Pyther Innovations

Empowering your business with cutting-edge technology solutions

Introduction

- Established in 2008, headquarter located in India.
- Our capabilities are to provide offshore End to End Solutions over any technology around the world.
- We have a team of experts with decades of combined experience in the IT industry.
- Our Strengths such as its expertise in MERN, React Native, JavaScript, Express Java Script, Salesforce Development, Mobile app development, Cloud based architecture, IoT, CMS, Data Science, eCommerce and full-stack development.

Why Client choose us over thousands of choice?

Pyther Innovations

- Best Cost
- Quality Work
- Timely communication
- Organised reporting
- Timely Delivery
- Support

How the Pyther Innovations is better than other development firms

Pyther Innovations

Other Firms	Pyther Innovations
Lack of clear business requirement	We had a team of Business Analyst who can co-ordinate with stack-holder for their requirements. Analyst will prepared the complete functional requirement document and take approval with stack-holder and then proceed with next phase of development.
Difficulty in time estimation and cost estimation	We had a team of expert people who estimated the timeline for the requirement i.e. stack-holder will get the release on time. The accuracy of time estimation is 98%. The price will be the best in compare to market rate.
Dependance on specific technologies	Our company CTO has a vast experience, 20+ years in the field of ITES. He is professional trainer who can train entire team with emerging technologies.
Difficulty in finding and retaining skilled developers	We have in-house experienced trainer, so entire team groom with latest technologies. Our entire team is full of skilled.
Inadequate testing	Experienced testing team who follow complete STLC and provide quality assurance for the developed product.

