# Criterion B: Record of tasks

| Task number | Planned action | Planned outcome | Time estimated | Target completion date | Criterion |
| --- | --- | --- | --- | --- | --- |
| 1 | Get IA scenario and client approved by the teacher | Specific scenario and client approved | 15 minutes | 16/Oct/2021 | A |
| 2 | Initial interviews with client | Record of interviews | 15 minutes | 25/Oct/2021 | A |
| 3 | Write introduction to criterion A of the problem faced by the client | An understanding of the client’s requirements from the new system and why the client is facing the issue that he is facing. | 2 days | 29/Oct/2021 | A |
| 4 | Interview client for more detailed information on system requirements and what they look for from the system | To gain an understanding of exactly what is required from the system | 30 minutes | 2/Nov/2021 | A |
| 5 | Complete a draft for the proposed system section of criterion A and justify what the initial product should have | Request client to check if my understanding of their requirements is correct | 4 days | 7/Nov/2021 | A |
| 6 | Consult client to develop success criteria and what goals they want the system to accomplish | Completion of draft of success criteria | 20 minutes | 9/Nov/2021 | A |
| 7 | Refine success criteria and determine methods of achieving goals listed | Completion of success criteria | 3 days | 13/Nov/2021 | A |
| 8 | Use completed sections to find software to create top down and use case diagrams and make diagrams | Completion of use case and top down diagrams | 2 days | 16/Nov/2021 | B |
| 9 | Create initial version of UML class diagrams | Completion of UML class diagram of attributes | 1 day | 17/Nov/2021 | B |
| 10 | Determine sorting and searching algorithms to use and create pseudocode for these algorithms | Pseudocode of sorting and searching algorithms to be used | 1 day | 18/Nov/2021 | B |
| 11 | Create GUI draft layout | GUI draft layout diagrams | 2 days | 20/Nov/2021 | B |
| 12 | Create test plan and data dictionary | Complete test plan for each attribute of each class of the UML class diagram and create a data dictionary list of the various variable involved | 1.5 days | 22/Nov/2021 | B |
| 13 | Create UML class diagram with methods included | Determine the methods needed to use the system successfully and add the list of methods needed to UML class diagrams | 1 day | 24/Nov/2021 | B |
| 14 | Create entity classes | Create the person, student and teacher classes. Use data hiding to encapsulate the data. | 45 minutes | 24/Nov/2021 | C |
| 15 | Code the nodes for the linked lists and stacks | Create the HomeworkNode, AssessmentNode, HomeworkNodeList, HomeworkNodeStack, AssessmentNodeList,  AssessmentNodeStack classes. Use encapsulation for data hiding. | 1.5 hours | 25/Nov/2021 | C |
| 16 | Code the Linked Lists | Create and add the necessary methods to the HomeworkLinkedList and AssessmentLinkedList classes | 2 days | 27/Nov/2021 | C |
| 17 | Code the Stacks | Create and add the necessary methods to the HomeworkStack and AssessmentStack classes and test basic functionality | 2 days | 30/Nov/2021 | C |
| 18 | Aggregate all classes | Create all the classes defined in the UML class diagrams and aggregate all necessary classes | 9 days (Semester exams in school) | 8/Dec/2021 | C |
| 19 | Create the EMA class | Define the methods require to run an exponential moving average on a given list of assessments | 2 hours | 9/Dec/2021 | C |
| 20 | Create all Sorting and Searching Algorithms | Create the partition, quicksort and binary search methods and test them | 2 hours | 10/Dec/2021 | C |
| 21 | Generate GUI windows for login and create account windows | Create the GUI layouts using netbeans scene builder with actionhandlers being automatically generated | 2 hours | 11/Dec/2021 | C |
| 22 | Code controllers for login and create account windows | Create functional controllers for the login and create account windows that call the necessary data structures to authenticate logins and create new accounts | 2 days | 14/Dec/2021 | C |
| 23 | Create GUI window for Main page | Create the GUI layouts using netbeans scene builder with actionhandlers being automatically generated | 1 hour | 15/Dec/2021 | C |
| 24 | Code controllers for main page | Create controllers for the actions performed on the GUI page and define methods to load information to JList when the JFrame is instantiated | 1 day | 16/Dec/2021 | C |
| 25 | Create GUI window for class manager pane | Create the GUI layouts using netbeans scene builder with actionhandlers being automatically generated. Add tabbed panes to navigate between the various sections | 2 days | 19/Dec/2021 | C |
| 26 | Create all smaller GUI panes to add and remove various elements and to mark various components | Create the GUI layouts using netbeans scene builder with actionhandlers being automatically generated. | 2 days | 21/Dec/2021 | C |
| 27 | Code the weighting average based effort grade calculator | Use weightings specified by client in meeting on task number 5 after meeting with client to check whether my understanding of their problem was correct. | 3 days | 24/Dec/2021 | C |
| 28 | Code controllers for all remaining GUI panes | Code controller actions between remaining add and mark GUI panes | 2 days | 26/Dec/2021 | C |
| 29 | Code serialization and deserialization methods | Code the save and load functions for the TeacherManager class where a list of all teachers are located | 30 minutes | 27/Dec/2021 | C |
| 30 | Code validation for all data entry fields | Verify data entry using the test plan outlined in criteria B | 2 hours | 28/Dec/2021 | C |
| 31 | Create technical documentation with all techniques used and documentation for any other developers who may wish to edit the system | Understand the technicalities of my system and provide the information on how my system functions in such a manner that another person may be able to understand | 1 week | 23/Jan/2022 | C |
| 32 | Create product video | Showcase the functionality of the system and its error management and validation | 2 days | 7/Feb/2022 | D |
| 33 | Interview client to gain feedback against the success criteria | Gain feedback on how my system fares in practical use | 1 day | 12/Feb/2022 | E |
| 34 | Write evaluation | Provide information on how the system may be improved and how it may be modified and write user recommendations for improvement | 1 days | 13/Feb/2022 | E |
| 35 | Submit | | | 16/Feb/2022 |  |
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