

# Chapter 1

## Methodology

### 1.1 Trello

#### 1.1.1 0.0.1

- Draw ER Diagram for User owning Dashboards
- Research d3 wrapper libraries
- Setup grails 3.3.1 + groovy 2.4.11 + java 8u144 on devices
- Research Dashboard libraries for serialization
- Generate Domain classes based off UML diagram
- Look into Elasticsearch Java api and see if it can be used for building complex aggregations dynamically
- Use Grails to generate all controllers and views for Domains
- Add Spring Security Plugin for User Domain
- Build Elasticsearch Objects
- Update to Bootstrap 4
- Add controller actions for Schema Domain

### 1.1.2 0.0.2

- Style SchemaField edit template
- Add views and controllers for CRUD actions on ElasticEndpoint domain
- Generate the json format expected back for the user
- Fix navigation for Schema views
- Add levels to javascript aggregation logic
- Create a route service for applying rules
- Add a route controller method
- Populate elasticsearch with data
- Get rails3 web socket plugin
- Link codepens to Reasearch paper
- createMapping() in ElasticService is wrong
- Create diagrams for Aggregation objects for research paper
- Add Schema relationship to Chart object
- Setup Elasticsearch on an AWS VM
- Create a Rule object for users to transform their data
- Add Sass to project
- Setup Elasticsearch mapping service
- Create a RestService
- Add a delete action/view for Schema domain
- Deleting Elasticsearch index is not working from front end
- Create ElasticEndpoint domain

- Create a Domain for storing Elasticsearch endpoint addresses
- Research updating Elasticsearch mappings
- Move over to branch 0.0.2
- Add controller actions for Dashboard

### **1.1.3 0.0.3**

- Display aggregation execution result in playground
- Schema level counter in JS should match a DOM element to keep it more dynamic
- Iris demo presentation
- Write gradle task to kill geckodriver.exe
- Try adding underscore.js to project to stop javascript error
- Make aggregations executable in Aggregation Playground
- Create param link for Schema for routing data
- Create script to generate data for Iris demo
- Add Navbar navigation
- Create Selenide Test for demo

### **1.1.4 0.0.4**

- Unsubscribe the chart from onChartLoad
- Add download chart image button to each chart widget
- Check if billboard is storing all data points on charts
- Execute Chart aggregation on dashboard load
- Add modal to prompt user for a revision comment when they click update on dashboard

- Add a dashboard to the bootstrap file
- Add CRUD functionality to widgets on Dashboard
- Add update functionality for Dashboards
- Create XL Modal for dashboards
- Set and resize chart to be the same as the widget area
- Create JS files for chart types
- Add date by default to all json objects going into Elasticsearch
- Create Parsing logic for chart types in backend
- Limit socket messages to dashboards which are currently rendering
- Save dashboard server side
- Use browser cache to store a widget's aggregation attribute
- Use 'data-' HTML attribute for storing widget information

#### **1.1.5 0.0.5**

- Add StateChartList to Dashboards
- Add StateChartDisk to Dashboards
- Turn off stompjs debug logging for client speed improvement
- Change the Aggregation section on Dashboards, to contain a UI rather than raw JSON

#### **1.1.6 0.0.6**

- Add code editor for creating rules on the schema creation page
- Add most recent document option to aggregations
- Put iris-crypto-rates on raspberry pi and schedule it as a cron job
- Deploy iris v0.0.6