Pyther
Innovations

We, create VALUE for your BUSINESS

Success Project Stories - IoT

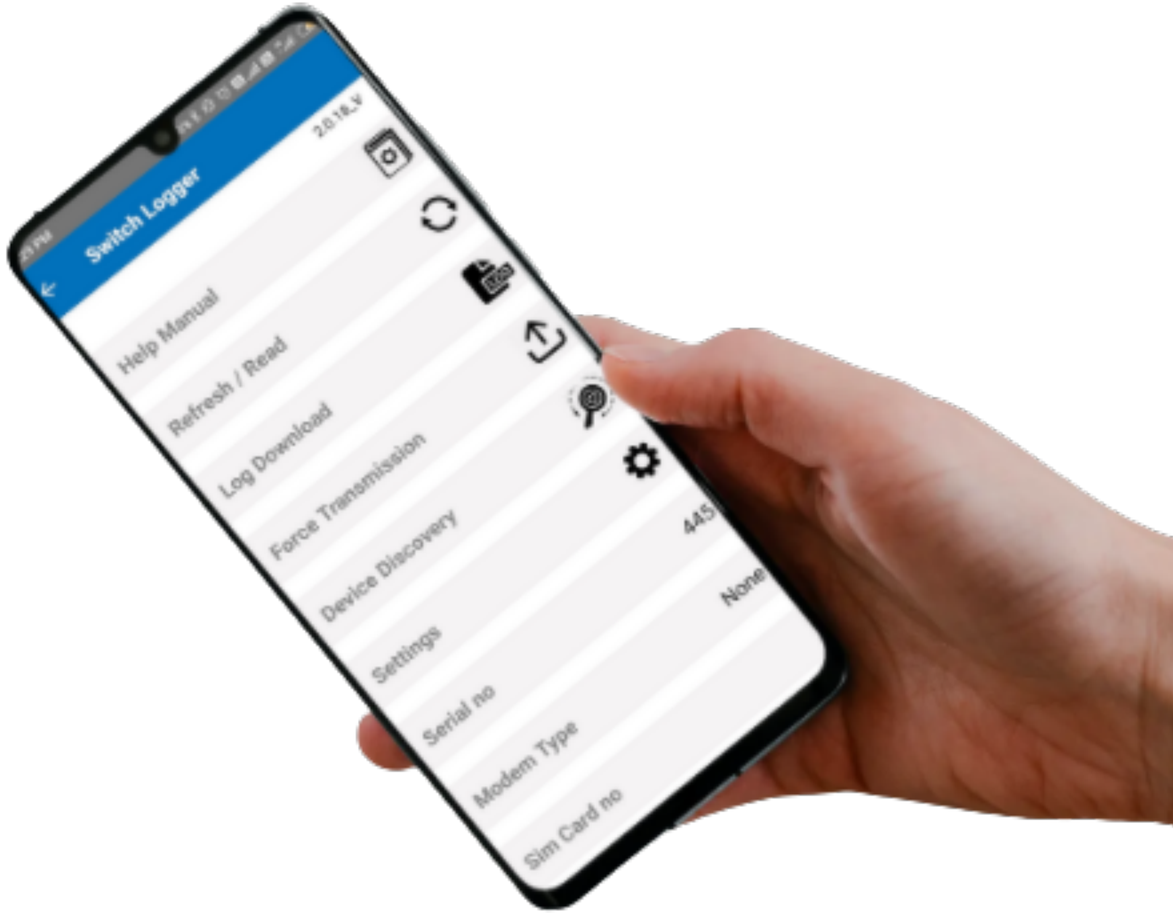
Case Study - Bladder Diary

Bladder diary - It is a digital health solution. It assists physicians with the accurate diagnosis and monitoring of Lower Urinary Tract Symptoms (LUTS). It uses sensors to objectively measure bladder behavior during a prescribed interval. For instance: Volume, Qmax, flow rates and frequency of a patient's voiding activities. An easy Uroflowmetry or urine flow rate test at home.The comprehensive bladder diary can easily be shared with physicians. The app is available and supported on both Android® and Apple® platforms.

Success Project Stories - IoT

Case Study - Switch Comm

SwitchComm allows the user to connect to the data-logger onsite without cables to change everything from transmission intervals to Modbus baud rates. The app is designed to connect your Android or Apple device to any of the Switch data-logger family through Bluetooth connectivity..

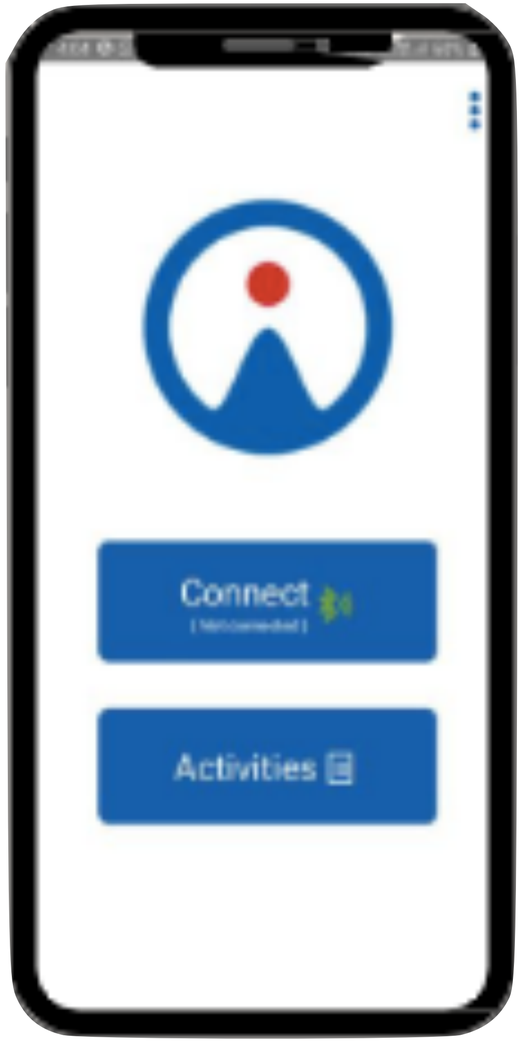


Success Project Stories - IoT

Case Study - Depression Identifier

Depression is a leading cause of disability and suffering worldwide. 300 million people suffer from depression globally, costing the world economy USD 1 trillion in lost productivity.

It is a User-friendly platform to enable earlier interventions by the clinician, which uses clinically validated algorithms to quantify stress in real-time providing reporting system for the clinician



Success Project Stories - IoT

Home Automation - Work Desk- App Controls

- App Controls - Hight Adjustment, saving of user set height modes(3)
- App Controls - Switching on/off for wireless charging, power plug, Ambient lighting, usb **C** power hub
- Ambient lighting modes(Rob colours)
- Can be run through Alexa, Home Kit, Google home

Success Project Stories - IoT

Home Automation - Airbed- App Controls

- App Controls - Desk mode(Bed goes up), Bed mode(Bed mode comes down)
- Wireless charging pad on / off
- Lighting on /off, switching modes(same as smart light)
- Can be run through Alexa, Home Kit, Google home

Success Project Stories - IoT

Home Automation - Smart Light- App Controls

- Work / Reading Mode
- RGB-color and Music Mode
- Alarm clock to wake up lights
- Proximity sense (detects device presence and turn on)
- Ability to add more than 1 light in a room, both will synced(similar to Philips hue)
- Home run through Alexa, Home Kit, Google home

