

Continuous Assessment:

- (i) **Data Visualisation and Storytelling - Dashboard for KPI (Metrics)**
- (ii) **Business Intelligence (Data Modelling and Data Warehousing)**

Weightage: 20% / **Group:** 4 - 5 students per group

Online Balance Scorecard for Singapore

Objective:

- (i) To apply the concept of
 - a. Business Intelligence with Data Modelling/Management and Data Warehousing
 - b. Data visualisation (Graphical Excellence and Graphical Integrity)
 - c. Dashboarding for KPI using Goal-Question-Metrics approach
- (ii) To create a data dashboard for analytical purpose

Task:

- (i) To identify business **goals** and derive an interesting **questions** to be answered
- (ii) To collect & analyse Singapore related data (especially from data.gov.sg)
- (iii) To identify measurement (**metrics**) for the KPI
- (iv) To design and implement dashboard for analytical purpose

Grading:

(5%) Presentation on Day 5, July 20 (Friday) consist of the following details. These will be the grading criteria.

- (i) Business problem statement (1 slide)
- (ii) Data collection and data modelling (1 slide)
- (iii) Architecture design for analytical purpose (1 slide)
- (iv) Design of data visualization, graphical excellence and graphical integrity (2 slide)

(15%) CA submission

- (v) **Data Collection:** process of data collection
- (vi) **Technical approach:** Extract data from database/warehouse to perform analytics task for your business problem statement

- (vii) **Dashboard Design:**
 - a. Best Practices of Graphical Excellence and Graphical Integrity
 - b. Do and Don't for Dashboard creation
- (viii) **Submissions uploaded into IVLE:**
 - a. Presentation slides (up to 8 slides)
 - b. Complete working dashboard solution file
 - c. Report (docx document)
 - d. 1 Zip file per team, zip all your files into single zipped file
 - e. Due date: 12 August (Sunday)