VCE Applied Computing – Software Development – SAT in 2023

Criteria and Deliverables

|  |  |  |  |
| --- | --- | --- | --- |
| Criteria | Goals | Deliverables | Due |
| 0 | Identify needs/opportunities | Project Proposal document | Fri 3/2 |
| 1 | Initial project planning | Initial Project Plan:  • Gantt Chart File for Problem Solving Methodology – criteria submission and milestone dates | Fri 10/3 |
| 2 | Development model selection and justification | Development Model Report:   * Selection * Justification | Fri 10/3 |
| 3 | Collect data  Analysis | Data Collection Document:   * What data * Collection method * Actual collected sample data from client(s): interviews, documents, observations, sample data   Based on the collected data:  Context diagram  Data flow diagram  Use case diagram | Fri 24/3 |
| 4 | Complete SRS | SRS Document   * Functional & Non-Functional Requirements (including usability) * Constraints and Scope * Audience/User Details and Technical Environment | Fri 3/5 |
| 5 | Design solution | Software Design document:   * Evaluation Criteria for design ideas and solution * Alternative Design Ideas – functionality, appearance, data structures and storage * Final Detailed Design (signed off by clients) * Justification report | Fri 19/5 |
| 6 | Develop solution | Software – Program and Data files  Internal Documentation  Complex Algorithm Documentation (searching/sorting/or something else implemented by the students themselves)  Note: design and evaluation criteria can be modified by will not be re-assessed. | Fri 16/6 |
| 7 | Design test and data security management plan  Note: this should ideally be done prior to the development stage. Or at least the Data Security Management Plan should be. | Test Specification   * Test techniques * Test data, scenarios, etc. (Testing Table) * Covers functional/non-functional and usability requirements * Covers data validation, data processing and GUI * Perform the tests and document the results   Data Security Management Plan for data and files in the solution   * Procedures and techniques for client * Reflect on what has been put in place during the development * Covering plans for:   + Access & Security   + Backup & Restore | Fri 28/7 |
| 8 | Usability testing + finalise all testing | Test Specification (usability + non-functional tests)  Note: suggested modifications must be documented as part of the test results. | Fri 11/8 |
| 9 | Evaluate software solution | Client/User Evaluation document:   * Strategy for evaluation (focus on effectiveness and efficiency) * Criteria for Evaluation (based on the evaluation from the Design stage) * Implement the evaluation and report on the results   Developer Evaluation document:   * Evaluate the effectiveness of the chosen development model. * Evaluation own performance in Analysis, Design and Development stages, as well as the process to identify and describe future improvements to the solution. (Thinking Journal) * List of future improvements | Fri 25/8 |
| 10 | Assess the project plan | Project Management Evaluation document:   * GanttProject document with all ongoing changes documented. * Separate reflection on the factors that contributed to the effectiveness of the project plan (ideally be noted along the way but can be reflected upon retrospectively). This is done in the final section of the journal. | Fri 25/8 |