Analytics Practicum Team Meeting 01

MINUTES	AUGUST 19, 2016	1500 - 1700	SMU SIS BUILDING LEVEL 3
MEETING CALLED BY	Hui Min		
TYPE OF MEETING	Project Proposal Preparation		
FACILITATOR	-		
NOTE TAKER	Chong Xin		
TIMEKEEPER	Chong Xin		
ATTENDEES	Chong Xin, Bowei, Hui Min		

Agenda topics

1500 - 1545	APPLICATION OF THE HUFF'S MODEL		ALL MEMBERS
DISCUSSION	 Why is there a need to match the different subzones to the We are using subzones as location parameter Column headings <i>Locale Planning ADZID</i> – need to ask Prof values) How do we define the starting and ending points of the dist Centroid of subzone? Coordinates of library? Distance plays a pivotal role in the Huff's Model, and any in and a library may result in inaccuracies in the model/system 	dataset? about what does each value represe cance parameter of the Huff's model accuracies in measuring the distanc n	ent (about 1000 unique ? e between a subzone
CONCLUSIONS	- To ask Prof about: (1) The column <i>Locale Planning ADZID</i> in the Patron dataset, and (2) How should we pinpoint the exact distance between a library and a subzone? E.g. coordinates of library, centroid of subzone, nearest point of subzone to the library?		
ACTION ITEMS		PERSON RESPONSIBLE	DEADLINE
- To ask Prof the above-mentioned in Supervisor Meeting 02		All members	Supervisor Meeting 02
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1545 - 1640

MARKET SEGMENTATION

ALL MEMBERS

DISCUSSION	 Define probability of a patron from subzone i visiting library j By dividing the (number of patron in each subzone i that y OR For each patron, find out the frequency of visits to each visiting each library (decided to go ahead with this approx To cluster patrons for each library To cluster patrons based on RFM model, and match the li To find out each patron's RFM value before proceeding w To refine project proposal RFM in NLB context Recency – dropped due to data irrelevance Frequency – number of visits in a year Monetary – average number of books per transaction 	visited a library j) by the (total n library, and integrate it into the bach) brary to its dominant cluster (ma ith clustering itiaLite	umber of patron in subzone i) • probability of the patron ain bulk of patrons)
CONCLUSIONS	 Loyalty – number of unique libraries visited (unsure) To determine the RFM values for each patron & thereafte To rethink whether there is a need for the "Loyalty" varia 	r conduct market segmentation ble in the RFM model	
ACTION ITEMS		PERSON RESPONSIBLE	DEADLINE
 All members Hui Min and plausibility in 	 All members to conduct the market segmentation to ensure correctness Hui Min and Bowei to research on Apache Sparks and SpatiaLite to check All members Team Meeting 02 		Team Meeting 02

DISCUSSION	 To have the supervisor meeting in-between our regular team meetings, so to facilitate discussion before and after each supervisor meetings Supervisor Meeting 02 to be scheduled on 24 August 2016 (Wed), to have Team Meeting 02 about an hour before and after Supervisor Meeting 02. 		
ACTION ITEMS		PERSON RESPONSIBLE	DEADLINE
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OBSERVERS	-
SPECIAL NOTES	Next Supervisor Meeting (02) will be tentatively scheduled on 24 August 2016 (Wed), subjected to Prof's availability. All members will present on their findings in the Team Meeting prior.