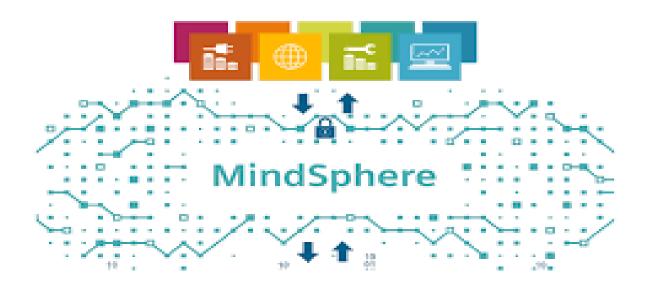
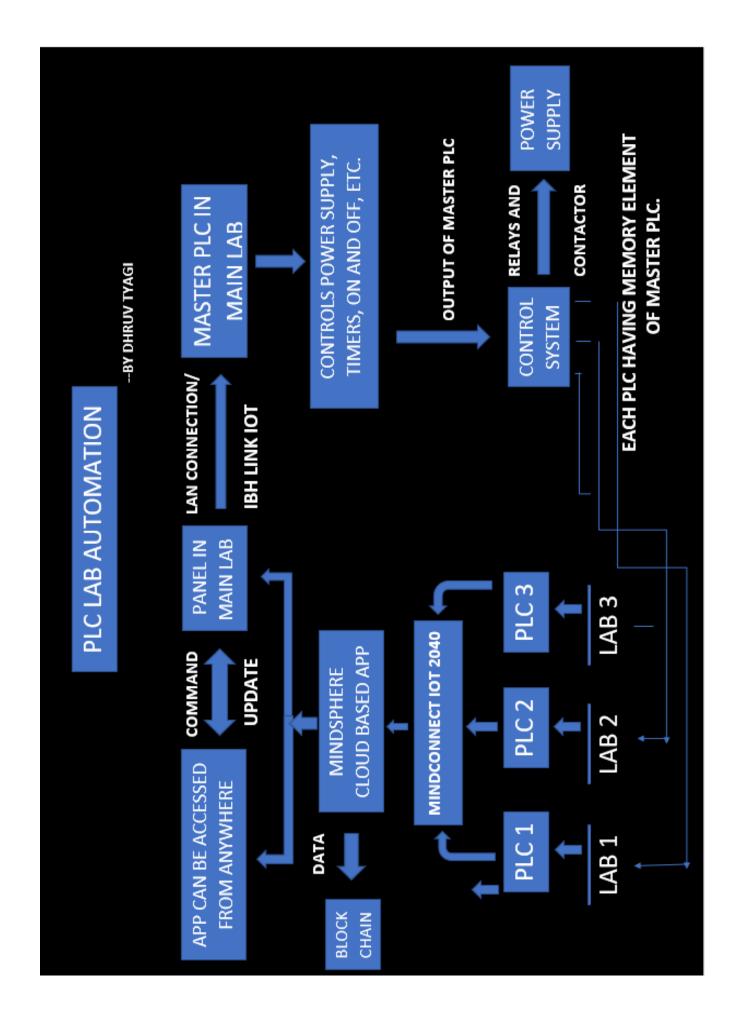
CONCEPT OF AUTOMATION USING MINDSPHERE

