Team Dine and Dash(board)

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Recall

- Aims: provides a dashboard for visualizing data

- This web application is designed for the data analyst.

Problem

- Flexible
  - various data types
  - it is easy to access to any data and save it after processing
- Feasible
  - able to meet the academic requirements
- Understandable
  - easy for data analyst to understand the 2D and 3D visualization

Methods

- Interview

  with customer colleagues; multiple times

- Prototype

  design

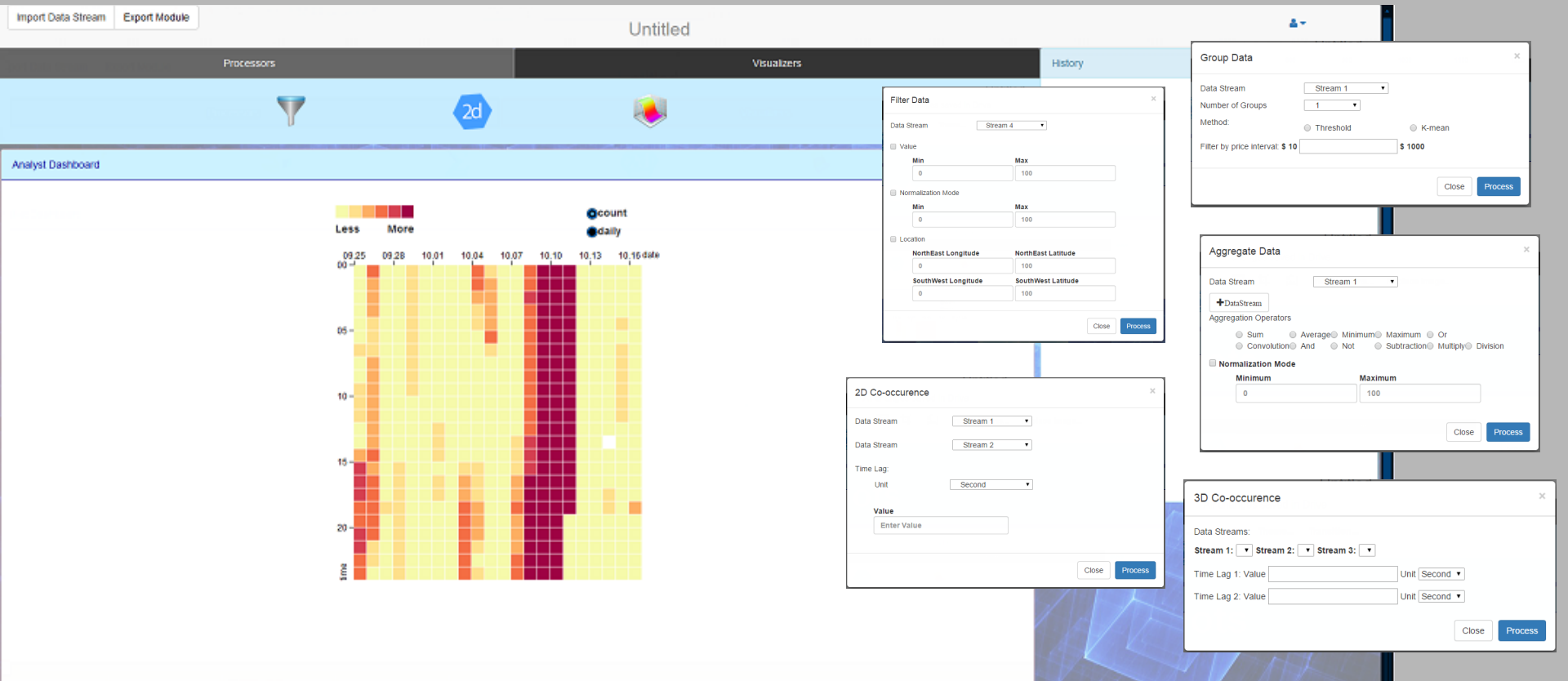
- User testing

  cognitive walkthrough, think aloud, heuristic evaluation

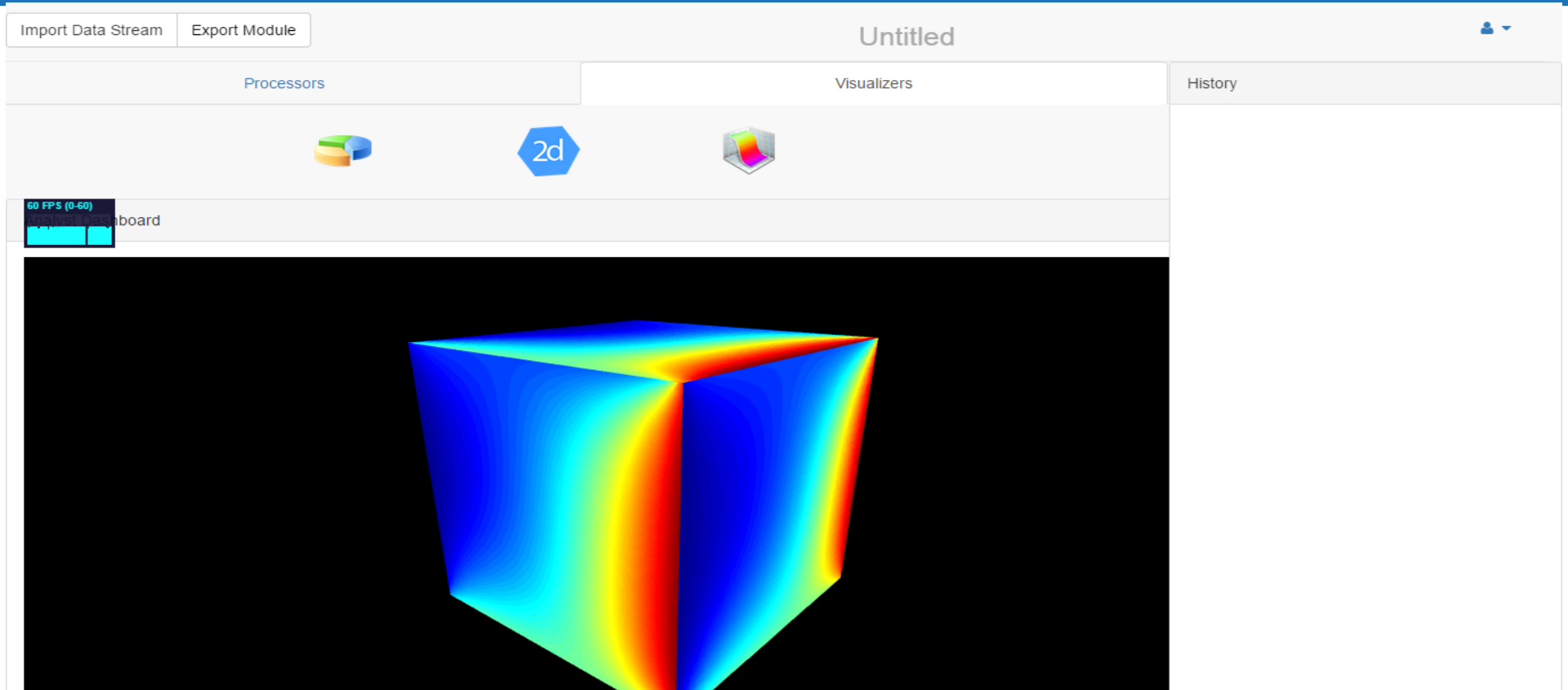
So far...

- We have had Customer meetings
- Paper prototypes
- Hosted our website on the student server
- In process of developing a working website
- Completed the layout for all the processors
- Made 2D and 3D visualization with D3.js