Success Project Stories - IoT

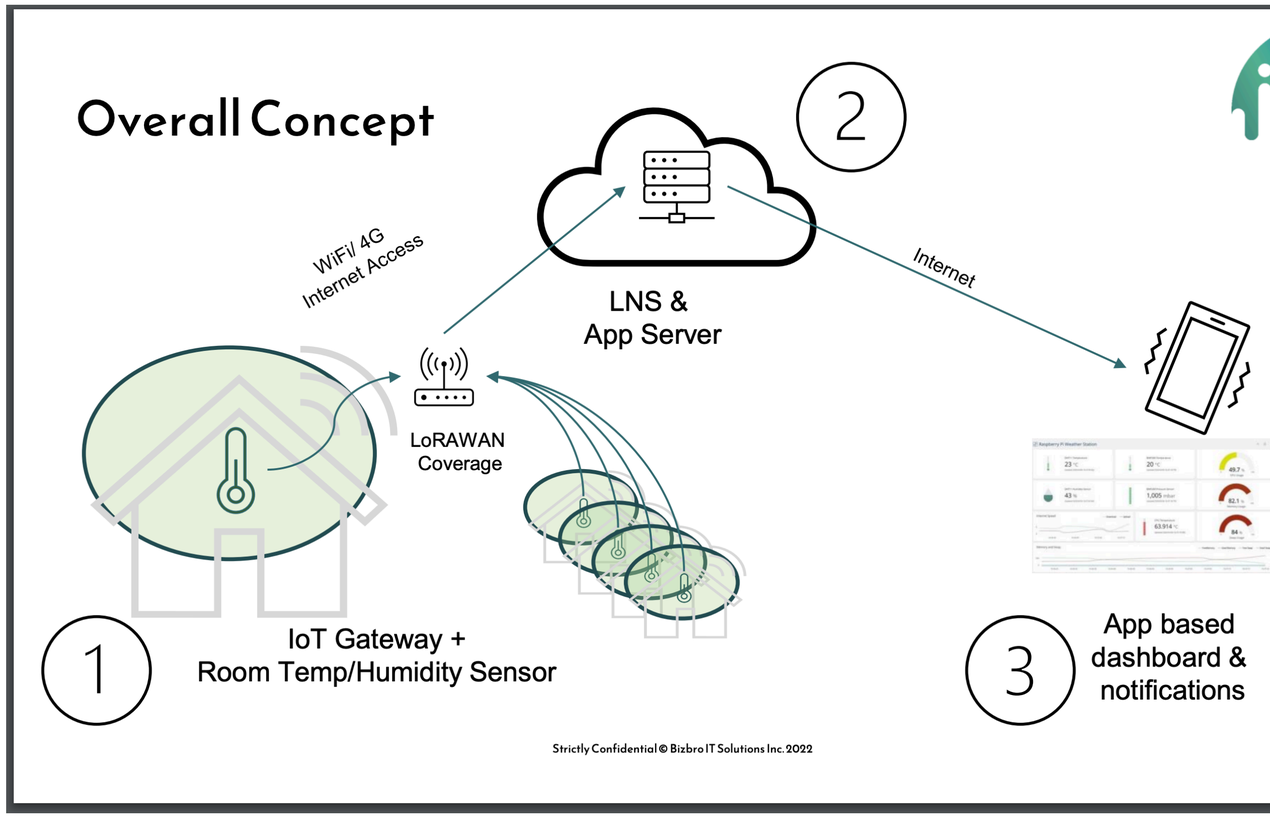
Home Automation - Smart Table - App Controls

- Wireless Charging on /off
- Chiller Fridge on / off
- Ambient Light controls (Night mode on / off, Rob mode on / off)(Rob mode Same as smart light)
- Proximity sense(detects device presence and turns on)
- Ability to add more than 1 stand in a room, both will synced
- Home run through Alexa, Home Kit, Google home
- Optional(Bluetooth controlled speaker connects like a normal bluetooth speaker)

Success Project Stories - IoT

Case study - Humidity Identifier

- **B**izbro wants to develop a mobile app that provides end-users with visibility on environmental status of a designated space (such as a room for a family member with special needs). The solution is built on multiple LoRaWAN enabled sensors, communicating through a Gateway and status details are then displayed onto a simple UI on iOS/Android Mobile app.



Success Project Stories - IoT

Case Study - Humidity Identifier

The app will provide a simple display / dashboard of remote ambient room environment (min. Temperature & Humidity) conditions.

