Objective

Sterling and Wilson Pvt. Ltd. is an EPC solution provider in the infrastructure and energy space in India and overseas. IAQURE (Indoor Air Quality Analyzer) application provides a dashboard to get a quick glance at devices provided by Sterling Wilson, health of the devices and provides alerts for the same.

Scope

- Design and implement management systems for: -
  - Users
  - Clients
  - Devices
- Read real time data (every minute) from the devices configured at different locations.
- Each device notes the reading for pollutants like CO_2, Humidity, Formaldehyde, Particulate matter, VOC etc.
- User friendly Kiosk dashboard to depict the real time data using graphs and dials.
- Analytics:
  - Daily, Weekly, Monthly and custom analytics for a device for all the pollutants which it reads.
  - Cross device comparison
  - Reporting as per predefined standards.

Challenges

- Real time data storage and operation.
- Making the system user friendly.
- Frequent client interaction to ensure the optimal utilization of client's domain knowledge.

Benefits

- User gets a clear picture of the indoor air quality.
- Based on real time depiction, analytics and reporting user can take an informed decision about the corrective measures (if required) to be taken to make the indoor air cleaner.
- Reporting can be used by the corporate users for generating reports that they are required to submit for auditing and compliance.

Key features

- Role based access control
- Report generation
- Kiosk dashboard (Live data)
- Cross Device comparison
- Company management
- Approval Flows

Technology

- Feathers JS, React JS, Rabbit MQ, Express, MongoDB, Socket IO, GoLang, Google Map, Highcharts, Recharts, AWS EC2 etc.

https://iaqure.sterlingandwilson.com/