

The logo consists of the letters 'S' and 'G' in a bold, red, sans-serif font. The 'S' and 'G' are connected, with the 'G' having a small gap at the bottom.The logo features the word 'GO' in a green, sans-serif font, with a green leaf icon integrated into the letter 'O'. Below 'GO' is the word 'GREEN' in a smaller, green, sans-serif font.

“The 20 Degree Rule”

Project Community



Gunasekaran ClaraNancy

nancy2010raj@gmail.com



Gouru Manasa

manasagouru@gmail.com



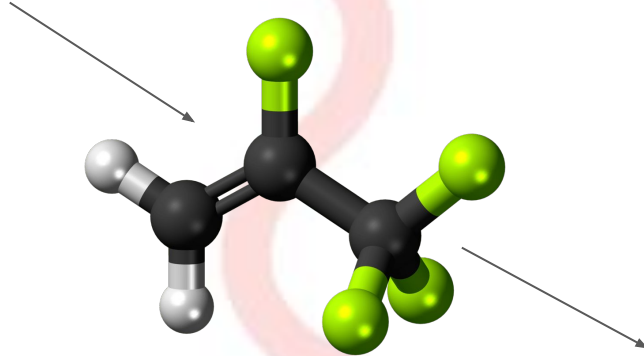
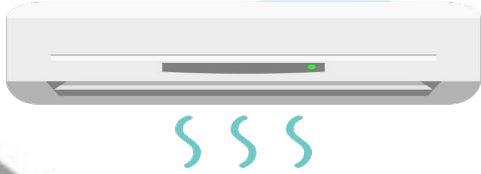
Vimal Karthik

vimalkarthiksg@gmail.com

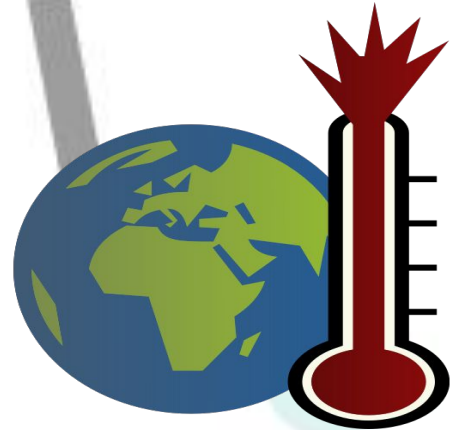


Why are we here ?

Air Conditioner Pollution



**Hydrofluorocarbon (HFC)
&
CO₂**



Our Core Objective

- Individual responsibility (Public Awareness)
 - 20-degree rule (Enforcing Rule)
- Optimum Temperature (Auto Implementation)

Technical Solution

Application Front End



<HTML>



Bootstrap



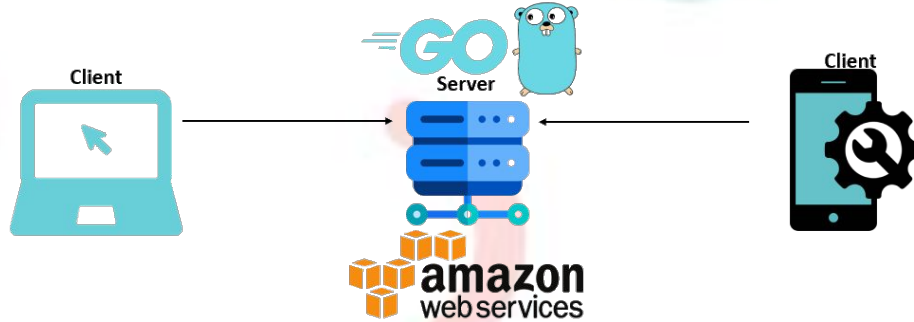
CSS:



JS



Client - Server



- Host: AWS (EC2)
- Backend : GoLang
- Database: MySQL (Docker Container)
- Temperature Module : DHT11 (Connected to Raspberry Pi)
- Location based Temperature (Open Weather Api)

