

Criterion B - Record of Tasks

Task No.	Planned Action	Planned Outcome	Time Estimated	Target Completion Date	Criterion
1	Think of IA Scenario & client along with Proposed Product or Solution	Concise and planned scenario with solution and client	25 mins	14/Oct/2020	A
2	First interviews with client	Email & spoken information	30 mins (+ 40 mins of previous talks)	16/Oct/2020	A
3	Reflection of interviews & acquired knowledge + formulate success criteria	List of success criteria	1 day	19/Oct/2020	A
4	Find idea for proposed product & interview	Idea to solve client's problem	2 days	27/Oct/2020	A
5	Create written description of scenario and proposed solution, along with justification and screenshots	Written paragraph(s) with screenshot images	1 day	2/Nov/2020	A
6	Modify and enhance success criterion so they become 'SMART'	Produce at least 10 success criteria to follow	1 day	3/Nov/2020	A
7	Create a rough plan for users and accessibility	Mindmap + use-case diagram draft	2.5 hours	6/Nov/2020	B

8	Finalise (with client & teacher) and get use-case diagram approved	Use-case Diagram	1 hour	7/Nov/2020	B
9	Using mindmap, draft decomposition and UML diagrams	Diagram showing classes and their relationships	2 days	8/Nov/2020	B
10	Create flowchart with functions	Flowchart	1 day	10/Nov/2020	B
11	Draft and finalise pseudocode & algorithms	Pseudocode with algorithms showing its functions	1 day	11/Nov/2020	B
12	Create IPO diagram to illustrate processing of data (inputted)	Have most diagrams mentioned above finished	2 days	13/Nov/2020	B
13	Create Test Plan, Data Dictionary and GUI Draft	Complete plan for various variables & parameters. Form a data dictionary along with what the GUI may look like	1 day	15/Nov/2020	B
14	Development begins -- create entity classes	Using pre-solution UML Diagram, development starts and is modified if necessary Create person, teacher, student, etc classes and encapsulate the variables.	30 minutes	20/Nov/2020	C

		This creates a basic framework to work with.			
15	Code relationship between variables	Along with entity classes, this task allows for key relationships like composition and aggregation to be formed.	45 minutes	22/Nov/2020	C
16	Code relationship between classes/methods -- including methods in other classes	Have a rough idea, and implement methods that will be used in other classes -- AAMethods & StudentMethods use many classes	30 minutes	23/Nov/2020	C
17	Code the controller classes (Main, StudentMethods and AAMethods)	These classes will not fully function since they are incomplete. This step also includes coding the menu-drive interface	3 Days	23/Nov/2020	C
18	Make a log-in system	Create a secure log-in page -- this means the menu-driven interface needs to function. Secure suggests saving and storing it in external/permanent storage (.txt). This also means encryption to protect passwords. This	3 Days	27/Nov/2020	C

		step includes Serialization and using SHA to encode.			
19	Complete controller classes fully and implement all methods, etc.	Link all the classes together such that it shows no error and functions as it should. At this stage, coding of product working should be almost done. Examples would be addUniversity, addStudent, etc	5 Days	9/Dec/2020	C
20	Finish setting up a CLI to favoured options, and have different menus for AAs and Students with different functions.	Finish the menu-driven interface which correctly navigates users to the intended direction.	2 Days	17/Dec/2020	C
21	Add and implement specific functions when prompted in the menu-driven interface, like addStudents() when prompted "Add Student" in menu	Finish most of the functionality of the interface. Allow users to implement and carry forward functions	3 Days	20/Dec/2020	C
22	Start GUIs of FAQ and university rankings	Research and gather valuable information on use and functionality of Java Swing. Start experimenting and using	8 Days	1/1/2021	C

		attributes like JPanel, JButton, etc. Set a JFrame of reasonable size (smaller for FAQ, and wider for uniRank)			
23	Finish GUIs and make sure they function properly with each input -- ensure that TextArea are not to be edited.	Make JPanels and add specific Swing attributes like JTable, etc, by looking at the GUI Draft. Finish both GUIs and ensure they run smoothly and properly. Test them with every kind of input. If GUI functions like not intended then fix code, by going through each element.			C
24	Reflect on the product, and think of possible changes and improvements	If realistically implementable, try and implement them and other extra features to make product more appealing	2 Days	8/1/2021	C
25	Personally test the code and product in both NetBeans and Eclipse to ensure it works on all Java platforms. Clean up unused elements	A functioning and tested system ensures the completion of success criteria.	2 Days	10/1/2021	C

	and make code more organised. Create technical documentation by adding comments within the code and its function				
26	Submit draft of code to ask for feedback from client and teacher. If received feedback, try implement it	This will not only give possible modifications, but also allow to test on client's computer as well	30 minutes	10/1/2021	C
27	Finish write up on Criteria C documentation that explains several techniques used in the code	Completed report that mentions success criteria met with justification, explanation and code example.	3 Days	14/1/2021	C
28	Create video, along with bullet points for a script.	Script of bullet points will help narrate what product does. Video should showcase functions, validation, management, verification, handling and organisation.	1 hour	16/1/2021	D
29	Rewatch the video and ensure it is correct and nothing is missed out. If missed, then add it in.	Rewatch for errors, and possible additions.	15 minutes	16/1/2021	D
30	Receive feedback from clients through interview.	Gain insight about how client finds system in	2 Days	19/1/2021	E

	Compare it against the success criteria	terms of effectiveness, functionality, organisation and against success criteria. Allow clients to explore product/system freely.			
31	Using interview information, note improvements and modifications	Analyse client's feedback and formulate modifications and recommendations for further improvement to system. This would help other developers to extend and enhance the code.	2 Days	22/1/2021	E
32	Using noted improvements, try and 'convert' feedback into possible code, and how it could be implemented,	Analyse feedback and try to convert that into possible code. Use internet help if needed.	1 Day	24/1/2021	E
33	Evaluation documentation written, along with client assessment, success criteria and (client and self) recommendations for further improvement	Evaluation document should discuss ways the client views the final product, compare success criteria, and further suggestions for improvement. This would also help understand pros and cons of system.	2 Days	27/1/2021	E

34	Fully check all documents, code and files before submission	<p>Check all documentation</p> <p>-- Criteria A, B, C (product also), D (video also), E.</p> <p>Make sure everything is in place and correct.</p> <p>And Submit.</p>	2 Days	30/1/2021	All
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