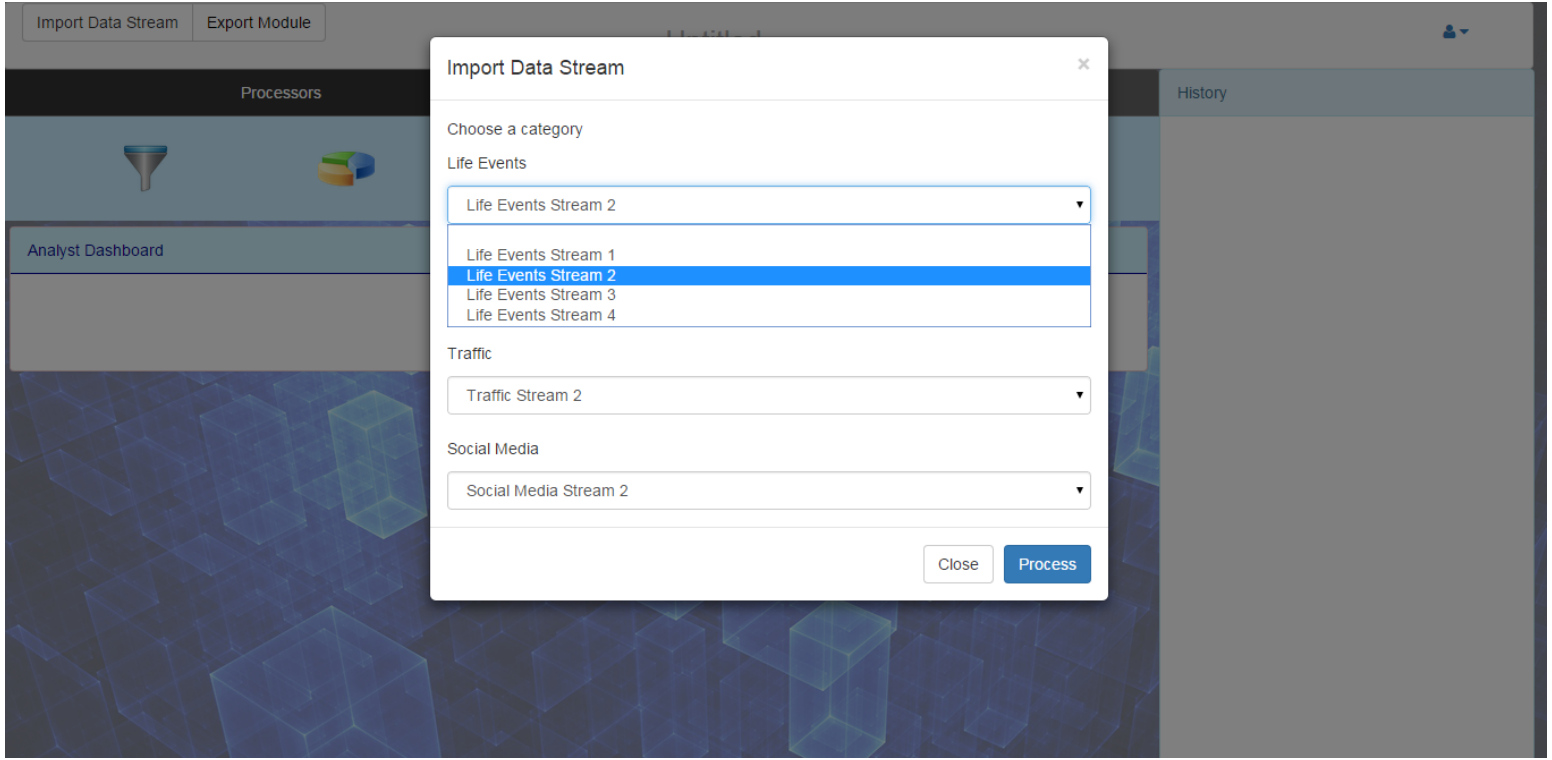
Screenshots



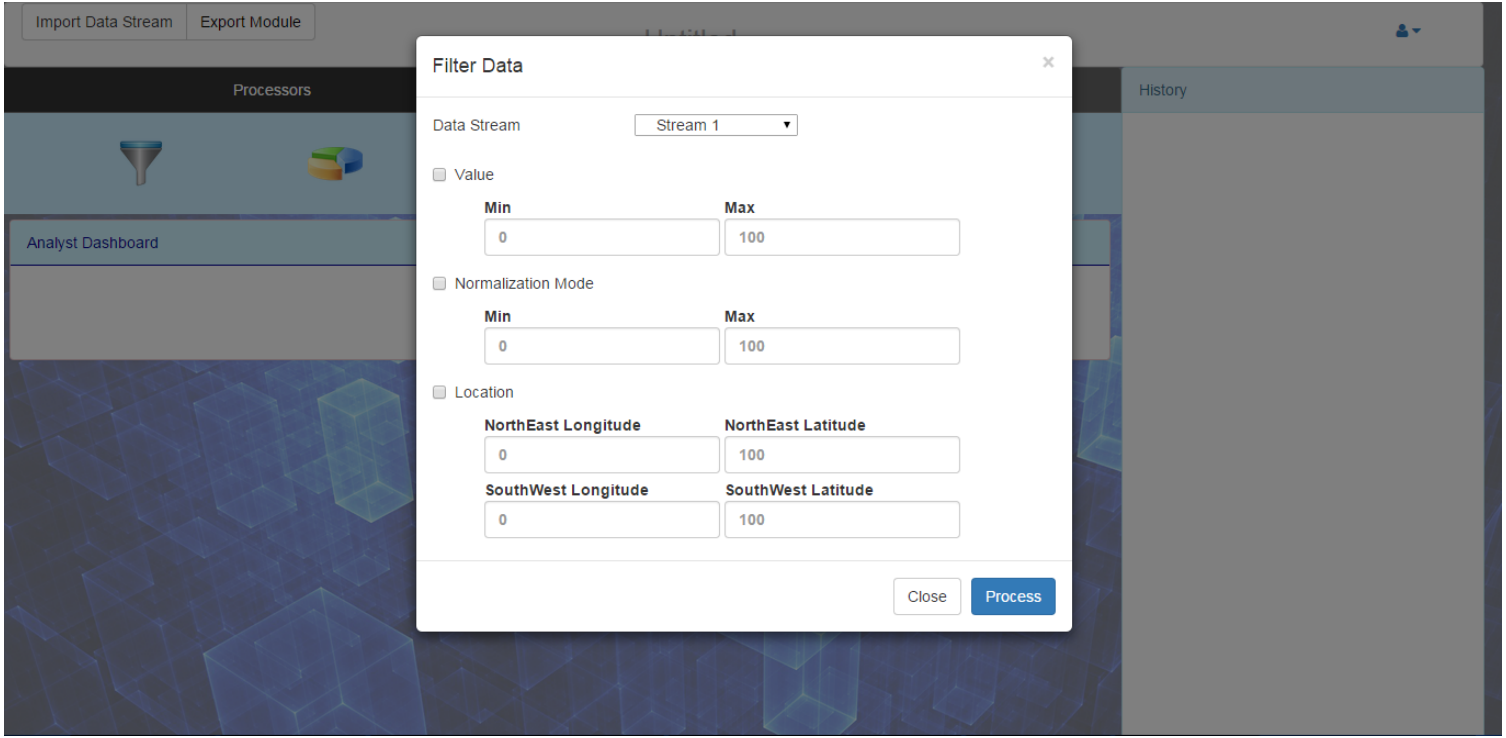
Screenshots



