B - Solution overview

Record of tasks

Task number	Planned action	Planned outcome	Time estimated	Target completion date	Criterion
1	Ask my friends and relatives to see whether they are potential clients.	Choose the client.	~	~	A
2	First talk with my uncle to know his problem and what should my solution solve.	Determine the type of product. An interpreter application.	20 min	19/02/2022	A
3	Talk with my CS teacher to know if the project was appropriate.	Get approval.	10 min	11/03/2022	A
4	Exploration. Search for similar open-source software, in which language is better to do it, useful APIs and libraries.	Decide a language: Python. Elaborate a set of tools to make the app → Notes.	2-3 h	Before 01/04/2022 (will be updated)	B
5	Write the problem statement and the rationale for the solution.	Complete criterion A (will be updated)	40 min	24/03/2022	A
6	Start the record of tasks.	~	>1 h	Start date 24/03/2022	B
7	Write the script for the interview with the client on the second talk.	Decide what to ask him.	20 min	27/03/2022	A

8	Second reunion with my uncle. Interview.	Discuss in detail the app functionality and behaviour.	30 min	27/03/2022	A
9	Read the documentation of the tools that I will use: - Googletrans - speech_recognition - gTTS	Annotate useful functions and learn how to use them for my application.	40 min 20 min 20 min	26/10/2022	B, C
10	Read the GTK+3 tutorial.	Learn how to make a GUI for python3 apps.	3h	26/10/2022	B, C
11	Code the skeleton of the Interpreter() class		2h	30/10/2022	C
12	Further work on Interpreter() class had delays due to system issues	Redo all work	3h	31/10/2022	C
13	Small testing on Interpreter() class main functions → translation and speech	Check it works and manage possible exceptions	30min	31/10/2022	C
14	Start designing the interface with Glade	Create de interface	1h	8/11/2022	C
15	Create the Hadler() class and brief outline	Join together Interpreter() and interface	30min	8/11/2022	C
16	Add toggle button	Develop main functionality of the app	1h	10/11/2022	C
17	Create dictionaries files	Load languages easily	10min	10/11/2022	C

18	Create __main__ file	From which call everythi	30min	11/11/2022	C
19	Further work on the interface	Make app more user responsive	1h	11/11/2022	C
20	Further work on the Handler() class	Write events for the signals raised by widgets added	1h30min	13/11/2022	C
21	Find a way to make the Handler() display the text instead of the Interpreter()	Create separated layers (translation, interface) each controlled by a class	3h	19/11/2022	C
22	Testing whole app and bug finding	Ensure that the app works as expected	2h	23/11/2022	C
23	Implement the copy to clipboard functionality		40min	25/11/2022	C

24	App is too simple, work on
	  - Interface
	  - Handler()
		Added more functionalities to the app such as translation history.	4h	29/11/2022	C

25	Personalise interface	With CSS			
26	Comment code	Increase readability before writing criterion C	1h	24/02/2023	C