Underlying Integrations:

- The LoRa enabled Room sensor is to be integrated with standard LoRaWAN Gateway(s) .
- A LoRaWAN Network Server is to be deployed to log data from multiple gateways

Mobile App:

- The Mobile App will provide status information from one or more sensor(s) for a provisioned user with secured credentials

Management Console:

- The console will provide provisioning functionalities for adding/deleting/modifying sensors, associated gateways and user access on the mobile app

Success Project Stories - IoT

Case Study - Telepathy Lamp

Screen 1 - Plug in one lamp and switch it on.
Screen 2 - Ask the user to choose the design of lamps he has bought. There are a total of 9 designs. They are divided into 3 types of touch sensors. If the user selects type 1 or type 2 of lamps,(8 of them are these),For the 9th design, we will share instructions in a week. Ask user to select the order number.
Screen 3 - Ask the user to long press the button switch until the lamp turns purple.
Screen 4 - If the app can guide the mobile to automatically connect with the wifi "Telepathy Lamp Portal" it would be ideal. If not, guide this screen guides user to connect to wifi named "Telapathy Lamp Portal"
Screen 5 - Once this is connected. The page shows different wifi connections available in the vicinity of the lamp. Guided tour prompts user to select their wifi name, enter password correctly and then choose an email id. A prompt should tell that this email id should be common between all connected lamps.
Screen 6 - Cool gif showing attempting to connect the lamps written.
Screen 7- Connected! Prompt user - "When the lamps turn green, click next"
Screen 8- Image shows touch sensors for all 2 types of designs - Top touch or side touch. GIF guides them to touch sensors properly for sending their first message.
Screen 9- Check if the message was written, prompt - Congratulations on sending the first message. Now long touch the sensors to see color change pattern.
Screen 10 - When the color of your choice appears, short touch to save this color.
Screen 11 - "You can save the color with the long touch or select it from the app here" prompt guides the menu of color spectrum.
Screen 12 - "You are all set. Enjoy the Language of Light." Button shows - "That was awesome. I want to write a review".

Success Project Stories - IoT

Case Study - Telepathy Lamp

Admin Dashboard :

- Shows Device Data
- Users Connected with Lamp
- Monitor message history between connected lamps

Success Project Stories - IoT

Case Study - Soil App

Specializes in creating advanced tools and technology solutions for agriculture and environmental monitoring. We recognised a need for a more efficient and accurate method of collecting soil data in the field. Traditional methods were time-consuming and prone to errors, so we embarked on a journey to design a soil testing product that would revolutionize data collection.

- Design a soil testing product equipped with a custom-built sensor.
- The sensor would accurately read various soil parameters, including pH, moisture levels, and nutrient content.
- Data collected by the sensor would be transferred wirelessly to an Android Point of Sale (PoS) device using Bluetooth technology.
- The Android PoS would have a user-friendly interface for data management and customization.
- Field personnel could print the collected sensor data along with custom fields directly on-site.

Success Project Stories - IoT

Case Study - Farm Fluence

- The portal receives data from two sources: sensors and control relays.
- The gateway communicates with the portal using MQTT and HTTP protocols.
- Sensor data on the dashboard will be real-time, updating whenever there is a change in values.
- The gateway posts control relay data, including state (on/off), date, and time.

Administrator Portal

- Admin will register customer and create customer login with subscription timer.
- Crop master creation with nutrition detail.
- Sensor type wise maintenance schedule setup.
- Customer wise periodic log Report for sensor data and control relay data.
- Report of critical event gateway online or offline, data issue

