# Assignment Brief 1 (RQF)

## Higher National Certificate/Diploma in Computing

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| **Student Name/ID Number:** |  |
| **Unit Number and Title:** | **Unit 04: Database Design & Development** |
| **Academic Year:** | **2022** |
| **Unit Assessor:** | **Tran Trong Minh** |
| **Assignment Title:** | **Database design** |
| **Issue Date:** | **18 Jan 2022** |
| **Submission Date:** |  |
| **Internal Verifier Name:** |  |
| **Date:** |  |

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| **Submission Format:** |
| *Format:*   * The submission is in the form of an individual written report. This should be written in a concise, formal business style using single spacing and font size 12. You are required to make use of headings, paragraphs and subsections as appropriate, and all work must be supported with research and referenced using the Harvard referencing system. Please also provide a bibliography using the Harvard referencing system.   *Submission*   * Students are compulsory to submit the assignment in due date and in a way requested by the Tutor. * The form of submission will be a soft copy posted on <http://cms.greenwich.edu.vn/>. * Remember to convert the word file into PDF file before the submission on CMS.   *Note:*   * The individual Assignment *must* be your own work, and not copied by or from another student. * If you use ideas, quotes or data (such as diagrams) from books, journals or other sources, you must reference your sources, using the Harvard style. * Make sure that you understand and follow the guidelines to avoid plagiarism. Failure to comply this requirement will result in a failed assignment. |
| **Unit Learning Outcomes:** |
| **LO1** Use an appropriate design tool to design a relational database system for a substantial problem |
| **Assignment Brief and Guidance:** |
| You are employed as a Database Developer for a large IT consultancy company. The company has been approached by **FPT Shop** which is expanding due to the growth of the number of stores. **FPT Shop** is currently facing difficulties in dealing with managing the database from all shops on over country. It decided to develop a new database so that: **users can register with their phone numbers as IDs and order or rate, comment for their bought devices, shop managers can take care for their stores and director board can view all data from all shops.**  You are tasked to select one of those systems to develop database for FPT Shop. Your tasks are to:   * Work with FPT Shop to find out about current requirements for each system * Analyse the requirements and produce clear statements of user and system requirements. * Design a relational database system using appropriate design tools and techniques * Develop a fully functional relational database system, based on an existing system design. * Test the system against user and system requirements. * Produce technical and user documentation   **Part 1 (Assignment 1)**  Before you start the development process, your manager has asked you to produce a report for the CEO of FPT, containing:   1. Clear statements of user and system requirements. The system must have at least 3 user roles, including business processes and statistical reports for FPT Shop managers. 2. The design of the relational database system using appropriate design tools and techniques. It should contain at least four interrelated tables.   *You would prefer to produce a more detailed document, so you will produce a comprehensive design for a fully functional system which will include interface and output designs, data validations and cover data normalization.*  *Your manager would like on the report your assessment of the effectiveness of the design in relation to user and system requirements.* |

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| **Learning Outcomes and Assessment Criteria (Assignment 1):** | | | |
| Learning Outcome | Pass | Merit | Distinction |
| LO1 | **P1** Design a relational database system using appropriate design tools and techniques, containing at least four interrelated tables, with clear statements of user and system requirements. | **M1** Produce a comprehensive design for a fully functional system which includes interface and output designs, data validations and data normalisation. | **D1** Assess the effectiveness of the design in relation to user and system requirements. |