

## Record of Task

Task no.	Planned Action	Planned Outcome	Time Estimated	Target Completion Date	Criteria
1	Introduction to the internal assessment	Understood the general requirements of the IA	1 day	29/01/2021	A
2	Think of or choose 3 project ideas on your own or using the list of potential clients the advisor provided	Thought of 2 ideas and picked 1 idea from the potential client list.	1 day	05/02/2021	A
3	Elaborate on one project idea that you think is best	Elaborated on one idea that I think is best by including descriptions of its functions, general layout etc.	2 days	24/02/2021	A
4	Received feedback by advisor on the elaborated idea	The elaborated idea is too complex and there are no clients. Advisor urges to change the project idea	1 day	26/02/2021	A
5	Chosen a problem from a list of potential clients the advisor gave out	Advisor approved problem chosen and client is notified	2 days	24/02/2021	A
6	Created a questionnaire and sent it to the client	Client responded on the same day it was sent out	2 days	01/03/2021	A
7	Form questions prior to the interview with the client	Able to come up with 5 questions	1 day	10/03/2021	A
8	Record the interview and type up the transcript	Transcript typed up	1 day	11/03/2021	A
9	Start Criteria A	Criterion A completed	1 week	14/03/2021	A
10	Received feedback from advisor on Criteria A	Edit Criteria A based on feedback given	2 days	17/03/2021	A
11	Introduction to Criterion B	Know how to construct Criterion B	1 hour 30 minutes	18/03/2021	B
12	Learn how to make a UML diagram	Able to identify classes within the program and the general outline of the program	2 days	20/03/2021	B
13	Create a record of tasks	Tasks completed throughout the CS IA so far are recorded	1 hour	21/03/2021	B
14	Research more into Google Firebase and layout the program's database structure	Fields of the program are identified, database structure is planned out, and a better understanding of how Google Firebase works	2 days	24/03/2021	B
15	Construct test table to ensure success criterias are achieved	Test plan constructed	2 days	26/03/2021	B
16	Create a prototype for the GUI of the program	Prototype of GUI is completed for all screens	5 days	31/03/2021	B
17	Draw flowcharts for each class of the program	All flowcharts completed	1 week	07/04/2021	B
18	Edit Criterion B	Test plan, GUI, UML, general outline and flowcharts does not contradict one another	1 day	08/04/2021	B
19	Handing in Criterion B to supervisor	Receiving feedback from supervisor	2 week	21/04/2021	B
20	Acting on supervisor's feedback	Edit Criterion B based on supervisor's feedback	1 day	22/04/2021	B
21	Downloading Visual Code Studio, setting up android and IOS simulators, creating account for Google Firebase, and downloading Flutter and Dart	All softwares and tools are ready to start programming	5 days	27/04/2021	C
22	Learn the basics of programming on Dart and Flutter	Know how to utilise widget on flutters for GUI, navigate functions to switch between screens, for and while loops, classes, super classes, inheritance, methods, and if statements	2 weeks	11/05/2021	C
23	Connecting Google Firebase to Flutter	Both IOS and Android devices can send and retrieve data from Google Firebase	1 week	18/05/2021	C

24	Learn streams and providers to retrieve, edit, add, delete and send data to cloud type data storage	Implementing streams and providers throughout the program so data can be inputted, outputted and utilised in other ways	1 week	25/05/2021	C
25	Set up the home screen, sign in screen and sign up screen	Completed Authenticate class, Sign In class, and Register class and GUI for all of them	1 week	25/05/2021	C
26	Set up the teacher home screen	Completed the TeacherHome class, ClassroomList class and buttons to navigate to TeacherClassroom class	3 days	01/06/2021	C
		Completed pop-up method newClassroomName to allow naming of classrooms	1 week	08/06/2021	C
		Develop delete button function for ClassroomList class to delete classrooms	3 days	11/06/2021	C
27	Set up the teacher selected classroom screen	Completed TeacherClassroom class and buttons to navigate to TeacherStudentStats class	1 day	12/06/2021	C
		Completed delete button function for TeacherClassroom class to remove students from classroom	1 day	13/06/2021	C
28	Set up teacher view selected student stats screen and teacher input selected student stats screen	Completed buttons to navigate to TeacherInputStudentData class, TeacherFeedback class, EditFeedback class and EditInputData class	1 day	14/06/2021	C
		Completed constructing text box and GUI of TeacherInputStudentData class	5 days	19/06/2021	C
		Completed tap function to record the position of the ball landing and calculating its function within TeacherInputStudentData class	1 week	26/06/2021	C
		Completed validation for the inputted data in TeacherInputStudentData class	1 week	03/07/2021	C
		Completed all calculation functions for effectiveness, accuracy, distance and speed in the TeacherInputStudentData class and an add function to record data inputted and calculations on the database	1 week	10/07/2021	C
		Completed displaying average accuracy, effectiveness, distance and speed values in TeacherStudentStats class	1 day	11/07/2021	C
		Completed filter function for program to display 30, 60, 90, 180, 365 days averages of all-time averages in TeacherStudentStats class	1 week	18/07/2021	C
		Completed graph display for accuracy, effectiveness, speed over a specific period of time and ball landing location in TeacherStudentStats class	2 weeks	01/08/2021	C
29	Set up input feedback screen	Completed TeacherFeedback class and add Feedback function to store inputted feedback on the database	2 days	03/08/2021	C
30	Set up edit feedback screen	Completed EditFeedback class, delete function to remove inputted feedback stored in the database and edit function to change inputted feedback stored in the database	5 days	08/08/2021	C
31	Set up edit input screen	Completed EditInputData class, delete function to remove inputted data stored within the database and edit function to change inputted data	2 days	10/08/2021	C
32	Set up student home screen	Completed SHome class and button to navigate SideBar class and StudentFeedbackPage class	1 day	11/08/2021	C
33	Set up student classroom list sidebar	Completed SideBar class	1 day	12/08/2021	C
		Completed joinClassroom function	1 week	19/08/2021	C
34	Set up student feedback screen	Completed display of feedback retrieved from the database through studentdata stream	2 days	21/08/2021	C
35	Editing bugs	Complete software that achieves all success criterias and is prepared to be Criterion C documentations	3 weeks	11/09/2021	C

36	Take screenshots of significant sections of the program and explaining it for Criterion C	Handing in Criterion C to supervisor before the deadline	3 weeks	02/10/2021	C
37	Acting on feedback received from the supervisor	Complete edit of Criterion C based on the feedback given	2 weeks	16/10/2021	C
38	Introduction for Criterion D	Understanding the requirements for Criteria D	1 hour 30 minutes	20/10/2021	D
39	Recording all functionalities of the program and assess if all success criterias are achieved	Prepare video files for video editing	3 weeks	10/11/2021	D
40	Compile and edit video files into one video for Criterion D	Handing Criterion D for the supervisor	3 weeks	01/12/2021	D
41	Receiving feedback for Criterion D from supervisor	Editing Criterion D based on the feedback	2 days	27/02/2022	D
42	Introduction to Criterion E	Understanding the requirements of Criterion E	1 hour 30 minutes	27/02/2022	E
43	Conduct an interview with the client where they test out the product and give a review	Receiving client's input for Criterion E	1 hour	28/02/2022	E
44	Type up criterion E and prepare for CS IA submission for all criterias	Completed all criterias and submitted the CS IA	1 week	20/03/2022	E
45	Conduct product handover to the client	Successful handover and program is installed on the client's iPhone	1 day	21/03/2022	N/A