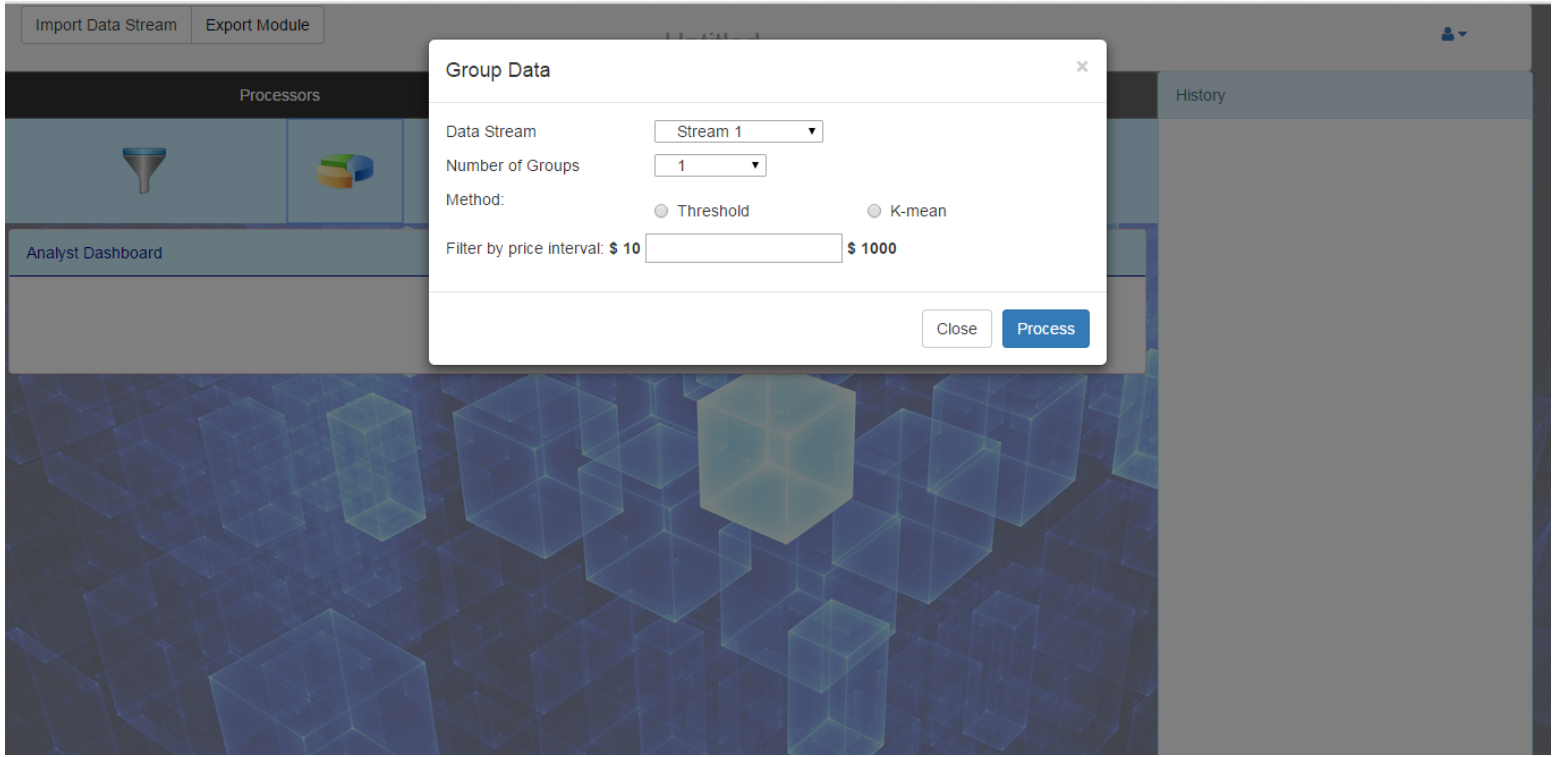
Importing Data Streams



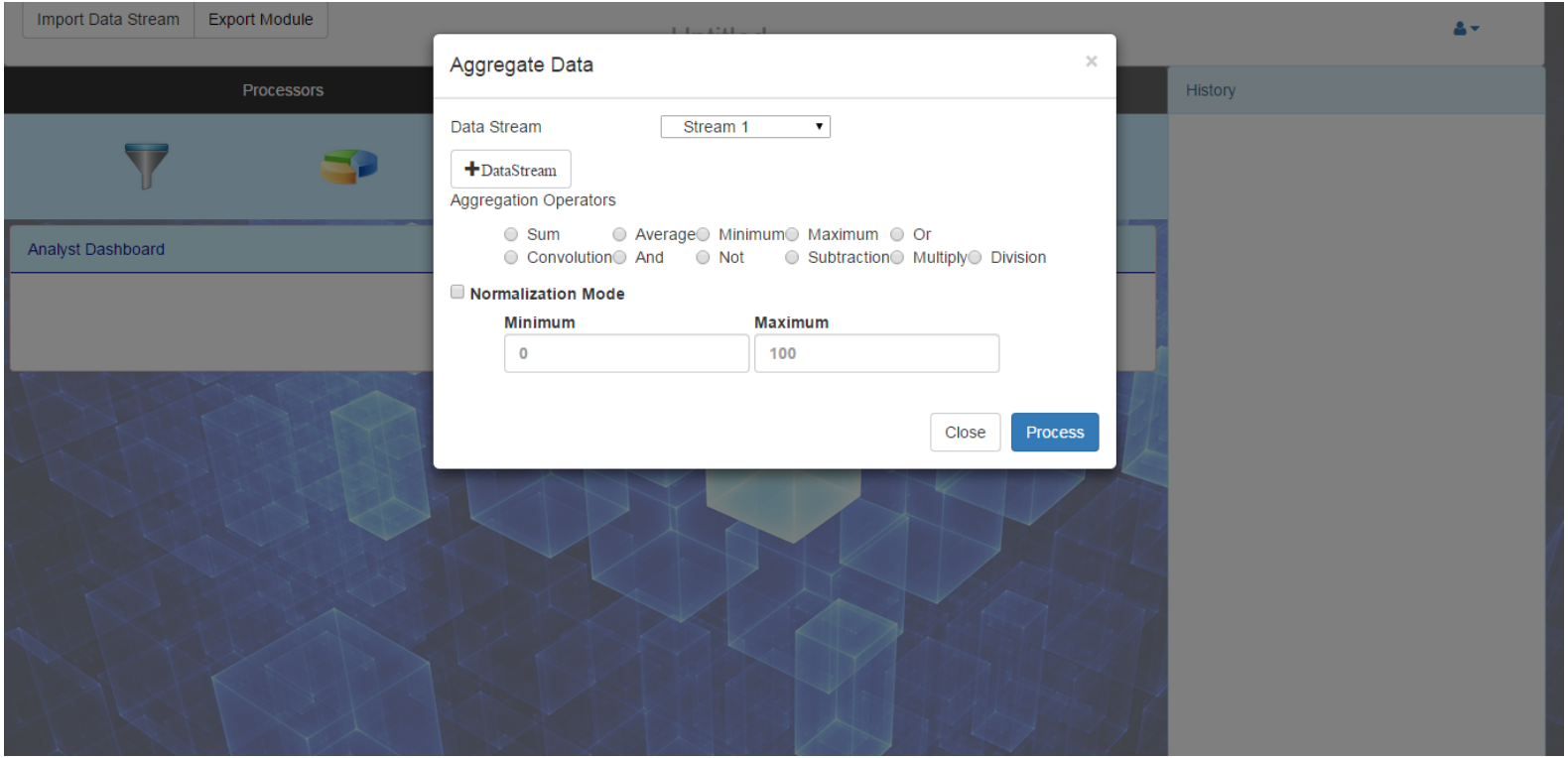
Filter Data


Import Data Stream
Export Module
Processors
Analyst Dashboard
History
Filter Data
Data Stream
Stream 1
Value
Min
0
Max
100
Normalization Mode
Min
0
Max
100
Location
NorthEast Longitude
0
NorthEast Latitude
100
SouthWest Longitude
0
SouthWest Latitude
100
Close
Process

