Criterion B – Record of Tasks

Contents

Record of Tasks	3
References	11

Record of Tasks

Task Number	Planned Action	Planned Outcome	Time Estim ated	Target Completion Date	Criterion
1	Introduced to the IA by computer science supervisor.	Understand the IA requirements by reading through the documentation provided by the IB.	2h	03/04/2023	А
2	Come up with potential topics for the IA.	Decided on the topic that the IA will be about.	1h 30m	10/04/2023	А
3	Discuss with my father, the client, about the solution to his problem.	Understand why my client, my father, needs the program I will create and what problem I will be solving.	30m	18/06/2023	А
4	First interview with the client.	Discuss the main idea behind the program and what my father expects it to be able to perform.	45m	20/06/2023	А
5	Request permission to pursue this idea from my computer science supervisor.	Get the idea approved and begin working on it.	10m	20/06/2023	А
6	Fulfilling Criterion A by writing the document.	Planning the program to satisfy the requirements of the IB, creating success criteria and everything else required.	2h	02/07/2023	А
7	Create mockups of the program interface.	Create a mockup of how the program will look and feel and request feedback on it.	1d	04/07/2023	В

	Interview with	Get feedback on the			
	client to get	currently designed			
8	feedback on the	interface and make	25m	06/07/2023	В
	interface	any changes if			
	changes.	necessary.			
	Create final	Finalize the			
	mockups of the	mockups for the			
9	prototype design	interfaces based on	2h	07/07/2023	В
	interfaces.	the client's			
		feedback.			
	Create use cases	Create a diagram			
	chart.	showing all the			
10		potential use cases	15m	07/07/2023	В
		for the client based	10111	0770772020	D
		on the success			
		criteria.			
	Create flowchart	Illustrate the flow of			
11	diagrams as well	a user when using	3h	08/07/2023	В
	as initial	the program.	30m	00/0//2020	
	flowchart.				
	Illustrate a	Create a diagram to			
12	versioning	show the planned	20m	08/07/2023	В
	diagram.	progress for the			
	Our standala	program.			
	Create a table	Show the different			
10	discussing the	variables I plan to	2000	00/07/0000	В
13	data types used.	use in the	30m	08/07/2023	В
		development of the			
	Creation of UML	program.			
		Create diagrams to			
	diagrams.	represent all the			
14		proposed classes in	1h	09/07/2023	В
		the program and the functionality			
		(methods) of each.			
	Develop a	Create a chart to			
	hierarchal chart.	illustrate the			
	Indiaronat onart.	proposed program's			
15		windows and how	5m	09/07/2023	В
		the interface will be			
		linked together.			
	Draw a	Illustrate a chart			
	connection	showing the			
16	chart.	different classes I	20m	09/07/2023	В
		plan to have in the			-
		program and the			
L	I	1 1 - 0 - 1 1 1 1 1 1 1 1	<u> </u>	<u> </u>	

		relationships between them.			
17	Create multiple data flow diagrams.	Create diagrams illustrating the flow of data through the program in certain scenarios.	1h	10/07/2023	В
18	Create testing plan table.	Write out a table listing all the success criteria and tests for each one with a method and expected outcome so that I can know if the program does what it is supposed to do.	2h 30m	10/07/2023	В
19	Write and design the document for Criterion B.	Add all the tables and figures to a document for Criterion B.	6h	12/07/2023	В
20	Create the "User" class.	Implement a basic model for the user.	30m	15/07/2023	С
21	Create the "CompanyList" and "Company" classes.	Implement the linked list functionality of companies, having them handled by the "CompanyList" class. Also, basic attributes are added and created.	2h	15/07/2023	С
22	Create the "Statistic" and "Data" classes.	Create classes representing statistics and add an ArrayList of that class to the "Company" class, representing how each company has multiple statistics. Also use the "Data" class for data point representation for statistics.	2h	16/07/2023	С

23	Create the basic "Authentication" class.	Implement a class that holds a "User" object as the currently authenticated user.	30m	16/07/2023	С
24	Develop the features for authentication.	Implement methods for logging in and signing up as well as storage in DAT file for userbase.	2h	17/07/2023	С
25	Configure the files that are created upon user startup.	When the program is started, files need to be generated (and certain folders) within the user's appdata folder.	45m	19/07/2023	С
26	Create storage of individual user file and companies associated.	Implement the loading functionality and saving for companies from the user file as well as the adding and removing of them.	2h	19/07/2023	С
27	Create the interface for logging in and signing up.	Using NetBeans create a new interface for the logging in and signing up.	1h	02/08/2023	O
28	Create main dashboard interface.	Create the new interface for the main dashboard where users can add companies.	2h	02/08/2023	O
29	Create main Company dashboard.	Implement the functionality for when a Company button is clicked from the overall dashboard.	1h 30m	12/09/2023	С
30	Create the final company CSV file ¹ template.	Each company has data and has this data stored alongside its details in the CSV file for the company. This	4h	16/09/2023	С