-by DHRUV TYAGI

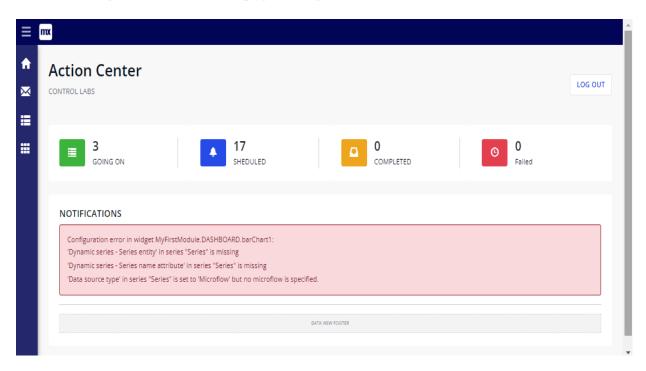


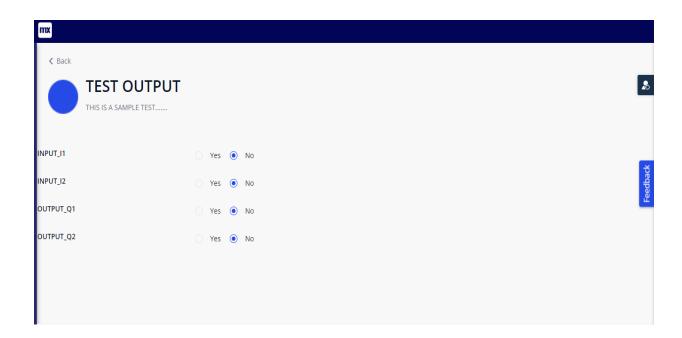


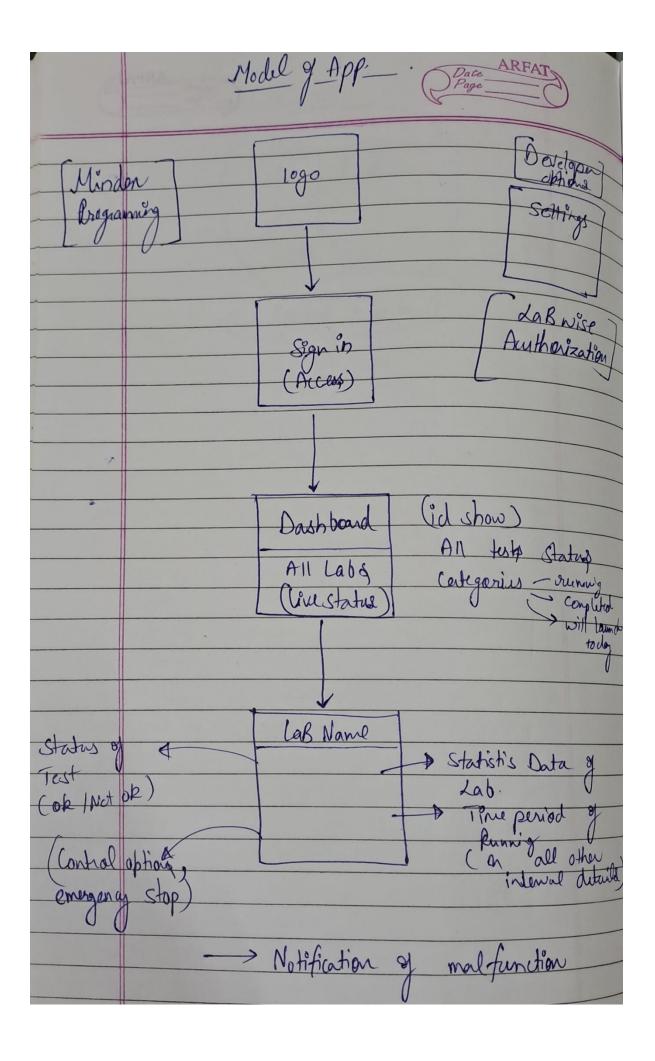
THE ABOVE SHOWN IS THE WORKING PLAN FOR THE AUTOMATION OF PLC LABS USING MINDSPHERE. IN THIS THE DATA ALL THE PLCS IS FROM UPLOADED TO AN APP ON MINDSPHERE THROUGH MIND CONNECT IOT 2040. FURTHER DATA IS ACCESSED THIS THROUGH A MASTER PLC WHICH CONTROLS ALL OTHER PLCS. ACCESSED USERS CAN ACCESS THE MINDSPHERE APP FROM ANYWHERE. USERS THAN CAN SEE THE DATA OF ONGOING OPERATIONS ON THE APP AND CAN COMMAND ACCORDINGLY. THE APP WILL THEN GIVE COMMANDS TO THE MASTER PLC THROUGH IBH LINK IOT / LAN CONNECTION.

