

## Supervisor Meeting Minutes #5

Date/Time	27 <sup>nd</sup> Mar 2018, 5.30pm to 6.30pm		
Venue	Singapore Management University, School of Information System Building, Meeting Room 4.6 80 Stamford Rd, Singapore 178902		
Attendees	Toh Ling Jing (Angie), Phang Shi Jia, Ryan Chia Cheng Yu		
Agenda	<ol> <li>Update supervisor on the project</li> <li>Consulting on finding from control chart</li> <li>Consulting on</li> </ol>		

Consulting on \_\_\_\_\_\_
 Consulting on monte carlo sitmulation model

S/N	Notes/Task	Actor	Follow-up Action
1.	<ul> <li>Update supervisor on the model that we have built – Monte Carlo stimulation</li> <li>Update supervisor on our refine control chart</li> </ul>	All	-
2.	<ul> <li>Update supervisor of the change of min and max value in our control chart using ± 3 sigma. Values that is above the UCL and LCL will be consist as outliers that we should flag out.</li> <li>Highlight various outliers that we spotted but not being able to find out what's the reason behind it.</li> <li>Supervisor stated that finding out the reason behind the outliers are beyond our job scope, Instead, we should highlight our finding to our client.</li> <li>For instance, significant outliers' patterns are spot for outlet in Yishun whereby there are a constant outlier between Nov 23 to Dec 20 across a few products. Client should monitor the outlets when such outliers is being spot from the control chart.</li> <li>Upon bringing up our concern if we should remove the outliers out from our prediction model, supervisor suggest that we shouldn't remove it from our model.</li> <li>Minor opinion from supervisor will be changing the display label of average to 2 decimal points</li> <li>Supervisor suggest that we might want to look into running control chart via JMP.</li> </ul>	All	Identify the outliers and present it to the client. Run control chart via JMP

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3.	• Exp use	blain to supervisor the fitting model that we to determine the significant of our variable.	All	Test the fitting of the model.				
	<ul> <li>Hig and</li> </ul>	hlight to supervisor that the day of the week holiday are not significant to our model.		Check which variable is				
	• To so. the	test the fitting of the model, use anova to do Low p value and high f value means to reject hypothesis that mean is a good prediction		significant.				
	<ul> <li>Sci see loo</li> </ul>	oll down the report to look at the estimator to which variable is significant. To look so, k at the p value. Lowest than 0.005						
	<ul> <li>Loc the ave affe</li> </ul>	ok at those 47 outlets, highlight that not all are same, most of them are the same, moving erage is good indicators but some are ected by day of the week						
	<ul> <li>Tal wh</li> </ul>	ke the historical pattern and try to forecast at will be the next order						
4.	• The ins	e dependent variable should not be our lag tead the actual time series demand, quantity	All	Run clustering analysis to cluster				
	• Re	move the holiday and month		product with similar				
	Up     mo     to	date supervisor on the next step to do for our del which is running the time series analysis cluster products with the same time series		together.				
	pat Up run	tern together using the wrapping method. on clustering the products together, we will our monte carlo simulation model.		Test the accuracy of the monte carlo simulation				
	Ne     mo     to t	xt, we will be testing the accuracy of the del by taking out one-week worth of data out est the accuracy of the model.						
	• Usi a s	ng by function to run model for all stores for pecific product						