Dash View

# Document History

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| --- | --- | --- | --- |
| V 1.0 | Cheng Yi | 9/10/2016 |  |
| V 1.1 | Cheng Yi | 9/16/2016 | Add First Release Requirement |
| V 1.2 | Cheng Yi | 10/10/2016 | Add Flow Requirement |

# Technology

1. Using the latest, real time (async), modular java script technology. Node.js
2. MVW framework, like angular js
3. Based mainly on open source projects

# Account Management

1. Account create/modify/delete
2. Account -> project mapping (permission)
3. Account LDAP Server Integration, single sign on

# Project Management

1. ETL workflow (Workflow Designer Manager)
2. ETL Run Test/Monitor (Workflow Executor Manager)
3. Analysis Job
4. Dashboard

# Flow view

## Flow Editor



1. Edit Flow
2. Edit Action Properties
3. Edit Data Source

## Flow Tester

1. User can run the flow from Web
2. User can check the data for each Action
3. User can check the log from the Web
4. User can resume the flow at any step by specifying the data

# Tableau Integration

1. Map the user to tableau user
2. Map the reports in the tableau project to current project (using tableau restful API)
3. Passing parameters to tableau dashboards using tableau javascript

# Custom DashView

## Data Source

1. Support JDBC Data Source
   1. Vertica
   2. Hive
2. Support Realtime Streaming Data Source
   1. Kafka

## Query

1. User can define measures and dimensions.
2. User can select the fields.
3. User can specify the filter
4. For the fields are selected for the query but not displayed means group by these fields.
5. Calculated fields

## View Type

### Table View

1. User can define the rows and columns

### Map View

For location data.

1. User can zoom in and zoo out

## Execution

1. Support Pull type, pull the data from data source.
2. Support Streaming data pushed to us, and refresh the corresponding view.

# First Release Requirement

1. Menus
2. Account Management
3. Project Management
4. Flow View
   1. Flow Editor
5. Tableau Integration
6. Custom Dashview
   1. Refreshable Realtime dashboard

# Reference

1. Tableau javascript API: <https://community.tableau.com/community/developers/javascript-api>
2. <https://d3js.org/>
3. <http://freeboard.github.io/freeboard/>