

**Computer Science Internal Assessment**  
**Criterion B: Record of tasks**

Task Number	Planned Action	Planned Outcome	Time Estimated	Completion Date	Criterion
1	Brainstorm idea about movie recommendation system after spontaneous interaction with neighbour (who then became client)	Research on internet and learn about the different approaches/methods I could use	1 hour	February 28, 2021	A
2	Official meeting with client to discuss the problem in detail, and pre-requisites	Understand my aim of the task; gauged the overall final outcome; filled the client form	1 hour	April 1, 2021	A
3	Meeting with computer science teacher	Approved my idea and general plan and idea for IA	1 hour	April 5, 2021	A
4	Research the two different methods - collaborative filtering, content based filtering etc. in depth	Finalise on the nearest neighbour algorithm	3 hours	April 15, 2021	A
5	Further research into the detailed methodology of how to effectuate the nearest neighbour algorithm	Learn about the data needed, and note the step-by-step process	3 hours	April 20, 2021	A
6	Write the introduction of the planning document	N/A	1 hours	April 22, 2021	A

7	Meet with client (2nd official meeting)	Acquire knowledge of the problems that my model must target ; design and UI preferences discussed	1.5 hour	April 25, 2021	A
8	Find the data required	Kaggle data set: with required elements and enough observations	1 hours	April 25, 2021	A
9	Write the success criteria	N/A	2 hours	April 28, 2021	A
10	Begin learning Python language to be able to develop interface	Learn to embed code of python into UI (use buttons/clicks, develop different accounts for different users, basic formatting and aesthetics) ; learn how to use jupyter notebooks	20 hours	April 29, 2021	B
11	Define the entire process, and sent it to computer science teacher to verify	Verify the process	1 hour	April 30, 2021	A
12	Develop interface design using draw.io	Noted the interface aspects I will have to include in my code like different user logins, passwords, boxes/clicks)	3 hours	June 15, 2021	B
13	Make Flowchart of user experience	Make flowchart showing user experience on website, how user will navigate, what options will be displayed etc.	3 hours	June 21, 2021	B

14	Make Flowchart of internal program	Make flowchart showing the internal process, code and method: what does the program do with the inputs to derive the suggested movies	3 hours	June 22, 2021	B
15	Download Anaconda software for Python	N/A	1 hour	July 17, 2021	C
16	Combine the kaggle data set	Gives main matrix required to calculate nearest neighbour	2 hours	August 8, 2021	C
17	Implemented the sparse matrix algorithm	Reducing sparsity of matrix such that improving accuracy and speed of program	1 hour	August 19, 2021	C
18	Find nearest neighbour algorithm from Sklearn database, and implement it on kaggle data set	Method will output a list of recommended movies	3 hours	September 29, 2021	C
19	Weave sorting algorithm in the main method	Top-rated movies (that the client can choose to filter by genre) will be the output	1 hour	October 5, 2021	C
20	Plan the User interface	List of aspects required to make in the UI using javascript	3 hours	October 14, 2021	B
21	UI-create menu of application	Display the menu aspects on the top left of the application: in the menu	4 hours	December 28, 2021	C

22	UI-create login page	Display required input details like username, name, password	2 hours	January 5, 2022	C
23	UI-create the sign up page	Display required input details like username, name, password ; input important transition buttons to move from login to signup	2 hours	January 7, 2022	C
24	UI- connect to database	Connect the potential user to database: XAMPP: myphpadmin	3 hours	January 14, 2022	C
25	UI-Create home page	Display an input box for the movie and number of movies ; connect the nearest neighbour algorithm method to the entries	2 hours	February 13, 2022	C
26	Criterion D - video	Made script, video after viewing all elements and features	1 hour	March 1, 2022	D
27	Client feedback meeting(3rd)	Present first draft and receive feedback on UI, usability, other factors/aspects to include, problems, etc. for further modification	2 hours	February 27, 2022	E