

Date: 23/1/2017
Time: 1530-1630
Venue: GSR SIS 3.2

Attendees: Thavanesan s/o Sivananthan
Wang Tian Tong

(Previous group members)
Liu Bowei
Pong Chong Xin
Teo Hui Min

- Agenda:**
1. To clarify doubts with regards to application itself and the statistical models
 2. To clarify the previous group's progress with regards to the project and challenges they might have faced so that we can improve upon them
 3. To facilitate our understanding of the project so that we would be ready to present our findings to our supervisor.

	Task/ Description	Person-in-charge	Due Date
1	<p><u>Buffer function:</u></p> <p>Figuring out the significance of the buffer function. At the moment a buffer distance of 1.0km is recommended to be used for consistency in decision making due to the way huff's model has been hardcoded into the app. Probailities churned out for different distances cannot be used for comparison at the moment</p> <p>Improvement to be made: Figure a way to enable the varying of buffer distances to be useful in comporing probabilities</p> <p>OR</p> <p>Remove the function totally</p>	ALL	N.A.
2	<p><u>Patron segmentation function:</u></p> <p>Basically the dropdown boxes allow one to determine the variables they would like to transform and the variables they wouldn't.</p> <p>The mode of transformation used is lg (log to the power of 10) for the sake of convenience. Clustering will be done using k-means clustering.</p> <p>The results tab will show a line graph with cluster values on one axis and average</p>	ALL	N.A.

	<p>distance to centroid on another axis.</p> <p><u>Visualise Huff model function:</u></p> <p>Used to estimate the number of patrons in every subzone based on probability.</p> <p>Currently the alpha and beta values used for the huff's model function, are those values which have been derived from the OLS regression conducted. The regression returned an R square value of 0.6, which is the greatest level of significance obtainable at the moment.</p> <p>Standard error is also reflected when one rolls the mouse over the subzone to look at the results of the "visualize huff's model" function.</p>		
3	<p><u>Additional things we could look at for attractiveness index (suggested by previous group) :</u></p> <ul style="list-style-type: none"> - Content of library collections - Car Park Rates 	ALL	N.A.
4	<p><u>Difficulties/challenges faced:</u></p> <ul style="list-style-type: none"> - Currently all 3 tabs exist independently in the application. - It is possible to integrate the 1st two tabs into a single tab. But it is very hard to integrate the third tab (patron segmentation function) - The Huff's model add-on did not work for the group on R. Which is probably why our supervisor is suggesting that we try using the MCI add-on on R instead. - All of the subzones had to be individually coded into the application, they could not be integrated all at once. It was a huge hassle and was very time consuming for the group. 	ALL	N.A.

The meeting was adjourned at 1630 hrs. These minutes will be circulated and adopted if there are no amendments reported in the next 24 hours.

Prepared by, Thavanesan
Vetted and edited by, Thavanesan