MODEL OF MINDSPHERE APP

SAMPLE APP MADE BY DHRUV ON MINDSPHERE USING MENDIX.







INFORMATION ABOUT MINDSPHERE, ITS WORKING AND HOW TO DEPLOY AN APP IN IT.

Mindsphere (Siemens) Idea -> Realize it -> Otilize it Virtual private Cloud Data Management Services of Compute Resources

Identity of Access Management.

Connactivity Dev-Ops ((Developer Chroduction)
3rd party Integration

Custom APIG Data Stranging

Client Credentials Software interface offering a Service of software. Security to help you in realization

Mindspane -Platform which connects to everything call the existing daires)

with New Days to Connect.

spen App endpoint

spen Source hibrary All types of General purpose took to help you in all the stypes of Pulization.

(his Data flow Creator,

Basiness Intelligence) 3) APIS which are Industrial focused C. Anonaly Detector my for best · XPI calc. - pup eye on coupled parameters defined by us] ApIs Applications with familian languages. [python, node is php, Java] enist for your problem. pletfor that drives innovation

of tid an operating system for the Internet of Things with open Standards of Open Interfaced. The data can be easily linked of brought in relation with each other to obtain new ineights. Apps wailable for precisely there tasks. companied con optamize their products
by evaluations, how, where of
Under what Conditions the product is
used. The insight can imedially
be fed back into the production of
disgn process, to make products
more efficient of practical.

Mindsphere Edge Devid Breprocess data using edge

Create Condition Monitoring Project.

ARFAT Connecting to a Sements PLC Mandwares Collecting desta Mind Connett Nano Mind Connect 2040 ASSets) Mind Connect I 0T2040 Asset Managar app for onboarding D) Access Using TIA partal - Remit access with PUT/GET Commication from sende partner.

- Use this (check it) then only Rom Mind Connect Bon cont talk with your PLC Bon Connected with Mind Connot through USB, the online 4 On boarded (Green)

(Mendin app Building Aspect Use Cassa Mind Sphere App Building Launch pad That Manager using IOT Then treatl & know what 10018 your App Regnirements what upp should look like Code APP

Visnal Studio Code Page Page in Python)
or any other existing language tocally developed app,
putting it into the cland
(Mind sphere) App reeds to our in cloud environment Install (loud foundary. Comes with deve toper options Mind sphere] rum locally :--- J-Commend: cf - push Launch pad Developer Cockpit Create new application

Copy the App Word Route Gram

Copy the App Word Command line.

Then paste it in

Cf Direct Link in App Deta Give access & permission to app to read fuit data from Vser Mangement.
Give Rights to who can access After this App is sen on haunch part. . questions, Code Shippets, Any Go to Developer Documentation [Publically Available]

Developer. mindsphere. io (All the documentation) APIS & Sowing -> 107 Time Series Service API time series / [entity] / [property set name] Asset PUMP Change errors in Terminal build -- prod (heck in videod [Mindsphere: an app in 20 minutes]). prohagein fram logo system App Working properly

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Managing of Dishibuting Customen bunch pad / Mind Sphere App Stal

Ohrw Tycgi
CEO/Manager (KPIs)

Page CEO Mind Sphere 4 Mendin - Building App jet Access to Mendin (Mendin . com) TDO training in Mendin Academy Download Desktop modeler Create App locally Push App to Mind Sphere Register App of See it on Launch pol-Enjoy Vsing your New App

for APIS -> use Mindsphere APIS & Servius Read what are malfained & well-formed API reguest , which API & to - chick how to make. app by accuracy APIS. Ask about the Docker use? Mow to assing the APIs initially before Connecting Mind Connect. Visval Outer KPI. (Key Renformance for penformance measurement. to evaluate the advity of a project or equipments. 5 beg indicators ; Castomer Satisfaction.