SOFTWARE REQUIREMENT SPECIFICATION DOCUMENT

METRICS MATTER

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IOT Dashboard and Analytics using superset

VERSION : 1.0

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1. INTRODUCTION :

Superset is an open source platform; using D3 graphics and Python. The company is looking to use Superset to configure, customize and build additional features required to create a comprehensive analytics dashboard for IOT and building controls.

Current facilities have multiple supervisory systems which contain logs and data points and alarms. Our platform is used to consolidate the data from these supervisory system and the project is to provide KPI's for alarms, Trend Logs etc using dashboards.

1.1 Need/ Motivations :

To push the analytics onto a web application so that the end users can easily use the software

1.2 Document Conventions :

The document uses the following acronyms :
- ODS : Operational Data Store
- ADS : Application Data Store
- SS : Super Set
- DB : Database

1.3   Intended Audience :

The product is mainly targeted at businesses and performs analytics and data visualisation. It is expected that both people from a technical background and from a technical background are expected to use this product

1.4 Project Scope

The project is split into two major parts . Ad hoc analysis and the creation and customisation of the 21 different templates in Superset . If any customizations are done which can be contributed and thus

improve the Superset application , the code will be given back to the open source community . Also of a lower scope is the integration of Metrics matter with the existing application i,e Points Matter

1.5 References :

Superset Documentation : https://superset.incubator.apache.org/

2. Overall Description :

2.1 Product Features   :

- Extract data from ODS
- Extract data from ADS
- Data Visualisation
- 21 Templates for the client to choose from
- Ad hoc analysis

2.2 User Characteristics :

- Databases uploaded by a user should only be visible to the user
- Credentials to be passed from application to another

2.3 Operating Environment :

1. Operating System : Linux , OSX , Windows
2. Database system : SQL Lite
3. Platform : Flask with Angular and React