Assessment Notification

**Course: Information Processes and Technologies**

**Task Topic: Multimedia Systems and Project Management**

**Year: 2020**

**Task Details:**

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| **Assessment Task No. 3** | | **Due Date: Term 3 Week 1 Friday** | **Weighting:40%** |  |
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| **Submission Instructions** | | | | |
| * Students are required to submit their assignments online (via Google Drive) before 11:55pm on the due date. * Students are required to work individually to complete the assessment task. * Complete all tasks. Students should submit all components of the assessment. * It is expected that students will complete the task by the end of Term 3 week 1. Standard College penalties and procedures apply for late submissions. | | | | |
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| **Outcomes to be assessed** | | | | |
| *This assessment will establish whether the student is able to:* | | | | |
| H1.1 | applies and explains an understanding of the nature and function of information technologies to a specific practical situation | | | |
| H1.2 | Explains and justifies the way in which information systems relate to information processes in a specific context | | | |
| H2.2 | develops and explains solutions for an identified need which address all of the information processes | | | |
| H3.1 | evaluates and discusses the effect of information systems on the individual, society and the environment | | | |
| H4.1 | proposes and justifies ways in which information systems will meet emerging needs | | | |
| H5.1 | justifies the selection and use of appropriate resources and tools to effectively develop and manage projects | | | |
| H5.2 | assesses the ethical implications of selecting and using specific resources and tools, recommends and justifies the choices | | | |
| H6.1 | analyses situations, identifies needs, proposes and then develops solutions | | | |
| H6.2 | selects, justifies and applies methodical approaches to planning, designing or implementing solutions | | | |
| H7.1 | implements and explains effective management techniques | | | |
| H7.2 | uses methods to thoroughly document the development of individual and team | | | |
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| **Context for the task** | | | | |
| This task requires students to draw on their learning, from the topics “Project management” and “Multimedia”.  Information systems arise out of problems, needs and opportunities that involve people and data.  The development and implementation of an effective information system requires the combination of a broad range of knowledge and skills, including a firm grasp of the information processes, the creativity to construct an unidentified solution to a poorly defined problem, and a command of numerous project management techniques. | | | | |
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| **Task Description** | | | | |
| The St Pius X College senior executive is currently interested in bolstering the amount of digital multimedia content available to students and staff for the purpose of supporting and encouraging effective teaching and learning, particularly of higher order concepts and skills.  **Each student is required to select a unique topic or unit of work associated with a specific subject within the school, and for that unit create a content-diverse multimedia product that can be accessed through an online hub.**  All media types must be clearly evident in the final product, and should be employed in a way that creatively and professionally showcases the unique strengths of each type.  Explicit project management techniques, as laid out in the System Development Life Cycle, are to be integrated into the designer’s operational approach to this task.  Participants are permitted to choose between (a) building their system as an extension of the current school cloud-based intranet or (b) constructing an independent system with their selection of authoring, scripting or programming software. | | | | |
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| **Task Requirements** | | | | |
| **In order to undertake this task you need to:**  This assessment task is comprised of three well-defined chronological stages. Each requires the submission of certain deliverables that relate to the stage.  **1. Planning Stage: due Monday (Week 2, Term 2)**  In the first stage, significant time and effort must be invested to investigation and planning to ensure that later work is appropriately and efficiently directed. At the end of this stage, participants are required to submit a **Requirements Report** that:   * Articulates a clear understanding of the system’s purpose * Identifies an appropriate set of concrete objectives that will function co-operatively to achieve the system purpose (these may include rich multimedia-based assessment tasks, presentations, instructional videos, web quests, alternate reality games, or other resources up to the discretion of the system designer) * Proposes two incremental deliveries of potential designs and components that align with these objectives.   + The functionality of each increment should be a subset of the entire system.   + Outlines a realistic schedule for the completion of the proposed components that takes into account the complexity of each component, constraints placed upon the designer, and delays associated with external sources of data.   **2. Incremental Development Stage: due Friday (Week 5, Term 2)**  In the second stage, participants must demonstrate a practical understanding of the Agile Incremental development approach by producing **Incremental Release 1** of their multimedia system that will lead to the Final release candidate produced in the Implementation Stage.  The Incremental Release needs to clearly identify functionality that can be delivered in the **4 week iteration**, with an explanation of the specific benefits these features will provide in the first release: the final deliverable should show specific progressions made in direct response to the preceding release's shortcomings.  Thus, while the incremental & final release will be submitted simultaneously at the end of the development & implementation stage, they must be scheduled by participants to be completed in a timeline that provides time for each incremental release to be trialed and evaluated by potential users of the system.   * System testers should represent an appropriate cross-section of the school population. * In order to ensure that relevant and critical feedback is supplied by testers, they should be provided with a structured pro forma to guide their evaluation of your system. * The entire feedback process must be documented and explicit connections must be made between the evaluations of users and the subsequent advances to the Incremental Release.   At the end of this stage, participants are required to submit the following:   * **Incremental Release 1**: this version of the multimedia system must demonstrate some of the essential functional features and how they function together to achieve the system’s purpose * **User Test Plan** for testing of these features. The focus of the test should be on how successful the release is in providing an intuitive and helpful user experience for those who will use the system. The most likely testers for the Incremental Release are a selection of users from the system’s intended audience. * **Documentation of feedback** from potential users and resultant changes required to be made for the Release Candidate.   **3. Implementation Stage: due Friday (Week 1, Term 3)**  In the third stage after **a further 3 week iteration**, a single release candidate will be produced and distributed to the general school population for a final period of evaluation.  Following the first incremental release, there will be a dual focus on the refinement of the final product and on reflection upon the entire system development process. At the end of this stage, participants are required to submit the following:   * **Final product:** the completed multimedia system, either uploaded to the school’s intranet or delivered physically for uploading to an external file server * **Final Testing Report**: A separate document that includes test plan and results of the Final Test.  The Final test incorporates most of the original tests and any modifications resulting from that test, and also includes testing and feedback of the additional elements to the first increment user test * **Project Evaluation report:**    + Included in the Final Deliverable will be a 600 word article incorporating the following elements:   + Rationale for the specific components included in the multimedia system (with regard to the usefulness of each media type and the achievement of the system’s purpose)   + Outline of the key difficulties encountered during the development process   + Evaluation of the project management techniques used in the design and production of the final product | | | | |