Success Project Stories - IoT

Case Study - Farm Fluence

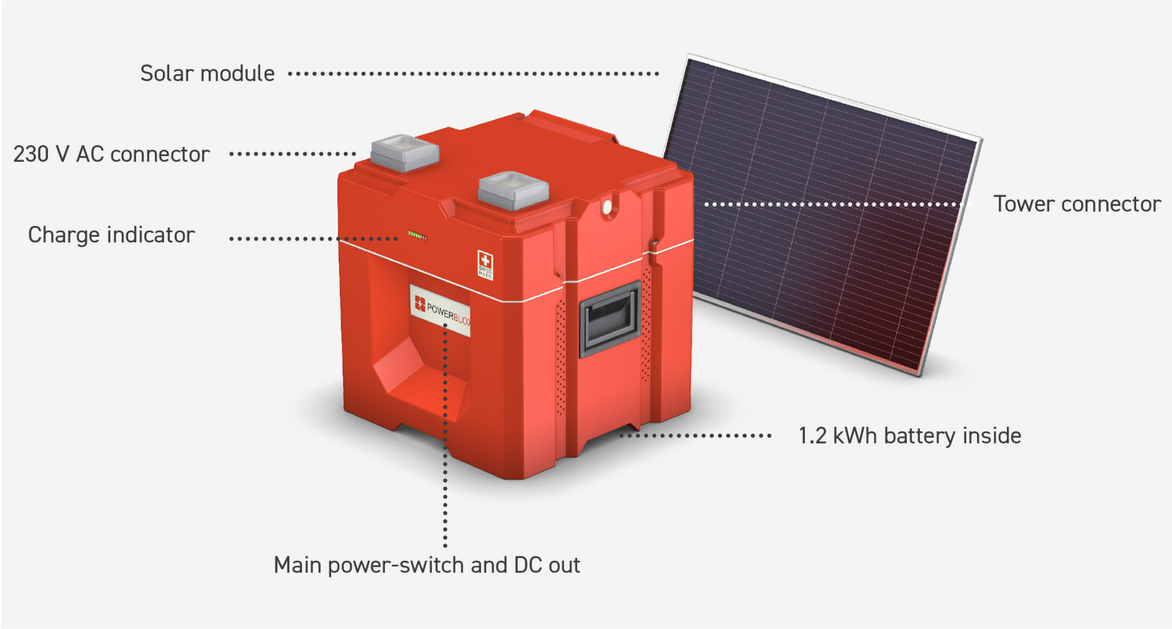
Customer Portal

- A dashboard featuring live sensor data, periodic charts, and a Farm score will be accessible based on the subscription.
- The customer profile page will include an image upload option. Customers can add multiple farms, with each farm dedicated to one crop.
- All sensors will be configured at the farm level via a gateway. Crop master nutrition data will be updated as needed.
- A farm-level inventory will operate as a stand-alone feature.
- Users can view maintenance schedules by sensor type and capture maintenance details for each sensor.
- Periodic log reports for sensor data and control relay data will be available in various formats, including charts, Excel, and PDF.
- Scheduled periodic reports with farm scores will be sent to registered email addresses.
- A control panel, similar to a dashboard, will allow users to control and toggle relays or devices.

Success Project Stories - IoT

Case Study - Storage of Energy

- The PBX series combines the simplicity of a solar home system with the power of a mini-grid.
- It consists of intelligent energy cubes with an integrated battery (available as lead or lithium ion version).
- Each cube provides 200 Watt of alternating current and can be powered by a solar unit or from any external source (such as wind, hydrothermal, biomass, or a generator, etc.) to supply a household or small commercial business with electricity.



Success Project Stories - IoT

Case Study - Storage of Energy - Dashboard

Dashboard Features

- Field agents that on-board customers, i.e. enter customer information into the system, and assign energy meters to indivi customers.
- Managers that - view the connectivity status of the system, e.g. if all meters are sending data and are operational (energ being used)
- View wallet balances and customer payment information
- Enter payments manually if the automatic payment processing is not yet integrated or when there are issues with autom processing (e.g. customers enter wrong meter numbers, payment amounts etc.)
- Accounts and Users Hierarchy
- Asset Inventory & installations
- Business Models & Products
- Business Operation

Success Project Stories - IoT

Case Study - Track Safety man body temperature - IoT & Dashboard

- It should have the functionality to track either based on the GPS details on the Google Maps
- It should also allow upload of 2D & 3D (Only 2D) Images of the Buildings and Factories and should be able to provide the location o Manpower based on the activity being carried out by the customer
- Apart from the LAT LON information of the people, the Dashboard would also collect additional information of the personal that may incl
  - ☑ Heart Rate
  - ☑ Body Temperature
  - ☑ Surrounding / Environmental Temperature
  - ☑ NO Movement alarms
  - ☑ Fall Alarms o Panic /SOS button pressed
  - ☑ Compressed images of surroundings at defined intervals
- The Dashboard should be able to map the Module IDs to Names
- It should be able to account the operation time, configurable by the User
- Provide analytics of the people statistics

Success Project Stories - IoT

Case Study - Track Safety man body temperature - IoT & Dashboard

- Provide analytics of the environmental condition
- Trace of people based on the LAT /LONs during the operation which could help identify the cause of incident and when they happen
- The Dashboard should be able to send notifications over SMS / emails
- The Dashboard should have Level based access authorization.
- The Dashboard should have multi-tenancy so that different customers can be onboarded.
- The mechanisms through which the Dashboard / Platform would receive data from the field devices would be,

