**ASSIGNMENT 1 BRIEF**

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| **Qualification** | **BTEC Level 5 HND Computing and Systems Development** | | |
| **Unit number and title** | Unit 17: Database Design Concepts | | |
| **Assignment issued** |  | **Assignment due** |  |
| **Assessor name** |  | | |

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| **Assignment title** | **Understand databases and data management systems**  This assignment considers the skills required to demonstrate knowledge and understanding in relation to databases and data management systems. This assignment will cover Learning Outcome 1 of this unit.  This assignment will be broken into tasks and you can use these tasks as sections/pages within your assignment. |
| **Aim of the assignment** | This assignment satisfies the following learning outcomes and assessment criteria:  **LO 1. Understand databases and data management systems**  1.1 analyse the key issues and application of databases within organisational environments  1.2 critically evaluate the features and advantages of database management systems |
| **Specific requirements**  *(see Appendix for assessment criteria and grade descriptors)* | Introduction and Existing Scenario Selling/buying online is a rapidly growing field in the country. There are many office employees who have the demand to open small online stores as their part-time job to gain some extra money.  Nowadays, the life of everybody being very hectic, it becomes difficult for people to visit offline shops, specify the criteria or requirements and find a suitable and comfortable choice before buying products. Proposed Solution Selling site as an online platform is a solution that will connect product sellers and buyers. The site should focus on all products of many categories including (but not limited to) office, clothing, foot-wears, cosmetics, etc. This site helps to search buy and sell products and also find useful information & resources to help users take wise and an informed decision before buying the product. Functional Requirements A system needs to be developed based on following requirements for following users: Visitor Section  * Browse categories * Basic search on homepage * Advanced search with additional parameters * Featured listings on homepage along with thumbnail images * Delivery information and fees * Purchase product * Add/view Feedback/comment/review on a product * Signup  The admin must be able to  * Manage the categories of the product * Manage the product details * Manage the stock of products  The seller must be able to  * Search for products by keywords, categories * Add/edit/delete/activate/deactivate customer * Add/edit/delete/activate/deactivate product reviews * Approve the customer signup  Reports (for sellers)  * View payment transaction history by date range with payment details * View statistics such as   + payments received today   + products and their stock information   + list of categories   + list of customers   **Task 1: Understand databases and data management systems (LO 1, 1.1, 1.2 and M3)**  **In this task you are required to prepare a report with the following points**  - Define relational databases  - Identify major relational database management systems  - Identify main characteristics of relational databases  - Understand SQL’s roles (i.e., importance of SQL) in relational database  - Recognize some indications of where a database could be useful and specify why, in this scenario (OnlineShop), a DB is needed.  - Define a statement of work for above given database scenario  ***Hint****: Refer to Chapter 1 of the Textbook of this course to know how to do these. Please remember not to copy the book, you should rephrase in your own understanding/cite/and references.* |
| **Student guidelines** | 1. You should write this assignment in the essay style, although a formal essay structure will not be required.  2. You should use tables, diagrams and figures where appropriate and be sure to give sources of information.  3. You should include a list of references to all cited sources using the Harvard referencing system.  4. You should use font Calibri size 12 with 1.5 spacing for your report. |
| **Submission requirements** | Besides the soft copy with  1. Your report  Students are expected to submit hard copy of the report |

**APPENDIX 1: ASSESSMENT CRITERIA AND GRADE DESCRIPTORS**

**Merit grade:**

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| **Merit descriptors** | **Indicative characteristics** | **Contextualization** |
| M1 Identify and apply strategies to find appropriate solutions | Not in this assignment |  |
| M2 Select/design and apply appropriate methods/techniques | Not in this assignment |  |
| M3 Present and communicate appropriate findings | 1. The communication is appropriate for familiar and unfamiliar audiences and appropriate media have been used | To achieve M3 you must produce relevant, coherent and appropriate language suitable for the target audience. Appropriate technical language will have been used. |

**Distinction grade:**

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| **Distinction descriptors** | **Indicative characteristics** | **Contextualization** |
| D1 Use critical reflection to evaluate own work and justify valid conclusions | Not this assignment |  |
| D2 Take responsibility for managing and organising activities | Not this assignment |  |
| D3 Demonstrate convergent/lateral/creative thinking | Not this assignment |  |

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| This brief has been verified as being fit for purpose | | | | | |
| **Internal Verifier 1** |  | Signature |  | Date |  |
| **Internal Verifier 2** |  | Signature |  | Date |  |