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

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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	Develop the pseudocode already	2 days	25/OCT/2022	C

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	searching and sorting algorithms	written into functioning code to be used for the Exercise class			
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

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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	1 day	8/JAN/2023	E

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		my client to use the system freely.			
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	