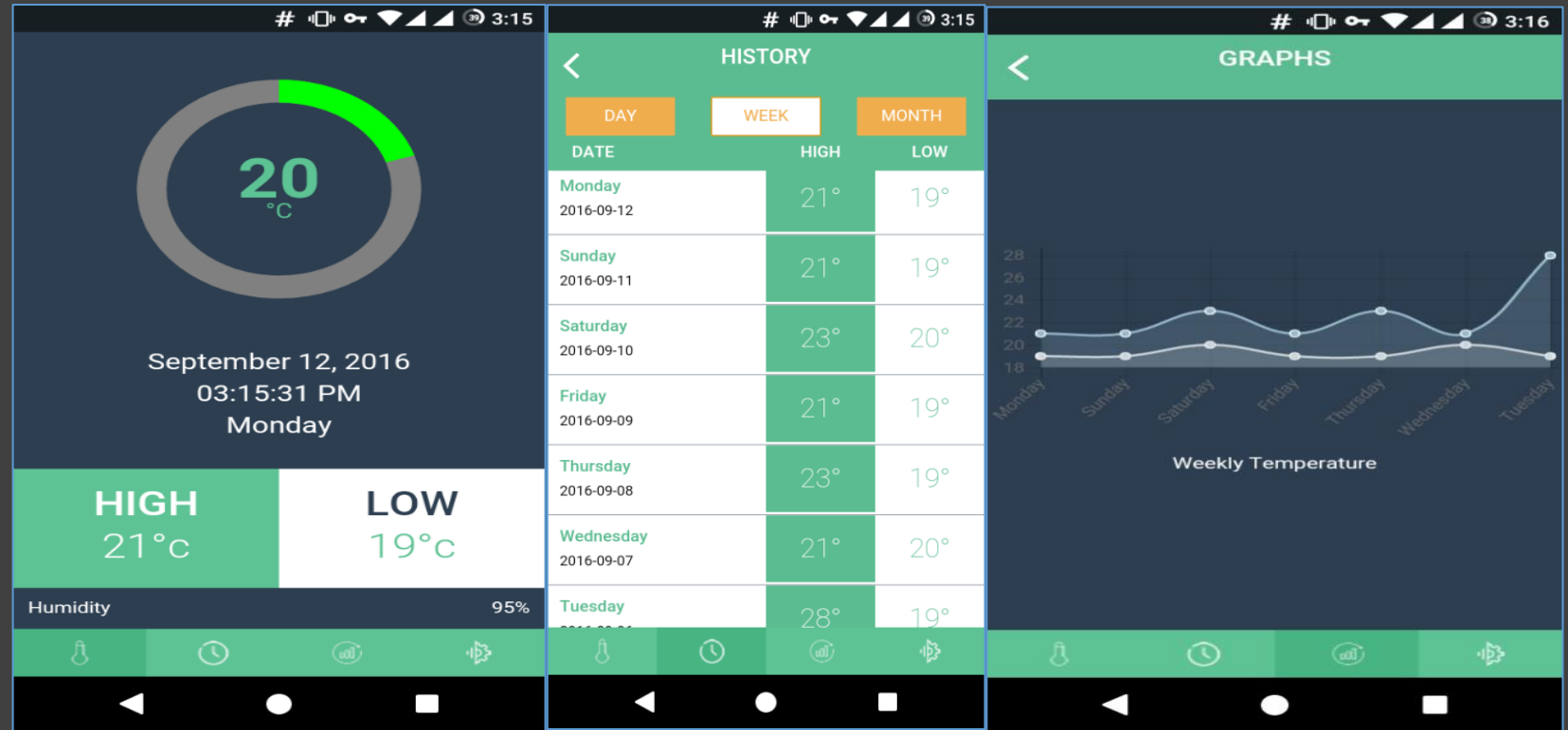
Tracking System

The monitoring application allow server admin/user to view and track real time temperature and humidity anytime and anywhere on any mobile device

04

Decision Suggestion

Furthermore, we assessed the cash flow impact of the planning, and help inform the decision-making process.



TECHNOLOGIES

- Web App: MS Azure Cloud, Arduino, MySQL, PhoneGap and PHP Scripting
- Android App: Core Java, PhoneGap Framework, SQLite3, JS, CSS3 and HTML5
- IOS App: Objective C, PhoneGap Framework, SQLite3, JS, CSS3 and HTML5

VALUE TO THE CLIENT

- Easy monitoring of real time temperature and humidity from anywhere, anytime.
- data captured is used to perform analysis to understand trends in temperature behavior with respect to set threshold limits and draw conclusions for cost effective operations.
- App helps in taking immediate action by admin/support team to take necessary remedies.