**ASSIGNMENT 3 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** | **Evaluating and Documenting Databases**  This assignment considers the skills required to demonstrate knowledge and understanding in relation to evaluating and documenting databases. This assignment will cover Learning Outcome 3 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:  **LO3 Be able to design, create and document databases**  3.3 evaluate the effectiveness of the database solution and suggest methods of improvement  3.4 provide supporting user and technical documentation. |
| **Specific requirements**  *(see Appendix for assessment criteria and grade descriptors)* | **Scenario**  Please see the Assignment Brief 1 for details of the scenario description.  **Task 1 (LO3 3.3, M1, M3, D1, D2, D3)**  Besides feedback from your tutor, create a questionnaires regarding your source code implemented in Assignment 2, send it to your peers before your assignment 2 presentation. Ask them to give feedback for you.  Please write a report to evaluate the effectiveness (whether your implementation satisfies the requirements) and appropriate improvements based on feedbacks gathered.  **Task 2 (LO3, 3.4, M3)**  Create a booklet for user manual which includes all of the following items  1. Overview of your database  2. Adding new category  - Create screen  - Guide how to use this screen (step 1, step 2, step 3, etc…)  3. Adding new item  - Create screen  - Guide how to use this screen (step 1, step 2, step 3, etc…)  4. Signup  - Create screen  - Guide how to use this screen (step 1, step 2, step 3, etc…)  5. Home page: Listing categories and featured products per category  - Create screen/screens  - Guide how to use this screen (step 1, step 2, step 3, etc…)  6. Home page: View products by category  - Create screen/screens  - Guide how to use this screen (step 1, step 2, step 3, etc…)  7. Search for product on homepage  - Create screen/screens  - Guide how to use this screen (step 1, step 2, step 3, etc…)  8. Purchase products  - Create screen/screens  - Guide how to use this screen (step 1, step 2, step 3, etc…)  9. Viewing sale report from a specified date range  - Create screen/screens  - Guide how to use this screen (step 1, step 2, step 3, etc…)  **Task 3 (LO3, 3.4, M3)**  Create a technical booklet with the following items  1. Database overview  2. Use case diagrams for the Database  3. Entity Relationship Diagram  4. Normalization statements (up to 3rd Normal Form)  5. Possible improvements  6. Latest updated date and current version |
| **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. A report for task 1  2. A booklet for task 2  3. A booklet for task 3  Students are expected to submit hard copies of these documents |

**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 | * Effective judgments have been made * Complex problems with more than one variable have been explored * An effective approach to study and research has been applied | To achieve M1 you need to make judgments for every decision you make while designing, developing your database (Task 1) |
| M2 Select/design and apply appropriate methods/techniques | * Not in this assignment |  |
| M3 Present and communicate appropriate findings | * The appropriate structure and approach has been used * Coherent, logical development of principles/concepts for the intended audience   A range of methods of presentation have been used and technical language has been accurately used | To achieve M3 you must produce relevant, coherent and appropriate language suitable for the target audience. Appropriate technical language will have been used. (All tasks) |

**Distinction grade:**

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| **Distinction descriptors** | **Indicative characteristics** | **Contextualization** |
| D1 Use critical reflection to evaluate own work and justify valid conclusions | * Conclusions have been arrived at through synthesis of ideas and have been justified * Realistic improvements have been proposed against defined characteristics for success | To achieve D1  Conclusions have been arrived at through synthesis of ideas and have been justified  Realistic improvements have been proposed  (Please check for the evidence in task 1) |
| D2 Take responsibility for managing and organising activities | * Autonomy/independence has been demonstrated * Substantial activities, projects or investigations have been planned, managed and organized * Activities have been managed * The unforeseen has been accommodated * The importance of interdependence has been recognized and achieved | To achieve D2, autonomy/independence has been demonstrated. Student managed and completed all tasks on time (check form all tasks). |
| D3 Demonstrate convergent/lateral/creative thinking | * Ideas have been generated and decisions taken * Self-evaluation has taken place * Convergent and lateral thinking have been applied * Problems have been solved * Innovation and creative thought have been applied | To achieve D3, problem has been solved  Innovation and creative thought have been applied  Self-evaluation has been taken place  Check for evidence from task 1 |

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