Admin Login

Sg-GogreenLTE

Sign in to start your session



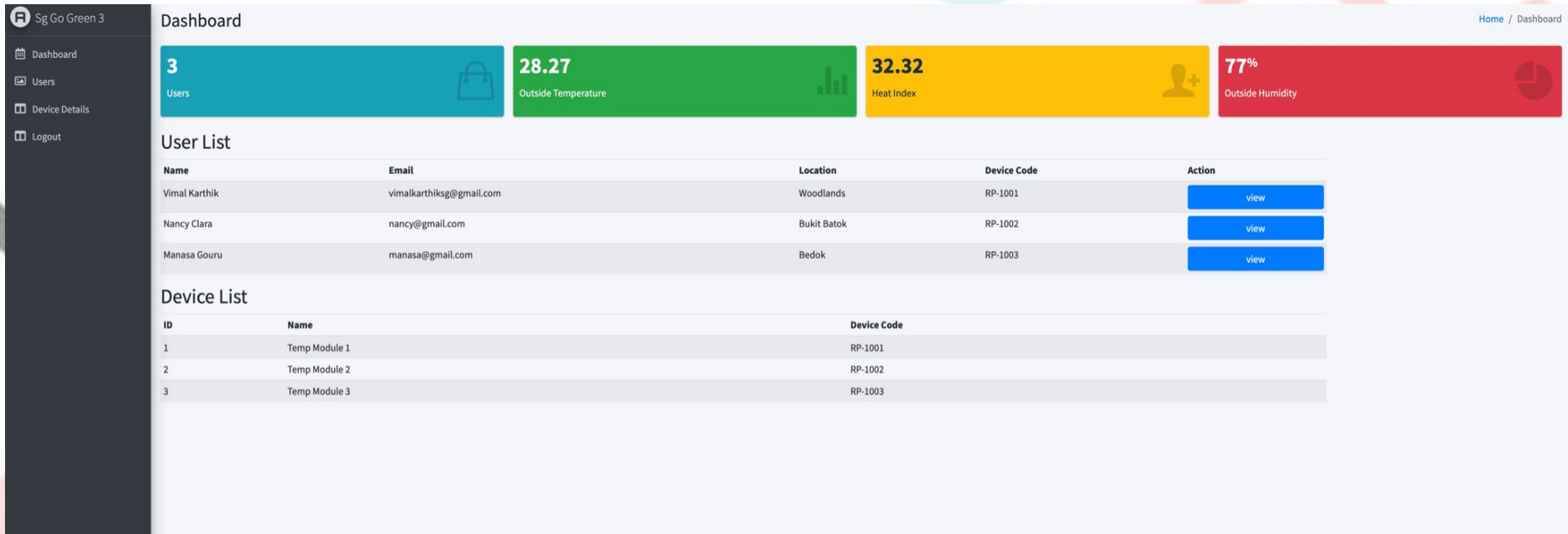
Sign In

Access Url : <http://sggogreen.com:4000/>

Email : admin@gmail.com

