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|  | **My School**  Cambridge TEC (Certificate/Diploma) in IT  **Unit 11 - Systems Analysis and Design** | Student Name:­­­­ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Grade Awarded by: \_\_\_\_\_\_\_\_\_\_\_**  **Date Awarded: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** Grade: PASS/MERIT/DISTINCTION |

##### Unit 11 - Assignment Checklist - DD-MM-YYYY

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| **TASKS & LEVEL** | **ACTIVITIES** | | | | | | | | | | | | | | | | | | **STUDENT** | **STAFF** |
| **LO1 - Understand the role of systems analysis and design in relation to the systems development lifecycle** | | | | | | | | | | | | | | | | | | | | |
| **P1.1 –Task 01** | Describe what a Feasibility study is and in a context of a specific project, describe the conditions and expectations of a feasibility study. | | | | | | | | | | | | | | | | | |  |  |
| **P1.2 –Task 02** | Describe the stages of requirements engineering with examples and describe how they relate in context of benefitting a Project Plan. | | | | | | | | | | | | | | | | | |  |  |
| **P1.3 –Task 03** | In terms of visualization, describe how a new system needs to be imagined in terms of Capacity, Performance and Throughput. | | | | | | | | | | | | | | | | | |  |  |
| **P1.4 – Task 04** | Describe the Development to Testing stages of a system life cycle with example. | | | | | | | | | | | | | | | | | |  |  |
| **P1.4 – Task 05** | Describe the Implementation stages of a system life cycle with examples of methods and pitfalls of each method. | | | | | | | | | | | | | | | | | |  |  |
| **M1.1 – Task 06** | Using the context of the scenario, compare and contrast a range of systems development life cycles. | | | | | | | | | | | | | | | | | |  |  |
| **LO2 - Be able to use investigative techniques to establish requirements for business systems** | | | | | | | | | | | | | | | | | | | | |
| **P2.1 – Task 01** | Prepare a report or presentation that present the business requirements for a specified project covering Business systems, Business analysis processes and models, Identifying business requirements and Deliverables from business analysis. | | | | | | | | | | | | | | | | | |  |  |
| **P2.1 – Task 02** | Evaluate the business requirements in terms of completeness, detail, deliverables, stakeholder expectations and success criteria. | | | | | | | | | | | | | | | | | |  |  |
| **P3.1 – Task 03** | Within this report or presentation, provide evidence of at least 3 of the following: oral or written statements, questions from stakeholders, financial reports, press cuttings, incident reports, organisational goals and objectives, interview notes or live interviews of interested parties. | | | | | | | | | | | | | | | | | |  |  |
| **Evidence 01** | | | | **Evidence 02** | | | | | | | | | **Evidence 03** | | | | |
| **P3.1 – Task 04** | Within this report or presentation, provide evidence of at Analysing Current Documents and Identifying Deliverables. | | | | | | | | | | | | | | | | | |  |  |
| Analysing Current Documents | | | | | | | | Identifying Deliverables | | | | | | | | | |
| **LO3 - Be able to develop and document models for business systems** | | | | | | | | | | | | | | | | | | | | |
| **P4.1 – Task 01** | Create and describe a Data Flow Diagram (DFD) for a given scenario within your project production pipeline outlining the stages of problem and solution for the business. | | | | | | | | | | | | | | | | | |  |  |
| **P4.2 – Task 02** | Create and describe a Flow chart for a given scenario within your project production pipeline to document the design model for the identified business system. | | | | | | | | | | | | | | | | | |  |  |
| **P4.3 – Task 03** | Create and describe a Jackson Structure Chart for a given scenario within your completed program design to help describe the functions of a specific task. | | | | | | | | | | | | | | | | | |  |  |
| **P4.4 – Task 04** | Create and describe a Static Data Entity Flow Diagram for a given scenario within your project production pipeline to document the design model for the identified business system. | | | | | | | | | | | | | | | | | |  |  |
| **P4.5 – Task 05** | Create and describe a Hierarchical Tree Diagram for a given scenario within your project production pipeline to document the design model for the identified business system. | | | | | | | | | | | | | | | | | |  |  |
| **P4.6 – Task 06** | Create and describe a Bubble Diagram for a given part of your system setup to document the design model for the identified business system. | | | | | | | | | | | | | | | | | |  |  |
| **P4.7 – Task 07** | Create and describe an Entity Life History for a given part of your system event to document the design model for the identified business system. | | | | | | | | | | | | | | | | | |  |  |
| **M2.1 – Task 08** | Describe each of the 7 models of a UML in terms of your client’s system construction. | | | | | | | | | | | | | | | | | |  |  |
| **Use-case diagram** | **Activity diagram** | **Interaction diagram** | | | **Sequence diagram** | | | | | **Communication diagram** | | | **Timing diagram** | | | | **Interaction overview diagram** |
| **M2.2 – Task 09** | Convert the design model from P4 into a set of UML diagrams which must include at least one Use case diagram, one activity diagram and two interaction diagrams. | | | | | | | | | | | | | | | | | |  |  |
| Use Case Diagram | | Activity Diagram | | | | | | Interaction Diagram 1 | | | | | | | Interaction Diagram 2 | | |
| **D1.1 – Task 10** | Create a Report, Presentation or recorded Video of your UML Design Models with examples. | | | | | | | | | | | | | | | | | |  |  |
| **D1.2 – Task 11** | Present your Design Model to two clients, internal and external with a witness statement as evidence of their delivery. | | | | | | | | | | | | | | | | | |  |  |
| **D1.3 – Task 12** | Evaluate the design model for the identified business system against original business requirements | | | | | | | | | | | | | | | | | |  |  |
| **LO4 - Be able to create logical and physical designs for specified business systems** | | | | | | | | | | | | | | | | | | | | |
| **P5.1 – Task 01** | Create a report that considers the Logical Design Inputs, processes, outputs and data of your system with examples from your scenario. | | | | | | | | | | | | | | | | | |  |  |
| **Platform independent** | | | **Inputs** | | | **Processes** | | | | | **Outputs** | | | | | **Data** | |
| **P5.2 – Task 02** | Create and annotate logical design for the Inputs, Processes, Outputs and Data handling using appropriate diagramming techniques which are suitably annotated to provide a rationale for the stakeholders to consider. | | | | | | | | | | | | | | | | | |  |  |
| **Inputs** | | | **Processes** | | | | | | **Outputs** | | | | | **Data** | | | |
| **P6.1 – Task 03** | Create a report that considers the Physical Design model of your system with examples from your scenario. | | | | | | | | | | | | | | | | | |  |  |
| **P6.2 – Task 04** | Create and annotate physical design models for the Platform Dependence, Hardware, Software and Implementation Environment using appropriate diagramming techniques which are suitably annotated to provide a rationale for the stakeholders to consider. | | | | | | | | | | | | | | | | | |  |  |
| **Platform dependent** | | | **Hardware** | | | | **Software** | | | | | **Implementation environment** | | | | | |
| **D2.1 – Task 05** | Create a stakeholder feedback questionnaire that will effectively allow feedback on your presentation. | | | | | | | | | | | | | | | | | |  |  |
| **M3.1 – Task 06** | Present your designs from P5 and P6 to the stakeholders for consideration. | | | | | | | | | | | | | | | | | |  |  |
| **D2.2 – Task 07** | Analyse the stakeholder feedback against the initial client’s scope and specification. | | | | | | | | | | | | | | | | | |  |  |
| **D2.2 – Task 08** | Analyse their logical and physical designs against the client’s scope and specification. | | | | | | | | | | | | | | | | | |  |  |