

Criterion B: Record of tasks

Total Hours: 50.08

Task number	Planned action	Planned outcome	Time estimated (minutes)	Target completion date	Criterion
1	Define the problem	Beginning of planning document and ideas for the interview	120	27 Aug 15	A
2	Interview the Client	Receive feedback for the project to be sure to fulfill the client's needs	30	28 Aug 15	A
3	Design the GUI	Storyboard a simple and intuitive visual front for the program with input from the client	45	14 Oct 15	B
4	Design user interactions	Document, with a Use-Case flowchart, the steps taken by the user interacting with the GUI and what happens as a result	120	16 Oct 15	B
5	Refine GUI and user interactions	Completed and digitalized the storyboard prototype and use-case flowchart	150	23 Oct 15	B
6	Start class design	Very early class diagram with responsibilities and relationships	30	23 Oct 15	B/D
7	Finish class design	Complete class diagram with relationships and responsibility	30	26 Oct 15	B/D
8	Design algorithm for getNormal of Triangle Class	Complete design with pseudo code and example inputs and outputs	30	27 Oct 15	B
9	Design algorithm	Complete design with pseudo	100	29 Oct 15	B

	for recompute of Model Class	code and diagrams			
10	Update Record of tasks	Updated record of tasks	20	30 Oct 15	B
11	Begin Development	Implemented buttons and image previews	60	19 Nov 15	C
12	Continue Development	Partially implemented all necessary classes	60	23 Nov 15	C
13	Continue Development	Write stubs for calculating model from images	60	24 Nov 15	C
14	Continue Development	Implement algorithm completely and test creating models	180	30 Nov 15	C
15	Unplanned fine-tuning	Resolving bugs with edges and holes	60	1 Dec 15	C
16	Update Record of tasks	Updated record of tasks	20	2 Dec 15	B
17	Add comments to code	Preconditions, Postconditions, parameters, and returns as well as algorithms commented for each method	45	9 Dec 15	C/D
18	Refine code	More robust code that handles extreme cases	45	10 Dec 15	C/D
19	Documentation	Updated Development document	30	10 Dec 15	C
20	Update Record of tasks	Updated record of tasks	20	11 Dec 15	B
21	Add Sliders and Change loading pictures	Added placeholders for the scale adjustment sliders and added reloading of pictures for faster prototypeing	30	7 Jan 16	C
22	Added 3D view	Added a rotate-able 3D preview of the model that is packaged in its own class for reuse in later projects	250	15 Jan 16	C/D
23	Update Record	Updated record of tasks	20	15 Jan 16	B

	of tasks				
24	Add Comments	Preconditions, Postconditions, parameters, and returns as well as algorithms commented for each method	45	19 Jan 16	C/D
25	Clean up code	Replaced arrayList with Hashmap to reduce runtime from $O(N^2)$ to $O(N)$ in Model.normalize() and removed redundant code	90	21 Jan 16	C//D
26	Implement Sliders & Scaling	Implemented scaling such that the 3D model shows changes in real time and write out with changes	90	26 Jan 16	C
27	Redo Layout of GUI	Changed layout of GUI such that productivity is increased and one has a better overview	30	27 Jan 16	C
28	Implement Smoothing	Implemented smoothing such that one can have more consistent surfaces and not limited by the 255 values of color.	90	29 Jan 16	C
29	Update Record of tasks	Updated record of tasks	20	1 Feb 16	B
30	Apply final touches	Inspect code for any last glaring errors and fix any remaining bugs	60	3 Feb 16	D
31	Testing	Test program according to the testing plan from the design document	60	4 Feb 16	B
32	Start Evaluation	Evaluate program using the criteria for success from planning document	60	5 Feb 16	E
33	Update Record of tasks	Updated record of tasks	20	8 Feb 16	B
34	Create final updated UML diagram	Put final touches on the diagrams to update design document	30	8 Feb 16	B

35	Work on Documentation	Write up log of implementation and discuss User Interface and Algorithmic thinking	180	12 Feb 16	C
36	Continue Work	Fully Write up all implementation details	180	17 Feb 16	C
37	Write up Evaluation	Write up evaluation of final product and compare to criteria for success	60	19 Feb 16	E
38	Write Script for Video	Write comprehensive script for video	75	24 Feb 16	D E
39	Record Video	Record two videos, one showing off the product the other the code	120	11 Mar 16	D
40	Edit Video	Piece videos together	120	17 Mar 16	D
41	Produce Video	Review and render Videos, add real 3D printed part	60	29 Mar 16	D
42	Final Interview with Client; Finish Evaluation	Interviewed my client and got the final feedback. Finished up the evaluation to reflect the responses	60	30 Mar 16	E
43	Ready Project for Submission	Organize all files and edit HTML	30	30 Mar 16	
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