  ☑ SMS

  ☑ 4G http

  ☑ Internet

  ☑ The data in some Use cases would flow directly from the Modules and in some through the Beacons / Gatewa

Success Project Stories - IoT

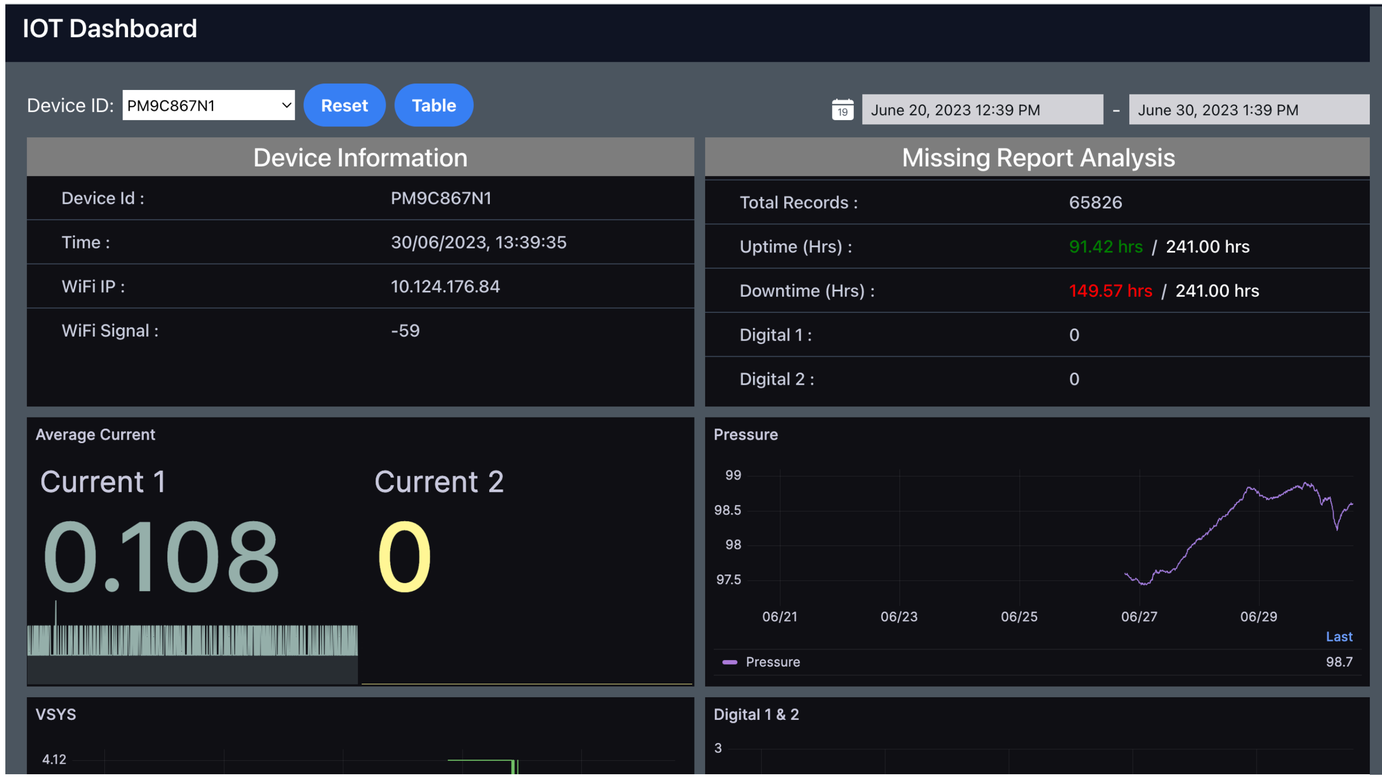
Case Study - Grafana Dashboard

- A Grafana dashboard consists of panels displaying data in beautiful graphs, charts, and other visualisations. The panels are created using components that transform raw data from a data source into visualisations. The proc involves passing data through three gates: a plugin, a query, and an optional transformation.

- A data source refers to any entity that consists of data. It can be an SQL database, Grafana Loki, Grafana Mimir, o JSON-based API. It can even be a basic CSV file. The first step in creating a dashboard visualisation is selecting data source that contains the data you need.

Success Project Stories - IoT

Grafana Dashboard



Pyther Innovations

Satisfied Clientele

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