-

¹ (Comma Separated Values (CSV) Standard File Format, n.d.)

		was a complicated process figuring out a structure that works.			
31	Implement detail changing through company dashboard interface.	Implement the ability for a user to alter the name, description, and country of a company using the interface.	20m	16/09/2023	С
32	Add company removal and window refresh buttons.	Add the button to remove ("Delete") the company from the user's file holding the companies that belong to them. Also added a button to refresh the company interface.	15m	17/09/2023	С
31	Create the "Statistic" and "Data" classes	Added new classes to represent a statistic and data point in the system so that the program is able to load company data predictably.	1h	20/09/2023	С
32	Create statistics interface	Create the interface that opens the statistics (revenues and costs) of a company and displays a list of them.	30m	20/09/2023	С
33	Make statistics graphable by the program.	I added the functionality to click on a button which is the statistic and then it opens as a popup with a graph of the data.	2h	25/09/2023	С
34	Added user input validation to all inputs.	Made sure that user input during the stages of login/signup and	30m	10/10/2023	С

		adding a company are valid.			
35	Add functionality for getting the current value of the company.	Create the foundation for being able to calculate the value of the company in the current moment with current data.	2h	14/10/2023	С
36	Make it so that company value is calculated based solely on data from the last year.	This was a hard feature to code where only data from the most recent whole year is used to calculate the value of the company.	2h	18/10/2023	С
37	Add data extrapolation to the statistical data.	This was incredibly difficult to implement as due to the nature of the program it was hard to debug when something went wrong, took a while but settled on linear extrapolation with an exaggeration factor for extrapolating the statistic data.	3h 30m	27/10/2023	С
38	Created methods to extrapolate data for multiple statistics at once.	Implemented methods to loop through statistics extrapolating data for each one.	1h	03/11/2023	С
39	Method created to extrapolate all the data for a company and calculate the final value.	This method made it possible to calculate the value of a company over different periods of time using extrapolation.	4h 20m	10/11/2023- 12/11/2023	С
40	Implemented company value prediction into	Added a button and a popup prompting the user to input	15m	12/11/2023	С

	#In a a a	In account of			1
	the company	how many years			
	dashboard	ahead they want to			
	interface.	predict the value of			
		the company for (0 if			
		they want to get			
		current value).			
		When their value is			
		entered the program			
		returns a popup with			
		calculated value of			
		the company.			
	Creating	Setting up the basic			
	methods to be	methods that will			
41	able to combine	allow for company	1h	20/11/2023	С
41	data from a	merging, the	111	20/11/2023	C
	statistic together.	merging of the data			
		itself.			
	Create	Create the			
	functionality for	functionality of			
	merging	being able to take	3h 21/11/2023-		
42		_			С
	statistics from	costs and revenues	15m	23/11/2023	
	two companies.	from each company			
		and merge them.			
	Implement the	Create the			
	full merging	functionality where			
	functionality of	two company			
	creating a new	objects are taken	41	00/44/0000	
43	merged	and all their data is	4h	28/11/2023-	С
	company.	combined (apart	50m	01/12/2023	
	oompany.	from details) to			
		create a new			
	A al al man a m = 1: =	company CSV file.			
	Add merging	A button is added to			
	interface into the	the dashboard of the			
	company	company labelled			
	dashboard.	"Merging" that when			
		pressed opens and			
		interface where the			
44		user is prompted to	2h	07/12/2023	С
		select the			
		companies they			
		wish to merge and			
		write the new details			
		for the newly			
		merged company.			
45	Writing up of	With the finished	8h	28/12/2023-	С
40	Criterion C.	code I wrote all the		10/02/2023	

		documentation for Criterion C.			
46	Testing of individual classes.	To test that the functionality of each class works as expected.	1h	11/02/2023	С
47	Integration testing of classes.	To test that all classes collaborate as expected.	1h	11/02/2023	С
48	Gave program to client to test.	Allowed the client to test the program before doing the final interview so that they can test it and give their thoughts afterwards.	30m	12/02/2023	E
49	Final interview with the client.	Doing the final interview with the client to get their thoughts about the final product I have produced.	30m	14/02/2023	Ш
50	Write evaluation document.	Write the final evaluation document reflecting on future changes I could make as well as if the program has met the success criteria, I set with my client at the beginning of the IA process.	45m	26/02/2023	E
51	Recorded video.	Recorded the video highlighting all the functionality of the program.	10m	27/02/2023	D
52	Internal Assessment handed over	Handing over the final draft of my IA to my computer science teacher.	15m	?	A, B, C, D, E

References

Comma Separated Values (CSV) Standard File Format. (n.d.). Retrieved 2 27, 2024, from

Edoceo, Inc: http://edoceo.com/utilitas/csv-file-format