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| Pearson  Higher Nationals in | | |
| Computing | | |
| EXAMPLE ASSESSMENT BRIEF | | |
| Unit: | 30 Application Development | |
| For use with the Higher National Certificate and  Higher National Diploma in Computing | | |
| Brief Number: | | 1 |
| First teaching from September 2017 | | |
| **Issue** | **1** | |



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Higher National Certificate/Diploma in

Computing

Example Assessment Brief

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| Student Name/ID Number |  |
| **Unit Number and Title** | **30: Application Development** |
| Academic Year |  |
| Unit Tutor |  |
| **Assignment Title** | **APPCOMX – Application Development Competition** |
| **Issue Date** |  |
| Submission Date |  |
| IV Name & Date |  |

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| **Submission Format** |
| The submission is in the form of five documents/files:   1. Stage 1 – Software Design Document; valid formats: DOC or DOCX. 2. Stage 2 – Report (Build Environment Review); valid formats: DOC or DOCX. 3. Stage 3 – Pitch Presentation (including extended notes covering feedback and explaining and justifying new ideas, insights, etc.); valid formats: PPT, PPTX. 4. Stage 4 – Report (Evaluation Report) including fully commented source code; valid formats: DOC or DOCX. 5. An installable and executable version of your business application.   You are required to make use of appropriate structure, including headings, paragraphs, subsections and illustrations as appropriate, and all work must be supported with research and referenced using the Harvard referencing system. |

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| **Unit Learning Outcomes** |
| **LO1** Produce a Software Design Document by analysing a business-related problem and deduce an appropriate solution including a set of initial requirements. **LO2** Use design and development methodologies with tools and techniques associated with the creation of a business application. **LO3** Work individually and as part of a team to plan and produce a functional business application with support documentation.  **LO4** Evaluate the performance of a business application against its Software Design Document and initial requirements. |
| **Assignment Brief and Guidance** |
| \*Please note that assignment guidance is for reference only and should be more specific in detail to meet customised needs.  For the past six months you have been working for a leading software design and development company located in the city centre. You arrive one morning to find that the company is running an internal app development competition called ‘APPCOMX’. Your manager suggests that this would be a great opportunity for you to demonstrate your capabilities by designing and developing an original business-based application. After considering all the options, you and several other colleagues decide to enter the competition.  The competition is divided into four separate stages.  **Stage 1: Proposal**  Produce a fully formed Software Design Document to identify and set out your application. To do this you will need to analyse a business-related problem and deduce an appropriate solution, including establishing a set of initial requirements.  **Stage 2: Build Environment Review** Establish an appropriate environment in which to design and develop your application. To do this you will need to research and compare different software tools, techniques, and methodologies. Once you have reviewed the options you will need to justify your preferred build choices in a report.  **Stage 3: Peer review and Development** Although you work as part of a team, most of your development will be done individually. However, after you have completed Stage 2, you must prepare and present a formal pitch and peer review to highlight and explain your application. Interpret and justify any appropriate feedback that can help you refine or improve your work. Once complete, continue your development.  **Stage 4: Demonstration and Evaluation Report** As the competition draws to a close you will be issued with a specific date and time during which you will be expected to present and demonstrate your functional business application. This is your opportunity to really ‘sell’ your effort and all your hard work. You should carefully plan and prepare for this demo, consider what features you want to highlight and ensure that you tell the development story (e.g. what were your technical challenges, unexpected issues, successes, failures, etc.). Once you have completed your demo you will need to provide an appropriate, documented evaluation of the system (including a copy of your fully commented source code) and an installable (and executable) version of your business application.  \*Please access HN Global for additional resources support and reading for this unit. For further guidance and support on report writing please refer to the Study Skills Unit on HN Global. Link to www.highernationals.com |

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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. |
| **LO3** Work individually and as part of a team to plan and produce a functional business application with support documentation | | **D2** Evaluate any new insights, ideas or potential improvements to your system and justify the reasons why you have chosen to include (or not to include) them as part of this business application. |
| **P4** Create a formal presentation that effectively reviews your business application, problem definition statement, proposed solution and development strategy. Use this presentation as part of a peer-review and document any feedback given.  **P5** Develop a functional business application based on a specified business problem. | **M3** Interpret your peer-review feedback and identify opportunities not previously considered.  **M4** Develop a functional business application based on a specific Software Design Document with supportive evidence of using the preferred tools, techniques and methodologies. |
| **LO4** Evaluate the performance of a business application against its Software Design Document and initial requirements | |  |
| **P6** Review the performance of your business application against the Problem Definition Statement and initial requirements. | **M5** Analyse the factors that influence the performance of a business application and use them to undertake a critical review of the design, development and testing stages of your application. Conclude your review by reflectively discussing your previously identified risks. | **D3** Critically evaluate the strengths and weaknesses of your business application and fully justify opportunities for improvement and further development. |