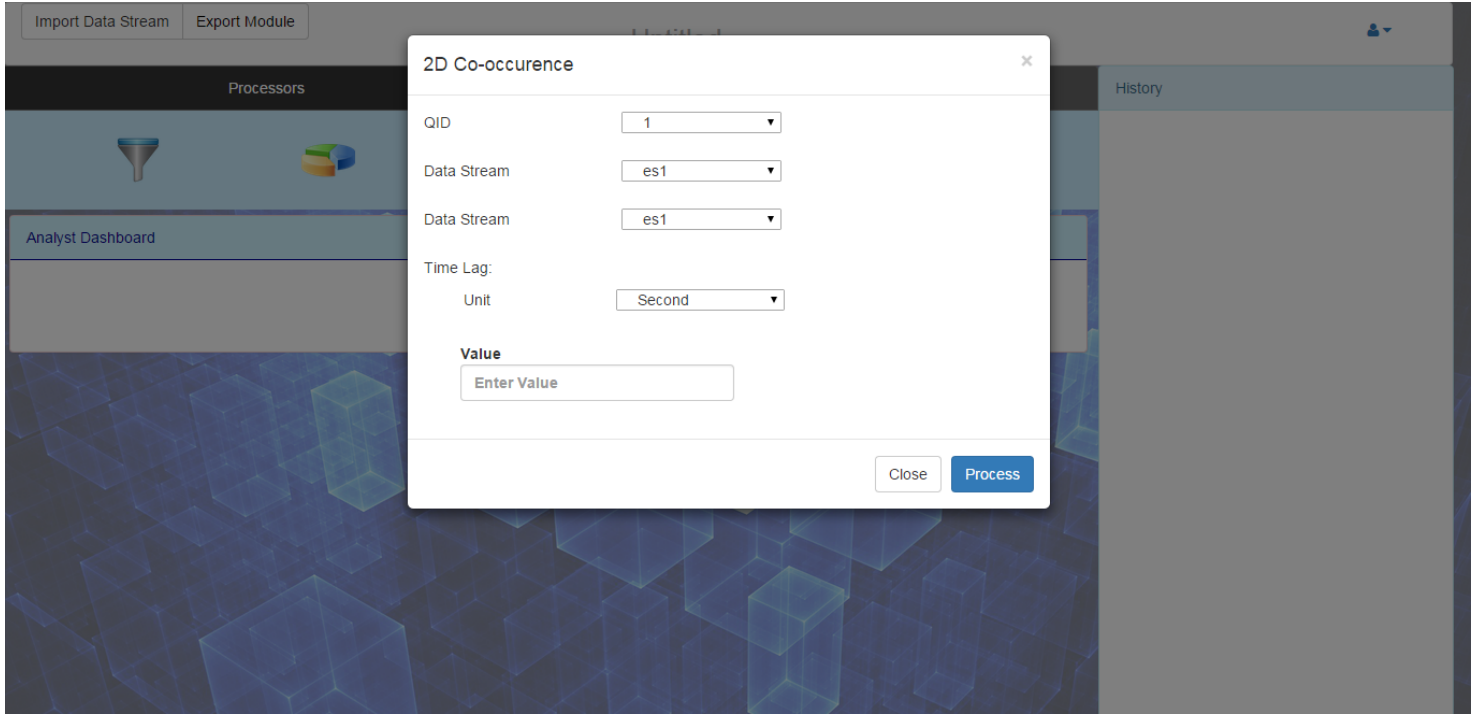
Group Data


Import Data Stream
Export Module
Processors
History
Analyst Dashboard
Group Data
Data Stream
Stream 1
Number of Groups
1
Method:
Threshold
K-mean
Filter by price interval: $ 10
$ 1000
Close
Process