Password : password

Admin Dashboard

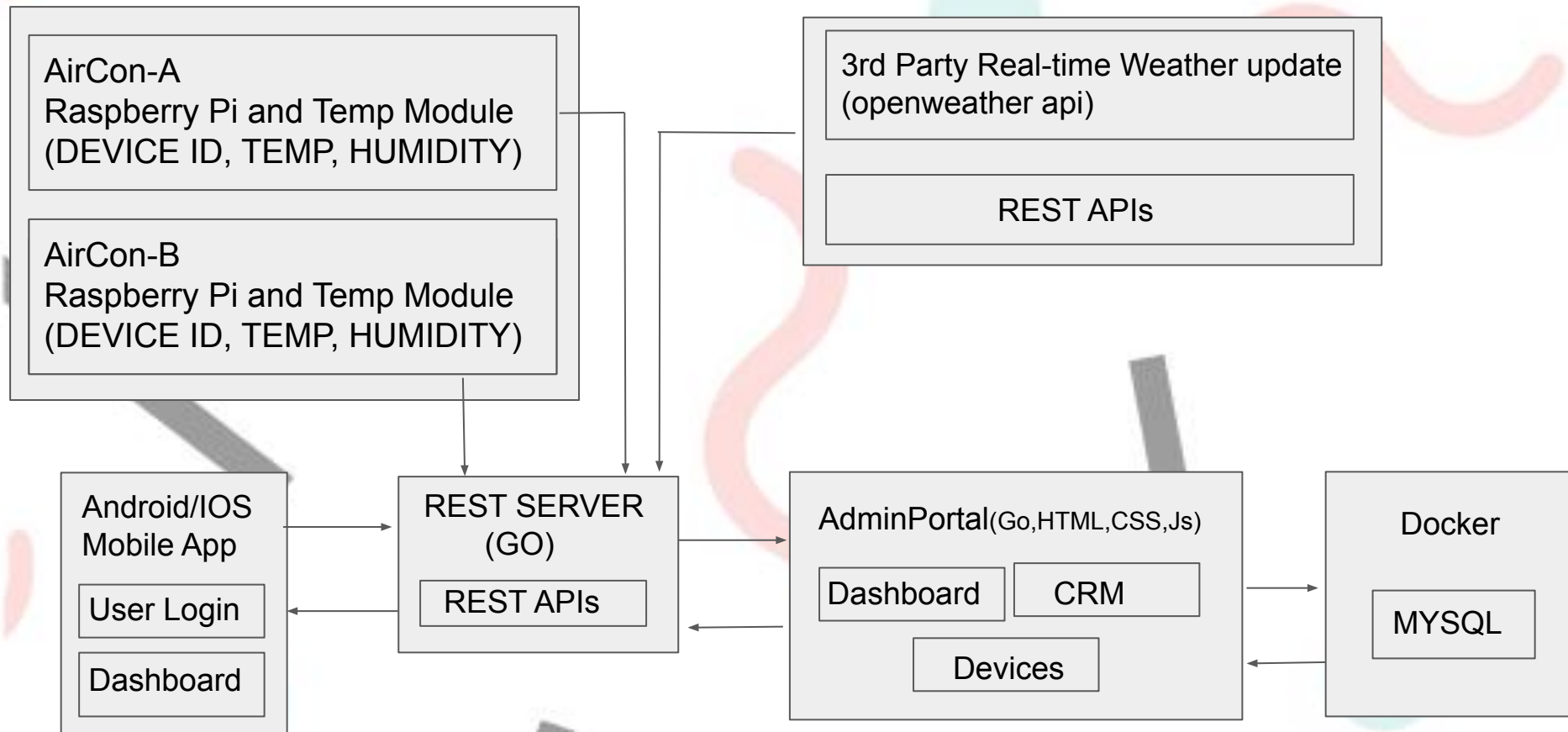


Admin Dashboard: A widget view (Current Temperature, Humidity, Heat Index etc)

