

Criterion B: Record Of Tasks

Task Number	Planned Action	Planned Outcome	Time Estimated	Target Completion Date	Criterion
1	Identify a problem and a client	In order to get a client and develop a product, I thought about one of my friends, who manages a parking company. He is in charge of both finding new spots around the city, for the business, to expand, and then renting out those spots to clients who needed a parking space. Consequently, I think it will be a good idea to work with him, as the business is getting bigger, making handling, and organizing too many parking spots difficult and opening a potential area for implementing technology.	1 day	May 15, 2020	A
2	Talk with my client to further understand his problem (See appendix 1)	I will interview my client, to specifically understand his problem, and his needs and offered him my computer science skills in order to come up with a solution	1 day	May 20, 2020	A
3	Come up with multiple ideas for solving my clients' problems.	Brainstorm and write multiple ideas, which could eventually help my client solve his problem.	1 day	June 3, 2020	A
4	Use my advisor to evaluate each idea	Share my solutions with my advisor, in order to discuss which were the most feasible, efficient, and accurate for my client's problem.	5 days	June 12, 2020	A
5	Present the chosen solution to my client	Show and offer my solution to my client and briefly explain how it will work.	1 day	June 20, 2020	A
6	Get my teacher/advisor to approved my idea	I will show my idea to my teacher, explain to him how it will work, how it will solve my client's problem, and show him a structured plan of how I was going to developed this program	6 days	June 27, 2020	A
7	Second meeting with my client (See appendix 3)	Ask him which are the specific functionalities and requirements which he will like for his program to have.	2 days	July 2, 2020	A
8	Start improving my Java skills	Based on my client's need and requirements for the product, I will start learning more advanced java functionalities, to satisfy such needs. This might include; serialization if data needs to be stored and constantly updated, OOP functionalities if maybe the code needs to be structured using classes and methods, and any other potential new feature which I might have to learn in order to develop a successful program. As a result, I will be able to develop a fully functional product with all the specifications given by my client. I will do this by using online free courses and tutorials.	20 days	July 3, 2020	C
9	Third meeting with the client (See appendix 4)	Finalize the program details and come up with success criteria that specifically state all of the requirements and functionalities which have been suggested by my client during the first couple of meetings.	1 day	July 10, 2020	A

Adaptation to #9: As the project and the program evolved, my client began to have new ideas and wished to add new specifications to the program. As a result, some of the initial details and requirements of the success criteria had to be changed, tailored, or even added. I did this, in order to continuously satisfy my client’s needs and provide him with quality and fully functional products.

10	Initial Brianstorm and Understanding of the product - Developed criteria A	When developing criteria A, I will be able to clearly understand my clients’ problems and hence come up with realistic ideas of how the program and final product could look like.	4 days	July 19, 2020	A
11	Start defining the structure of the program	Begging developing flow charts and UML diagrams to understand and develop the different classes, methods, and any other features that the client had previously specified which he will like the program to have. These visual representations will also allow me to get constant feedback from my client, hence improving my final product and design.	3 days	July 23, 2020	B
12	Planning of the product - Developed my Criteria B	I will develop all the necessary flow charts, UML diagrams, and Pseudocode needed, in order to fully show and understand the structure of the code and program. This will allow me to plan ahead and clearly visualize the end product, enabling me to also transmit much detailed information to my client and hence allow him to understand the evolution and ideas of the program.	10 days	July 30, 2020	B
13	Fourth meeting with the client (See appendix 5)	Show my client all the charts and the final plan and receive any feedback in order to do adjustments.	1 day	August 1, 2020	B
14	Improve features and add adjustments	Add any feedback or adjustments made by the client in the last meeting.	2 days	August 4, 2020	B
15	Code all the program	Developed a fully functional product, with all of the features and requirements stated by the client in the meetings	30 days	August 5, 2020	C

Adaptation to #15: As I coded and developed the program, I found myself stuck with some of the initial ideas I had planned. For example, I had planned to use “Integers” and “Doubles” ArrayLists in order to store the addresses input by my client. As I tested and run my initial versions of my code, I noticed that some addresses might contain letters (eg: Road 45A-22C), as a result, I had to change all of my ArrayList to “Strings”, enabling my client to input any type of address he needs, and avoiding errors.

16	Fifth meeting with the client (See appendix 6)	Show him the first draft of the program and collect feedback	1 day	August 10, 2020	B
17	Create update #1	Based on the feedback and suggestion of the client, improve the product.	10 days	August 12, 2020	B
18	Finish my UML diagrams	Finished my UML diagrams and get feedback from my computer science teacher. This UML diagram will then help me to illustrate the structure of the final product in a simple and concise way, enabling me to show and explain it to my client.	5 days	August 20, 2020	B
19	Sixth meeting with the client (See appendix 7)	Show my client the updated version and ask for any feedback or additional information	1 day	September 1, 2020	B
20	Create update #2	Use feedback and information from my client, to update the program and add more functionalities	10 days	September 5, 2020	B

21	Seventh meeting with the client (See appendix 8)	Show him the second updated version and ask for any final details and changes	1 day	September 20, 2020	B
22	Finalized my complete code	Finished the entire end product, with all the information, feedback, and requirements from the client	15 days	September 25, 2020	C
23	Show my code to my supervisor and check the complexity level	I will check with my supervisor the complexity level of my code and see if I meet all the IB requirements	3 days	October 10, 2020	C
24	Carry out a Beta test of the code	Send the program to my client, and have him try it out in a real-life situation. (Appendix 8)	2 days	October 13, 2020	C
<p>Adaptation to #24: Beta test was performed twice, as we had some technical-related issues the first time the program was tested. For the Beta tests, I had my client use my computer the first time, in order to check functionality and for him to try the program in a real-life situation. Moreover, I then proceeded to send the actual program to my client, and have him run it within his own computer, in order to check for compatibility and allow my client to use the program on his own device.</p>					
25	After the Beta test corrections	Improve, amend, add, and fix any suggestions or feedback received from my client after the beta test is performed.	3 days	October 17, 2020	C
26	Create Explanatory Video - Develop criteria D	Do a videotape recording of the final code and check the success criteria as I record. This video will not only allow me to check if I meet all the success criteria requirements, but it will also be a great help to show my finalized product to my client, explaining to him how it works and all the functionalities it has.	1 day	October 15, 2020	D
27	Reflection and further improvements of my program - Develop Criteria E	I will develop my full criteria E, where I reflect upon my entire IA process and establish further improvements for my program, which will allow me to think about how my product could ultimately become better, more complex, and with greater functionality.	5 days	October 17, 2020	E
28	Final meeting with the client (See appendix 9)	Thank him for allowing me to solve his problem and using his company to create a program.	1 day	October 20, 2020	B
29	Check my final product and hand in final version with all required documentation	I will finally check upon my entire product and all of its documentation, in order to submit my final project with all of its according parts, features, documents and any other supporting file which I used during the process and which might be needed by my client in order to run the program as successful and smooth as possible.	5 days	October 25, 2020	All