

Date: 18 February 2016

Time: 01.30pm to 02.30pm

Venue: SMU School of Information Systems
Level 4
Meeting Room 4.3

Attendees: Prof Kam Tin Seong – Associate Professor
Leong Junkang, Gabriel – Team Skulptors Member
Tan Siying – Team Skulptors Member
Zhou Xuanyi – Team Skulptors Member

Absentees: NIL

Agenda:

1. Update of team's EDA progress.
2. Update of exploration and implementation with d3.js.
3. Clarification of project proposal results.

Discussion:

1. Exploratory Data Analysis (Inbound)
 - a. No of Plt EDA
 - i. Distribution analysis to include statistics. This is to ensure that the team will know the median, mean and percentile that they are working with too.
 - b. By receipt date EDA
 - i. To remove formula behind the "Date" column.
 - ii. Team is unsure of whether to use mean or median as if team were to use mean, the results will be scaled by the 695 pallet inbound.
 - iii. Team to clarify with sponsor.
 - c. No of plt EDA
 - i. Is each dot represent 1 shipment? Team to clarify with sponsor.
 - ii. Prof's comments
 - iii. It might be possible that the big shipments are hovering around in the cluster while the outlier inbound of 695 pallet is a year-end / one off shipment?
 - d. Ship from graph EDA
 - i. Need to ask sponsor why there is 0 shipment coming in. Maybe it is so small that it is not considered as part of a pallet.
 - ii. Prof interpretation
 1. Have a lot of loose inbound coming from 3 suppliers. The sponsor should reorganize the warehouse base on the suppliers unless they are shipping same item but from different suppliers. If item is not the same,

one way to reorganize is to reallocate space of warehouse to these suppliers.

2. Team to clarify with sponsor.
 - e. Data set EDA
 - i. Possible issue to ask about “picked qty”. If we were to pick 501, will it be considered as a pallet utilized?
 - f. To ask sponsor
 - i. With all the missing data (no stock cart), can the team suggest a way to provide the sponsor with a better measure of whether the warehouse space is fully, partly or quarterly occupied? Is there a way to work around it?
 - g. Prof’s advice is to start with overview before going into details.
 - i. Take all below pallet 1 and find out their location.
 - ii. Take all the pallet above 1 and find out their location.
 - iii. To determine if the way of managing the warehouse is good or bad.
 - iv. Find out where high and low inbound are located. Split them out into different graphs.
2. ABC sorting
 - a. Split by percentage for classification
 - b. Map (Xuanyi part) with the 3 outbound classification (Siyang part).
 - i. Do a joint, and conduct additional analysis based on the classes of A, B and C.
 - c. Data visualization
 - i. Possible to use tree maps to represent. Color will be the intensity of frequency. Each classification will be an individual tree map.
 - ii. Team to share the advantages of using tree map with sponsor and hopefully, sponsor might use it.
 3. Top 20
 - a. To change from pie chart to histogram. This is because a pie chart takes up a lot of space and there are too much colors on it. It will also be easier to put legend on it too.
 - b. To include time-sensitivity too.
 4. Dataset
 - a. To resubmit dataset onto elearn today.
 5. Wiki page
 - a. Wiki description to be reduced.
 - b. Project description to be more straightforward.
 - i. Our project sponsor is a local logistics company. For the purpose of this project, the team will be looking into gaining insightful analysis from the sponsor’s WMS system.
 - c. To update wiki project timeline once prof sends out the mid-term deadlines.
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Action Items:

No.	Task	In-charge	Due date
1	Submit amended data onto elearn.	Gabriel Leong	18 February 2016
2	Allocation of work tasks	Team Skulptors	18 February 2016
3	Schedule subsequent meeting with sponsors	Gabriel Leong	23 February 2016

The meeting was adjourned at 02.40pm. This minute will be circulated and adopted if there are no amendments reported in the next three days.

Prepared by,

Gabriel

Leong Junkang, Gabriel

Vetted and edited by,



Tan Siying