**MARKING CRITERIA**

**DOCUMENTATION DELIVERABLES (40 Marks)**

Outcome Assessed: H1.1, H3.1, H4.1, H5.1, H6.2

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| **REPORTS** | **1 - 2 marks** | **3 - 5 marks** | **6 - 8 marks** | **9 - 10 marks** |
| **Requirements**  **report** | Creates a *poor* report that **does not** address the user needs or is not based on well-founded research.  Report is **poor** at identifying features to be provided in each release | Creates a *basic* report that includes **some** user needs and a generated recommendation.  Report **identifies** basic features to be provided in each release | Creates a*n* ***adequate***report that includes a list of user needs and a generated recommendation.  Report **adequately** identifies the basic features to be provided in each release | Creates a ***comprehensive***report that includes a specific set of user needs and a recommendation to match.  Report **comprehensively** identifies the features to be provided in each release |
| **Incremental Release 1 Testing Report** | Creates a ***poor***report that does not identify clearly the features being tested in this release and very little evidence of testing and feedback | Creates a ***basic***report that has a basic test plan which identifies some of the features being tested and basic evidence of testing and feedback | Creates an ***adequate***report that has a test plan that describes and justifies the features being tested and good evidence of testing and feedback | Creates a ***comprehensive***test plan that clearly describes and justifies the features being tested in this release, and comprehensive evidence of testing and feedback |
| **Final Release Candidate Testing Report** | Creates a *poor* report that does not identify clearly the features being tested in this release and very little evidence of testing and feedback | Creates a *basic* report that has a basic test plan which identifies some of the features, from previous release and new to this release, that being tested and basic evidence of testing and feedback | Creates an *adequate* report that has a test plan that describes and justifies the features, from previous release and new to this release, being tested and good evidence of testing and feedback | Creates a *comprehensive* test plan that clearly describes and justifies the features, from previous release and new to this release, being tested in this release, and comprehensive evidence of testing and feedback |
| **Project**  **Evaluation report** | Creates a *poor* report that displays no level of awareness of the work produced. | Creates a *basic* report that displays a level of awareness of the work produced. | Creates an *adequate* report that displays a level of awareness of the design process and the work produced. | Creates a *comprehensive* report that displays an in-depth level of awareness of the design process and the work produced. |

**SOFTWARE PRODUCT DELIVERABLES (20 Marks)**

Outcome Assessed: H2.2, H3.2, H5.2, H6.1

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| **DELIVERABLES** | **1 - 2 marks** | **3 - 5 marks** | **6 - 8 marks** | **9 - 10 marks** |
| **Incremental Release** | Creates a *poor* release that does not work properly and does not implement the intended features | Creates a *basic* release that works, possibly with errors, but only implements some of the intended features | Creates an *adequate* release that works, possibly with some errors, but implements most of the intended features | Creates a *comprehensive* release that works, possibly with minimal or no errors, and implements all of the intended features. |
| **Final Release Candidate** | Creates a *poor* release that does not work properly and does not implement the intended features | Creates a *basic* release that works, possibly with errors, but only implements some of the intended features | Creates an *adequate* release that works, possibly with some errors, but implements most of the intended features | Creates a *comprehensive* release that works, possibly with minimal or no errors, and implements all of the intended features. |

## Teacher’s Comment Mark: /60

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