Author – Prabdeep Pannu

Git Hub - https://github.com/PrabdeepPannu/GalleryApp.git

Galley Application Project Plan

- Application designed to load multiple services to monitor the live representation of data using different set of metrics depending on the modelled data or source provided by user.

- Technologies – Spring Boot, React, MySQL

Galley Application Backed

- Gallery Db will contain following tables
    - Service – this will store the service id, service name, service icon URL of a particular service
    - Model – this will store all the existing models saved the client to create custom metrics. Fields - model name, model query, model URL, etc. This table is in a many to one relationship with service table.
    - Metrics – this table will store all the different metrics associated to service and modeled data. Additionally, this will also save the filter selected by the user to reload it. This table is in a many to one relationship with Model table.
    - Graph – this table will store all the data set of a metric. This table is in a many to one relationship with Metrics table.

- Gallery API's
    - Service Controller-
        - GetSerives – get all the services
        - GetAllModels – get all the models associated to service
        - GetServiceById – get service using service id
        - PostService – post new service to database
        - PutService – Modify existing service data using id
    - Model Controller -
        - GetModels– get all the services
        - GetAllMetrics– get all the metrics associated to the model
        - GetModelById – get service using model id
        - PostModel – post new model to database
        - PutService – Modify existing model data using id
    - Metric Controller –
        - GetMetrics– get all the services
        - GetAllGraphData– get all the graph data associated to the metric
        - GetMetricById – get metric using model id
        - PostMetric – post new metric to database
        - PutMetric – Modify existing metric data using id
    - Graph Controller –
        - GetGraphs– get all the services
        - GetMetricById – get graph using graph id
    - Search Controller –
        - GetSearch – search name from service, model, metric.
        - GetServiceSearch – search name from service table
        - GetModelSearch– search name from model table
        - GetMetricSearch – search name from metric table

- Components –
    - Card Metrics – load metric graph using data set
    - Card Service – load service using service icon and service name
    - Card Model – load model using model name and model URL.
    - Existing Modelled Data – this component will load a grid of Card Model using models API.
    - Recommended Service – this component will load a grid of Card Service using service API.
    - Recommended Metrics – this component will load a grid of Card Metrics using metric API.
    - Search Component – this will load all the data matching the name using search API, additionally there are four filters metrics, model and service.