

# Analytics Practicum Supervisor Meeting 09

MINUTES

NOVEMBER 23, 2016

1400 - 1530

SMU SIS BUILDING MEETING ROOM 4-1

MEETING CALLED BY	Prof Kam
TYPE OF MEETING	Project Briefing
FACILITATOR	-
NOTE TAKER	Chong Xin
TIMEKEEPER	Chong Xin
ATTENDEES	Chong Xin, Bowei, Hui Min

## Agenda topics

1400 - 1500

DASHBOARD FINALIZATION

ALL MEMBERS

DISCUSSION	<ul style="list-style-type: none"> <li>- Updated Prof about the new poster submission (300 dpi)</li> </ul> <p>Showed Prof the current dashboard</p> <ul style="list-style-type: none"> <li>- Make the planning area/subzone borders thinner</li> <li>- Plan to put the cluster profile in a different tab</li> <li>- Do not put the data on the server</li> <li>- Prof wants to take a deeper look at it so that he can provide feedback</li> <li>- Prof suggested using Shiny widgets to add new data into the dashboard</li> <li>- Can use a join in R to match the library and the subzone data</li> <li>- Prof to get another team to carry on the project, we are to carry out the hand-over to the new group during December. This is inclusive of the handover of data.</li> <li>- Prof mentioned that we will be unable to show any insights to share with NLB, as there are still many things to be done.</li> <li>- Hui Min asked Prof if there are any projects that can shift the marker in Shiny R. Prof mentioned last semester the group with HPB was able to shift the marker using Leaflet.</li> <li>- Prof's understanding of Shiny R &amp; Leaflet – Shiny R will have code that will call on Leaflet, and there will some utilities to pass the data to Leaflet. However, we are calling Shiny R methods. We are using a Leaflet package in R</li> <li>- Prof asked if we know how to use the documentation of R, and suggested us to use it. Maybe there will be a documentation that we can find on how to shift markers. However, we are unable to find any relevant documentations. So far we can only add/remove markers.</li> <li>- Prof suggested when user click on a library, we will look up the ID of the library and replace and lat/Ing with the new coordinates.</li> </ul> <p>Cluster Analysis</p> <ul style="list-style-type: none"> <li>- Prof prefers us to complete the cluster analysis in R, so that our analysis is complete in 1 setting.</li> <li>- Prof asked what data are we going to use for the cluster analysis</li> <li>- Prof suggested that users should be able to select the headers which they want for cluster analysis</li> <li>- Building an application to conduct the entire cluster analysis</li> <li>- Select variables → Have modules that view the distribution → Allow users to transform → View transformed distribution → Select either normal/transformed for cluster analysis → Select k-means or hierarchical clustering methods → Interpretation of data</li> <li>- As we have our RFM data, we need to have a workflow.</li> <li>- MUST to cluster by patrons and not just any random variable</li> <li>- Refer to this link for the implementation: <a href="https://radiant-rstats.github.io/docs/tutorials.html">https://radiant-rstats.github.io/docs/tutorials.html</a></li> <li>- Raw data input is assuming that there are variables for R, F and M.</li> </ul> <p>Huff's Model</p> <ul style="list-style-type: none"> <li>- Alpha and beta will be calibrated ONLY when there is new data</li> </ul>		
<b>ACTION ITEMS</b>		<b>PERSON RESPONSIBLE</b>	<b>DEADLINE</b>
- As per mentioned above		All members	-

1500 - 1530

OTHER ISSUES

ALL MEMBERS

DISCUSSION	<p>Format of Documentation</p> <ul style="list-style-type: none"> <li>- Wiki page should be updated as it is</li> </ul>
------------	---

	<ul style="list-style-type: none"> <li>- Report should be written as a conference paper format – refer to Sugar App project last semester</li> <li>- A more design/UI format can refer to the HPB group 08 conference paper</li> <li>- Can mention selling point of our project – implementing the calibration in the UI, so that casual data analysts can do the same analysis without knowing R syntax</li> <li>- Saturday’s conference will be more on the formal research kind – methodology etc.</li> <li>- To do up a draft conference paper for Prof to take a look before Saturday</li> </ul> <p>Presentation</p> <ul style="list-style-type: none"> <li>- 1 person present the conference paper for 20 mins</li> <li>- Q&amp;A for all members (10 mins)</li> <li>- To do up slides on the content of the conference paper</li> <li>- Poster presentation will be around 5 mins to sell the idea of the group project</li> <li>- Prof will send up more details by tomorrow</li> </ul>		
ACTION ITEMS	PERSON RESPONSIBLE	DEADLINE	
- As per mentioned above	All members	-	
- Prepare for the final progress report and presentation	All members	25 <sup>th</sup> Nov 2016	
OBSERVERS	-		
SPECIAL NOTES	-		