**ASSIGNMENT 1 BRIEF**

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| **Qualification** | **BTEC Level 5 HND Diploma in Computing** | | |
| **Unit number** | Unit 30: Application Development | | |
| **Assignment title** | Analysis and Design solution for a given problem | | |
| **Academic Year** | 2018-2019 | | |
| **Unit Tutor** |  | | |
| **Issue date** |  | **Submission date** |  |

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| **Submission Format:** |
| Submissions include 3 documents:   * A software design document in Word format. Writing must be professional. * An evaluation document in Word format. Writing must be professional. * A presentation document in Powerpoint format. |
| **Assignment Brief and Guidance:** |
| **Scenario**: As the technology is being developed rapidly nowadays, FPT Co. desires to build the  continuing study environment throughout the corporation. It is necessary to develop a system, which manages the activity of “Training” for internal training program of the company. This system can be used to manage trainee accounts, manage trainers, manage course categories, manage courses, manage topics, assign topic to course, assign trainer to topic, assign trainee to course.  This is a system used by HR department. We have three roles in this system, an administrator, training staff and a trainer. The detailed description of those roles can be viewed in the attached document (Requirements.docx).  **Tasks**  You and your team need to prepare a software design document with the following sections:   * A requirement specification which explores the problem by a set of user and system requirements, as well as determine any risks related to the successful completion of your application. You are advised to use an SRS template or modify one to complete this task. * An evaluation section in which you research the use of software development tools and techniques and identify any that have been selected for the development of this application. You should compare them and justify your choices. * A design section in which you use chosen tools from previous step to produce design diagrams for your solution based on the requirement specification.   Your team also needs to present your work based on this documents. |

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| **Learning Outcomes and Assessment Criteria** | | |
| **Pass** | **Merit** | **Distinction** |
| **LO1** Produce a Software Design Document by analysing a business-related problem and deduce an appropriate solution including a set of initial requirements | | **LO1 & 2**  **D1** Justify the tools and techniques chosen to realise a custom built website. Justify your preferred selection of tools and techniques in deducing an appropriate solution to a business related problem. |
| **P1** Explore a business-related problem and produce a well-defined Problem Definition Statement supported by a set of user and system requirements.  **P2** Determine any areas of risk related to the successful completion of your application. | **M1** Analyse a business-related problem using appropriate methods and produce a well-structured Software Design Document that defines a proposed solution and includes relevant details on requirements, system analysis, system design, coding, testing and implementation. |
| **LO2** Use design and development methodologies with tools and techniques associated with the creation of a business application | |
| **P3** Research the use of software development tools and techniques and identify any that have been selected for the development of this application. | **M2** Compare the differences between the various software development tools and techniques researched and justify your preferred selection as well as your preferred software development methodology. |