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	20/Oct/2022	A
2	Initial interviews with client	Approval of IA Idea and recording planning ideas for system	15 minutes	26/Oct/2022	A
3	Forming formal interview questions and planning interview time	Having questions for a proper interview	20 minutes	29/Oct/2022	A
4	Conducting interview	Gaining a greater understanding of client's problem and current system	20 minutes	2/Nov/2022	A
5	Writing a description of my proposed system, including justification of the product, and the success criteria	Showing it to the client to see whether they approve	2 hours	4/Nov/2022	A
6	Designing the decomposition diagram for the system	Determining the flow of the system and how user will interact with it	1 hour	5/Nov/2022	B
7	Creating the pre-development UML Diagram	Understanding the different classes needed for the system	1.5 hours	6/Nov/2022	B
8	Creating a testing plan and determining some of the algorithms needed for development	Planning the validation and type of algorithms needed for the system to work efficienctly	2.5 hours	7/Nov/2022	B
9	Initializing some of my classes with attributes and constructors	Setup system and class structure for basic construction of my system.	2 hours	12/Nov/2022	C
10	Creating methods such as toString(), getters and setters	Setting up system and class structure	1 hour	15/Nov/2022	C
11	Creating serialization load() methods for classes	Ability to load data into system	1.5 hours	17/Nov/2022	C

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12	Creating deserialization save() methods for classes	Ability to save data into system	0.5 hour	18/Nov/2022	C
13	Editing Date and Time classes for specific system purpose	Ability to access session Dates and Times to have sessions with specific dates and times.	1 hour	23/Nov/2022	C
14	Creating abstract Person Class	Ability for Tutee and Tutor classes to inherit from Person class. The inherited attributes are the name and ID attributes.	1.5 hours	27/Nov/2022	C
15	Creating add method for Tutee Controller class	Ability to add tutees to the system. This will also allow the tutee to pair with tutors if they exist.	1.5 hours	30/Nov/2022	C
16	Creating edit and delete methods for Tutee Controller Class	Ability to edit and delete tutees from the system. This is to make changes to any mistakes or updates to the tutee's attributes.	3 hours	3/Dec/2022	C
17	Creating add, edit and delete methods for Tutor controller class	Ability to add tutors to the system. This will also allow the tutor to pair with tutees if they exist. It will also allow users to make any changes or updates to tutor information.	4.5 hours	7/Dec/2022	C
18	Creating sorting methods for Tutee and tutor classes and controller classes	Ability to sort tutee and tutors lists in the system. This is necessary for some of the binary search algorithms in the next task.	2 hours	8/Dec/2022	C
19	Creating searching methods for tutee	Ability to search for tutees and tutors in the system. This is	1.5 hours	11/Dec/2022	C

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	and tutor classes and controllers	essential to see if tutors and tutees exist in the system in case of looking for duplicates, updating their attributes or pairing them.			
20	Creating add method for Subject Controller class	Ability to add Subjects to the system. This is important to see if subjects already exist in the system or not when adding subjects in tutor/tutee classes.	1 hour	12/Dec/2022	C
21	Creating edit and delete methods for Subject Controller Class	Ability to edit and delete subject from the system.	1.5 hours	14/Dec/2022	C
22	Creating add and edit methods for Session controller class	Ability to add and edit sessions from the system. This is important as sessions must be added to the system for the client's scheduling and they may have to be edited due to changes in the tutoring schedule.	2 hours	17/Dec/2022	C
23	Creating delete for Session Controller class. Creating sorting method for Subject and Session controller class	Ability to delete Sessions in the system. This is essential as sessions in the past must be removed. Ability to sort Subjects and Sessions in the system. This is important for creating a search algorithm for	3.5 hours	19/Dec/2022	C

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		sessions and subjects.			
24	Creating a searching method for Subject and Session classes and controllers	Ability to search for subjects and sessions in classes. This is important to see if subjects/ sessions exists to prevent scheduling errors and duplicates in the system.	1.5 hours	10/Jan/2023	C
25	Creating Ranking class and initializing with attributes	Setup ranking class structure in the system. This involved choosing the data structure to store and add ratings from (LinkedHashMaps).	1 hour	13/Jan/2023	C
26	Writing Ranking class methods to computer rankings	Ability to compute tutor rankings in the system. At this stage, I was going to add a Machine Learning Algorithm with Gradient Descent but decided against it. I instead used a weighted moving average and created an algorithm for this.	4 hours	14/Jan/2023	C
27	Writing Ranking class methods to compute rankings	Ability to compute tutor rankings in the system. At this stage, I designed the algorithm to compile the different types of ratings into one rating for each tutor and parallel sorted the tutors and their overall ratings.	2.5 hours	17/Jan/2023	C
28	Writing Ranking class methods to compute rankings	Ability to compute tutor rankings in the system. Here, I had	2 hours	17/Jan/2023	C

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		to reverse the ranking using stacks as I realized that the ranking was printing in reverse.			
29	Writing Ranking controller classes to create tutor-ranking	At this stage, I had inputted some raw data into the system in order for it to generate tutor rankings. I then created an addRating method to add ratings for new and existing tutors in the rankings.	3 hours	25/Jan/2023	C
30	Debugging classes	Preventing errors in the system. This involved thorough unit and integration testing of the system's operations to prevent bugs.	7 hours	26/Jan/2023	C
31	Product Evaluation with client	Evaluate product's success. In this final interview, I will ask the client how the system ran and what improvements I could make to it.	0.5 hours	27/Jan/2023	E
32	Write technical documentation to ensure another programmer can edit and debug code	Allow for ease of editing of code for another developer.	4 hours	27/Jan/2023	C
33	Take product video in one take	Showcase product's functionality, error management and validations.	1 hour	28/Jan/2023	D
34	Write improvements and evaluation of product	Analyze client feedback to help other programmers to extend system. Self-evaluate entire system for extensions and improvements.	4 hours	29/Jan/2023	E

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35	Submit			30/Jan/2023	