# **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 | 29/Aug/2022 | A |
| 2 | Initial interviews with client | Record of interviews | 15 minutes | 10/Sept/2022 | A |
| 3 | Come up with a detailed proposal for a solution and introduce the idea of the system to the client | An understanding of the clients requirements and how my system needs to be modified to fit the clients needs | 5 days | 15/Sept/2022 | A |
| 4 | Interview client and discuss the system specifications and success criteria | To finalise any decisions that need to be made on the system | 30 minutes | 16/Sept/2022 | A |
| 5 | Finalise all details of the system and present to client | In order to get full approval that my system is what my client needs | 15 minutes | 17/Sept/2022 | A |
| 6 | Create Decomposition Diagram | Visualise the linking and flow of the general system | 2 days | 20/Sept/2022 | B |
| 7 | Create UML Class Diagram | Gain a better understanding of the specifics of my system in terms of code | 1 day | 22/Sept/2022 | B |
| 8 | Create Use Case Diagram | Understand how the user will view and interact with the system | 1 day | 24/Sept/2022 | B |
| 9 | Finalise all diagrams and make any necessary edits | Make sure all diagrams coexist with each other and all make sense to my intentions | 2 days | 28/Sept/2022 | B |
| 10 | Create Test Plan and Data Dictionary | Gain an understanding of what I need to code in terms of verification and validation as well as flesh out my ideas for my variables. | 2 days | 1/Oct/2022 | B |
| 11 | Create pseudocode for important algorithms | Compete Sorting  and Searching  algorithm in  pseudocode | 1 day | 3/Oct/2022 | B |
| 12 | Create entity classes | Create the GymTracker, Session,  Exercise, Date classes and encapsulate  their variables. | 1 day | 8/Oct/2022 | C |
| 13 | Code relationship between variables | The next step after creating the variables would be relationships such as aggregation and dependency would be made. (Has a, is a relationships) | 1 day | 10/Oct/2022 | C |
| 14 | Create main menu in GymTracker class and all methods used in main menu | Using a switch case create the main menu for the GymTracker class and all methods called by the switch case (making the methods empty for now just so that the code can compile) | 1 day | 11/Oct/2022 | C |
| 15 | Research on and create the Date class | Using the calendar create a Date class which will be able to go through validation for the day, month and year separately | 3 days | 15/OCT/2022 | C |
| 16 | Code the constructors, getters and setters for the exercise object | Creating a layout for each exercise with each exercise containing a exerciseName, muscleGroup, weight, sets, reps. | 1 days | 16/OCT/2022 | C |
| 17 | Create the addExercise method | Create a simple addExercise method which adds an exercise to an ArrayList of exercises | 2 days | 21/OCT/2022 | C |
| 18 | Use the pseudocode to code the searching and sorting algorithms | Develop the pseudocode already written into functioning code to be used for the Exercise class | 2 days | 25/OCT/2022 | C |
| 19 | Construct a method to view the exercises with each element of the exercise present using a toString | Using a toString method create a viewExercise method to display each exercise in a new line each with their respective data (exerciseName, muscleGroup, weight, sets, reps) | 1 day | 27/OCT/2022 | C |
| 20 | Code the constructors, getters and setters for the session object | Creating a layout for each session with each session containing a date as well as an ArrayList of exercises (an already existing ArrayList) | 2 days | 30/OCT/2022 | C |
| 21 | Code the addSession method | Create a method to add Sessions each with a date and multiple exercises, with each exercise still containing the data such as exerciseName, muscleGroup etc. | 3 days | 6/NOV/2022 | C |
| 22 | Create the loadSession and saveSession methods using serialization and deserialization | Research on how serialization works and save the sessions to a serialized file with the sessions and their data saved which can be loaded back to the system. To be done after a long break due to semester examinations, hence may take extra time in order to refamiliarise myself with the system | 3 days | 10/DEC/2022 | C |
| 23 | Construct a method to view the sessions with each element of the exercise present using a toString | Using a toString method, create a viewSession method to display each session in a new line each with a date, and all the data of each exercise that belongs to each session. | 1 day | 12/DEC/2022 | C |
| 24 | Code all Validation  for data entry for all classes | Test System using  Normal, Extreme and Abstract data to  ensure validation  works for all classes | 2 days | 18/DEC/2022 | C |
| 25 | Review old methods from each class in order to ensure all entry prompts and data types are as wanted | Look over all previous methods and double check each method in order to counteract any potential flaws in the system | 1 day | 20/DEC/2022 | C |
| 26 | Create technical  documentation  including all  techniques the  code contains citing where necessary, and documentation to increase potential  understanding for other backend programmers to edit  the code. | Acknowledge the resources which the code was inspired by, understand the code and present it in an eligible manner. | 10 days | 5/JAN/2023 | C |
| 27 | Create Product  Video | Showcase the  product’s functionality, error management, file saving, and data validation | 1 day | 6/JAN/2023 | D |
| 28 | Interview Client to  gain feedback  against the success  criteria | Gain feedback from the client on the system and how satisfied the client is with the system based on the success criteria and its intended function. In order to do so, allow my client to use the system freely. | 1 day | 8/JAN/2023 | E |
| 29 | Using information  from the interview,  write improvements and modifications to  the system | Use the client’s feedback in order to create potential modifications for the system in order to help future developers know how to extend the system. | 4 days | 13/JAN/2023 | E |
| 30 | Create potential recommendations and improvements | Generate ideas for potential improvements towards the system. | 2 days | 15/JAN/2023 | E |
| 31 | Submit | | | 16/JAN/2023 | |