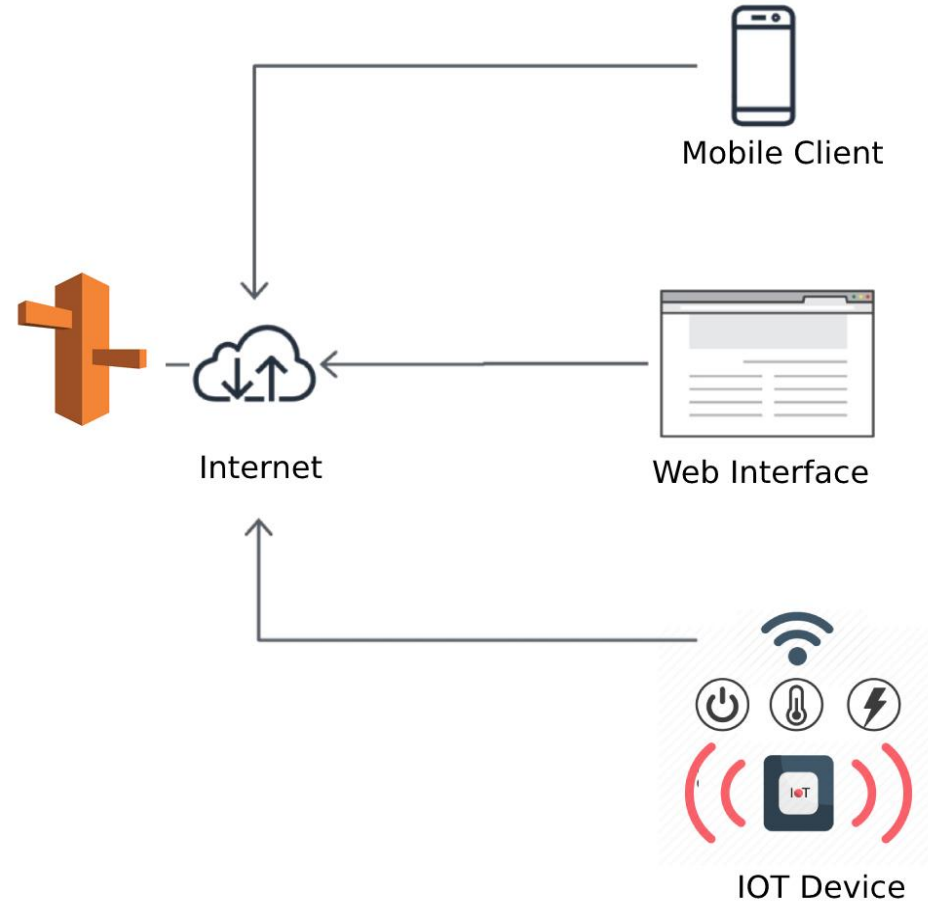
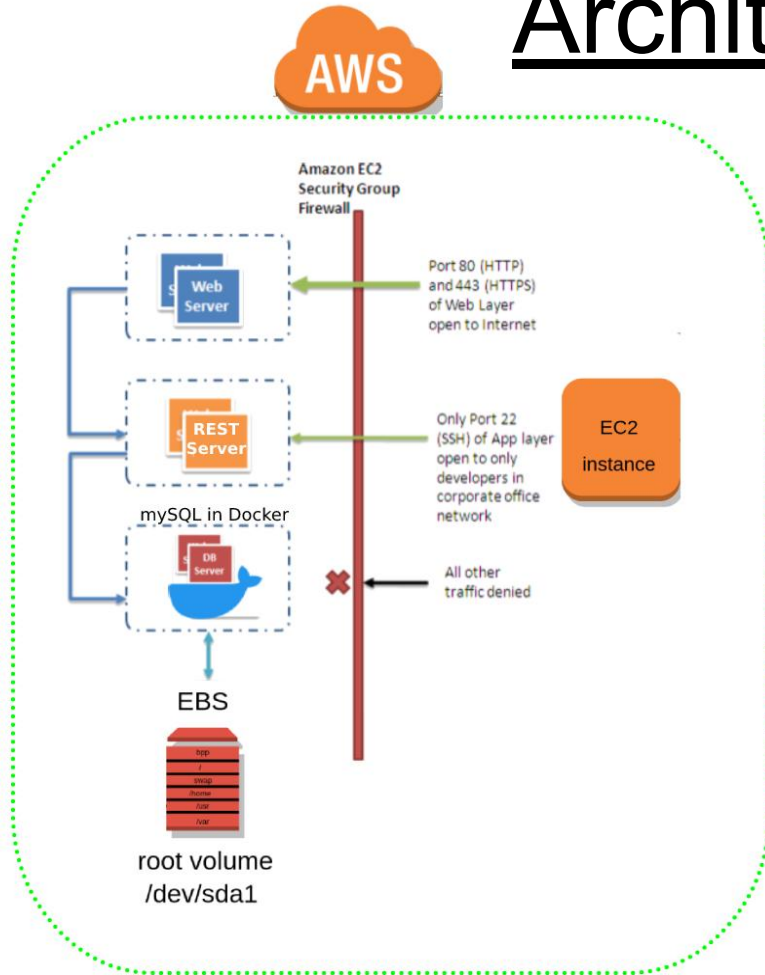


What we have done ?

System Design



Architecture



Web Application Features

Web Application

Access Url : <http://sggogreen.com:4000/>

Admin Login:

Email: admin@gmail.com

Password: password

Features

User Section: List of All Users Signed Up (CRUD Operations)

Devices Section: List all the Devices been added (CRUD Operations)

Application Advancements

- Implementation of GCM
- Data Security & Advance Data Analytics
- Device Packaging
- Device Integration with Application (QR-Code/Barcode)

Application Features (conti...)

Rest Server

Access Url : <http://sggogreen.com:3000/>

API Calls (Mobile Application)

GET : (Outside)

Open Weather Apis {{Temperature, Humidity, Heat Index}}

POST : (On premise)

User Sign Up {{First Name, Last Name, Email etc...}}

User Sign In {{Email, Password, Api Key}}

Active Readings {{Temperature, Humidity, Heat Index}}

- Outside readings based on User Location (*latitude n Longitude)

Application Limitations

- Establishment of communication to IoT device
- Advance Data analytics and wrangling



THANK YOU :)