Strategic ICT & E-Business Implementation

Assessment Project

September 2018

Project Outline

You have been hired by an organisation of your choice to oversee the selection and implementation of a strategic management information system. Your proposed solution must be scalable, low cost and capable of being deployed swiftly.

1. Prepare a project specification document detailing:

   (a) Background information on the organisation, the marketplace in which they participate and the scope of processes to be considered;

   (b) The rationale for selecting an appropriate infrastructure and the associated bene ts/risks of that infrastructure;

   (c) An appropriate system design, using process ow diagrams, 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 a management dashboard and include details of the access and authorisation features of your solution; and

   (d) A database design, including entity-relationship diagrams and a data dictionary, showing the data structures, fields, relationships and process control features;

2. Using the Salesforce[1] platform:

   (a) Configure data structures and access controls to accommodate the design identified during your analysis;

   (b) Configure the business rules (field checks, workflows etc) as per the requirements identified in the analysis phase;

   (c) Create a basic web integration solution to allow the capture of data from a web page into the system;

   (d) Populate the solution with sufficient test data to demonstrate all the features of the solution;

   (e) Build reports and management dashboards to meet the analytical requirements discussed in your analysis;

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

   (a) Describes the development process and details the final architecture, process control features as well as the operations and benefits of the solution;

   (b) 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

   (c) Includes screen-shots of the reports and dashboards used in the solution, demonstrating how they fulfil the management reporting part of the solution;

   (d) Clearly shows the web capture portion of the project and details how it integrates with the solution; and

   (e) Reflects on and discusses how well the team worked together to achieve the objectives of the project

[1] To activate a free developer licence to Salesforce see https://developer.salesforce.com/signup

Team Member Workload Distribution

The report should be accompanied by a separate 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. 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.

Example 1 - Group with a mark of 60%

	Workload Distribution	Deviation from mean	Group Mark	Student Mark
Student 1	25.00%	0	60	60
Student 2	28.00%	3	60	60
Student 3	23.00%	-2	60	58
Student 4	24.00%	-1	60	59
	100.00%			

Example 2 - Group with a mark of 75%

	Workload Distribution	Deviation from mean	Group Mark	Student Mark
Student 1	21.00%	-4	75	71
Student 2	32.00%	7	75	75
Student 3	29.00%	4	75	75
Student 4	18.00%	-7	75	68
	100.00%			

Deadlines

Part 1 due by Wednesday 23:59 11th November 2018 at the latest
Parts 2/3 due by Wednesday 23:59 16th December 2018 at the latest
Submissions not made through Moodle or submitted after the deadlines shown cannot be accepted!