BI and Business Analytics

Project

**This is a team project, team size as discussed in class.**

**Note: The Presentation/Demonstration/Viva is mandatory. If you do not turn up for the oral examination, the project report will NOT be assessed, and you would be awarded ZERO marks.**

# Project Outline

You have been hired by an organisation of your choice to oversee the selection and implementation of a full suite of BI and Business Analytics systems. Your proposed solution must be scalable, low cost and capable of being deployed swiftly.

1. Prepare a project specification document detailing:

* 1. Background information on the organisation, the marketplace in which they participate and the scope of processes to be considered

* 1. An appropriate system design, showing data capture points, analytics requirements etc. Discuss how the solution might integrate customers in the process. Your design should also consider the key analytical requirements for reports, views and dashboards
  2. A database design, including entity-relationship diagrams and a data dictionary, showing the data structures, fields and relationships.

1. Using tools and platforms covered in the labs:

* 1. Configure data structures to accommodate the design identified during your analysis

* 1. Configure the business rules (field checks, workflows etc.) as per the requirements identified in the analysis phase

* 1. Populate the solution with sufficient test data to demonstrate all the features of the solution

* 1. Build reports and management dashboards to meet the analytical requirements discussed in your analysis

1. Produce an implementation report, building on the project specification report that:

* 1. Describes the development process and details the final architecture, process control features as well as the operations and benefits of the solution

* 1. Through the inclusion of screen-shots of the system developed in part 2, shows Objects (including access controls), Custom Fields, Field Sets, Relationships, Layouts, Validation Rules, Record Types, Lookups, Filters, and Triggers, showing how they fulfil the data management portion of the solution

* 1. Includes screen-shots of the reports and dashboards used in the solution, demonstrating how they fulfil the management reporting part of the solution

* 1. Reflects on and discusses how well the team worked together to achieve the objectives of the project

# Team Member Workload Distribution

Each team member MUST separately submit a page detailing the extent to which each student team member contributed, percentage-wise, to the project. Percentages may not be equal and must total to 100%. This is different from the reflection on the team-working aspect of the project that forms part of the report, which is designed to shed light on the group's collaboration and communication difficulties and how they were addressed.

For each of the students, we will calculate a deviation from the mean workload based on the submissions of the other team members. Those who have a positive deviation receive the group mark. Those with negative deviations will have marks deducted, with the amount of marks deducted being the deviation from the mean. Examples are given in the tables below.

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# Deadlines

As per the CA schedule available on Moodle.

Submissions not made through Moodle cannot be accepted!

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