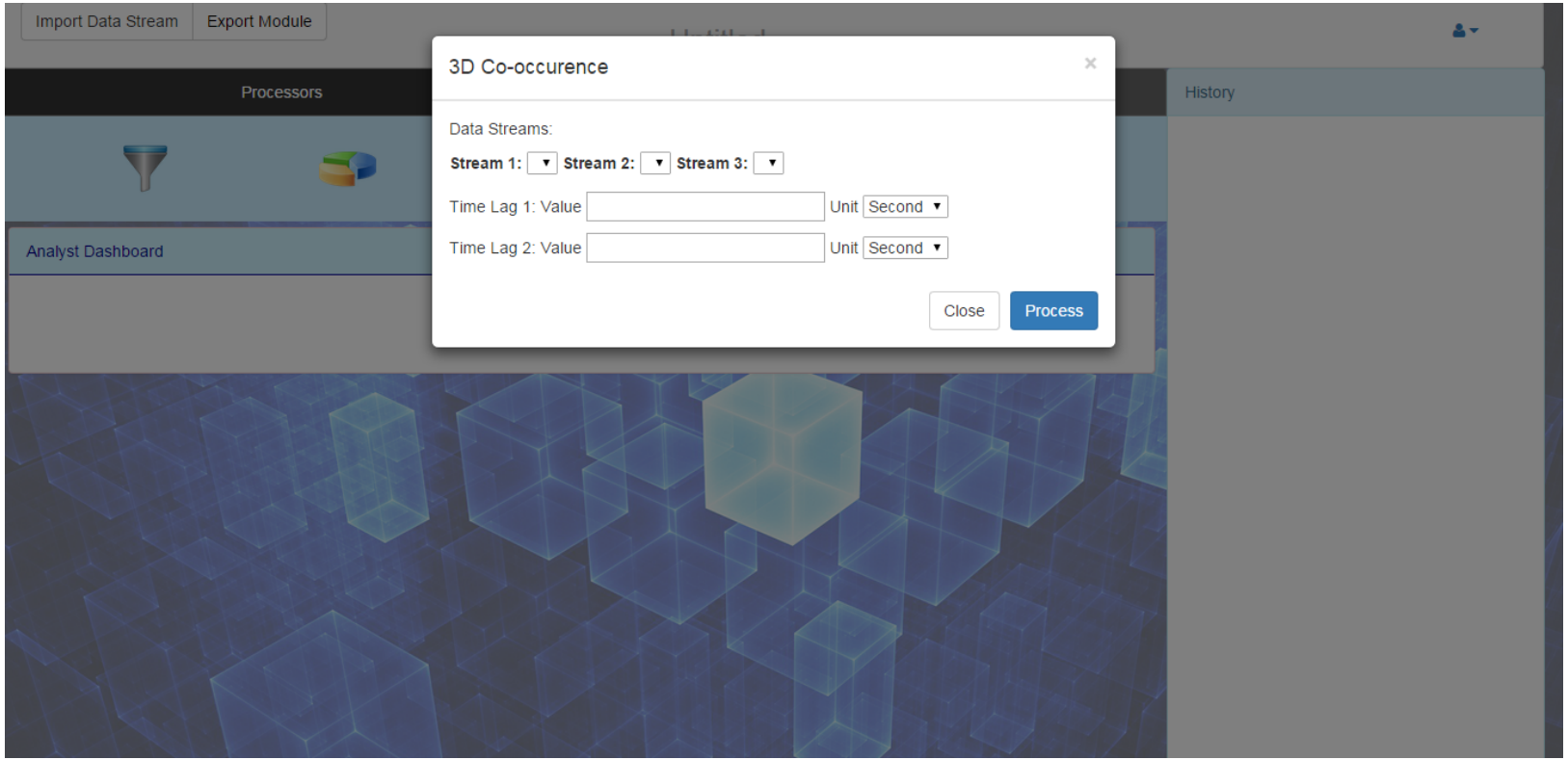
Aggregate Data



2D Co-occurence



3D Co-occurence



Insights

- Application for analytics
  - Experience with new data sets and conditions
- Audience of professionals
  - Specific jargon and knowledge
  - Meaningful visualization
- Web application and its capabilities
  - HTML, CSS, JS, JQuery, D3

Processor Difficulties (Programming)

- Creating the layout of the dashboard took the most time
- This included creating the processor icons and visualization icons
- Error checking and validating processor forms was a challenge

Visualizer Difficulties (Programming)

- Parsing data has proven to be a challenge
- We are looking forward to creating a 2-D and 3-D visualization of data
- Finalizing all visualizations and gaining customer approval

User Testing Difficulties

- Finding the time to test with users
- Finding the users to test
- Formalizing productive questions that will produce the best feedback
- Receiving diverse feedback

Decision (User Studies)

- Conduct initial user study
- We plan on testing our prototype on 6-8 people
- Ideal users should some background in data analysis.

Decisions (cont.)

- Correct most prominent errors
- Conduct more user-testing
- Evaluate & update
- If time is available, implement least important features.

Updated Timeline

Week 9

- Finish coding (all)
- Start user testing (all)

Week 10

- evaluate after user testing (all)
- write final report (all)
- finish the final product (all)

Tasks Splitted

Chris, Alfonso - Visualizations

Ricky, Ran - Information Management, History

Jun - 2D Visualization, History