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ISSS608 VISUAL ANALYTICS AND APPLICATIONS

PROJECT MEETING MINUTES

PROJECT GROUP 7 AY2021-22T3

STUDENT NAMES/ STUDENT ID: ALOYSIUS TENG (01451239), CHE XUAN (01451161), CHU YI NING (01448013)

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| 11 May 2022 | Project Group 7 |

**MINUTES FOR MEETING OF ON 11 MAR 2022**

**IN ATTENDANCE**

Aloysius Teng

Che Xuan

Chu Yi Ning

**ABSENT**

NIL

**OTHERS IN ATTENDANCE**

NIL

**AGENDA ITEMS**

1. Selection of VAST challenge
2. Shiny App Design
3. Business Performance
4. Financial Health of Resident
5. Employment Patterns

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| **INTRODUCTION** | **ACTION BY** | |
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| 1. The meeting was held via Teleconference call and commenced at 09:00PM. | Nil |
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| **ITEM 1: SELECTION OF VAST CHALLENGE** |  |
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| 1. Selection of VAST Challenge. Che Xuan proposed that challenge 3 be selected for the project as it would be the first challenge tackled during the take-home exercises which would give the team more time to refine its work. He added that when the other challenges are tackled in later take-home exercises, this decision could be reviewed and changed. Aloysius and Yi Ning concurred. | Nil |
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| **ITEM 2: SHINY APP DESIGN** |  |
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| 1. Main Page Dashboard. Yi Ning suggested that main page of the Shiny App contain a dashboard with scores for to the business performance, financial health of residents and employment pattern for the city of Engagement Ohio. Included in the dashboard would be a weighted average of the 3 scores and the whole dashboard could be adjusted with a date slider, hence allowing the user to see the financial health of the city over time. Aloysius and Che Xuan concurred. | Nil |
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| 1. Details of Analysis. Yi Ning suggested that through the main page, the user can select either of the 3 scores which would lead to the app displaying the detailed analysis of that aspect of the city’s financial health (business performance, financial health of residents and employment pattern). Che Xuan and Yi Ning concurred. | Nil |
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| **ITEM 3: BUSINESS PERFORMANCE** |  |
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| 1. Revenue. Aloysius proposed analysing pubs by their monthly revenue and displaying them with a line graph. An animated geom\_point plot showing the revenue per customer vs the number of customers through time could also be created. Che Xuan and Yi Ning concurred. | Nil |
| 1. Occupancy Rate. Aloysius proposed that a good measure of the current business performance for pubs is to display the occupancy rate throughout the day. He proposed using the average occupancy rate for Fridays and Saturdays for the last month of the available data. Che Xuan and Yi Ning concurred. Aloysius added that similar analysis could be done for restaurants. | Nil |
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| **ITEM 4: FINANCIAL HEALTH OF RESIDENT** |  |
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| 1. Work Commute. Yi Ning proposed that a good indicator of resident financial health is their disposal income which can be gauged by aggregating their expenditure on recreation. Aloysius and Che Xuan concurred. | Nil |
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| 1. Cost of Living vs Wage. Yi Ning proposed summing up the expenditure for food, shelter, and education as a reflection cost of living. This would then be compared to the monthly wages for each resident. Aloysius and Che Xuan concurred.   **Question: What does “RentAdjustment” under the “Category” column for the FinancialJounal data table mean?** | Nil |
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| **ITEM 5: EMPLOYMENT PATTERNS** |  |
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| 1. Travel to Work. Che Xuan proposed that a good measure of the employment pattern in the city was the total number of trips to work across time on a monthly basis. Aloysius and Yi Ning Concurred. | Nil |
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| 1. Turnover Rate. Che Xuan suggested that the work commute data could be used to identify the resident’s employer at each time step. By finding the changes in the resident’s employer, the turnover rate for each employer could then be computed over time. This information would be displayed on a map to observe the changes in employment pattern across geographical location. Aloysius and Yi Ning concurred, | Nil |
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| **CONCLUSION** |  |
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| 1. The meeting ended on 11 May 2022 at 11:00 PM. | Nil |
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| 1. The meeting agreed that the next meeting will be held on 14 May 2022, 15:15 PM at SMU SCIS. | Nil |

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| Written By | : | Aloysius Teng |
| Vetted and Approved By | : | Che Xuan  Chu Yi Ning |