VANIER
CÉGEP/COLLEGE

Faculty of Computer Science

420-436-VA | System Development

DELIVERABLE #1

Due Date:

Tuesday February 4, 2025

Red Team

Alexander Nguyen

Ryan Dong

Gideon Eleboda

Shahzaib Ahmed

Client: Miles for Hope

Contact Name: Angie Xiong

SIGNATURES

We certify that this assignment is our own work.

I, **Alexander Nguyen**, **student ID# 2381040**, certify that I have contributed to this deliverable, A-N

I, **Ryan Dong**, **student ID# 6234591**, certify that I have contributed to this deliverable, R-D

I, **Gideon Eleboda**, **student ID# 2290137**, certify that I have contributed to this deliverable, G-E

I, **Shahzaib Ahmed**, **student ID# 2261712**, certify that I have contributed to this deliverable, S-A

STATEMENT

(Code from our E-Commerce class will be used for certain features of this project)

1 TABLE OF CONTENTS

2 EXECUTIVE OVERVIEW

Miles for Hope is a student-led charity run that aims to raise the most amount of money for children's hospitals in Montréal. This is an event where participants can sign up to run a certain distance and raise awareness for the charity. Furthermore, participants can also win medals, merchandise and other goods for participating in this event.

Our project is a **web platform** for a **charity run** event, where users will be able to donate to hospitals (CHU Sainte-Justine and Montreal Children's Hospital). They will also be able to register and be a member of donators. This website will facilitate charity donations and benefit users with a seemingly easy website to interact with. Moreover, this website will serve as an information hub for the charity event. We will have an online meeting via **Discord** on **Saturdays** from **9:00 PM to 10:00 PM**. Our main form of communication will be Instagram and Discord.

Our team will use GitHub as the central repository for the project to facilitate collaboration and management. We will manage tasks by prioritizing them through and developing our project plan using Microsoft Project. As required, a new team leader will be designated for each deliverable. Tasks will be assigned based on team members' preferences and strengths, focusing on backend, frontend, or database work.

The main **point of contact** with our client is Ryan Dong, since he is in close communication with the client and it's more convenient for him to stay in touch with them.

3 CLIENT

3.1 DESCRIPTION

Our client is an organization called **Miles for Hope.** The main coordinator of the charity is **Angie Xiong**, a health science student at Marianopolis College. It is a student-led organisation where participants can sign up to run for a certain distance to donate. Furthermore, anyone can feel free to donate to the cause. All donations will be split between **Montreal Children's Hospital** and **CHU Sainte-Justine**.

3.2 COMPUTER SKILLS AND LITERACY

Regarding computer knowledge, the client does not have technical knowledge to setup a website and handle payment processing. Therefore, it is crucial that the website can be easily modified according to their needs. In other words, the website needs to be intuitively designed with an upmost importance on user experience. Furthermore, other members of the organization must also be able to modify the website with ease.

3.3 DESCRIPTION OF BUSINESS PROBLEM

Our solution provides the charity a website where participants can sign up as well as donate to the cause. Moreover, the website will serve as a central hub for event information, updates and engagement. In addition, this website can also be easily shared across social media to promote the charity run. Preferably, the website will need to be bilingual to accommodate both Francophones and Anglophones.

4 TEAM ORGANIZATION

4.1 TEAM MEETINGS

Our **weekly meetings** will take place **every Saturday** from **9:00 PM** to **10:00PM** in a Discord group call. We prefer to have virtual meetings as it is much more convenient for everyone to discuss consistently. However, in the event of a team emergency, **all members** will be **on call** throughout the duration of the project. These emergency meetings will of course be on Discord.

See Team Logbook 1 for agenda content.

4.2 REPOSITORIES

Here is a link to our **GitHub repository**, where we will store all project-related materials, including our code. Additionally, finalized versions of our deliverables, reports, and project plan will also be kept in this repository.

GitHub Repository:

https://github.com/alexx-ngn/sysdev-project

Here is each team member's GitHub username:

USERNAME	NAME
alexx-ngn	Alexander Nguyen
ryandong05	Ryan Dong
Giddeon1	Gideon Eleboda
shahzaib786ahmed	Shahzaib Ahmed

Furthermore, we will be using **Microsoft Word** to document our reports and deliverables due to its advanced formatting compared to Google Docs. Its integration with our school accounts makes it easier to share team documents rather than manually adding personal accounts. In addition, its real-time collaboration feature makes it easier for the team to edit any documents without having to resolve conflicts.

Moreover, we will also be using **Microsoft OneDrive** to store all the project's documentation including deliverables, reports, team logbooks and other important files. Documentation will also be included in our GitHub repository.

OneDrive Link:

https://bit.ly/413sIor

In addition, for assigning tasks, we find **GitHub Projects** to be an elegant solution as it is integrated with our project repository. Issues and pull requests in the repository can easily be tracked and assigned to. We will be using a **Kanban** approach as it

GitHub Projects Link:

https://github.com/users/alexx-ngn/projects/2

As for our overall project plan, we will be using **Microsoft Project**.

4.3 COMMUNICATION STRATEGY

For our communication platforms, we will be mainly using **Instagram** and **Discord**. Instagram will be used for general discussion about the project, such as clarifying questions about our deliverable reports or sharing new updates with the team. On the other hand, Discord will be used for team meetings and technical discussions. Its screen and file sharing capabilities make it well-suited for sharing our development work. To facilitate this, we have set up group chats on both Instagram and Discord.

We will have an online meeting via **Discord** on **Saturdays** from **9:00 PM to 10:00 PM**. During this meeting, we will discuss technical implementations and assigning tasks. We will also discuss which major tasks should be prioritized and expected deadlines.

In the event of an emergency, all members will be **on call** throughout the duration of the project and discuss such events in a **Discord** call.

The **policies** we have put in place are as follows:

POLICY	DESCRIPTION
Work as a team.	Team members should communicate with each other and inform them about any issues.
Follow the project plan.	Team members are expected to complete their assigned tasks by the given deadline. If there are any delays, they must inform the team about it.
Attend the weekly meetings.	Everyone is expected to attend the meeting in a timely manner. If they cannot, they must inform the team beforehand.
Major decisions must be unanimous.	Everyone must have a consensus on major decisions regarding the project's direction, tech stack, design, or workload distribution. If there is disagreement, a discussion must take place to resolve any conflicts.
Respect each other.	Everyone must treat each other with respect and be open to other's opinions and ideas.

4.4 AREAS OF RESPONSIBILITY

The **minute-taker** for each meeting will be Shahzaib Ahmed. With that being said, anyone else is free to take on the minute-taker role if they so desire.

The **main point of contact** with our client will be Ryan Dong, as he is the closest with the coordinator of the charity run.

Team members will rotate through most tasks and responsibilities. Furthermore, the **SCRUM master** assigned to a deliverable will also serve as the team leader for that deliverable. For the first deliverable, the instructor will appoint the team leader, while members will select the leader for subsequent deliverables. With that being said, the roles of minute-taker and point of contact will remain the same. Maintaining a consistent minute-taker is essential for ensuring cohesive and reliable meeting notes.

For the final product implementation, specific tasks will be assigned to the given team members on the table below.

IMPLEMENTATION TASK	NAME
Back-end Development	Ryan Dong and Alexander Nguyen
Front-end Development	Ryan Dong and Alexander Nguyen
Database	Shahzaib Ahmed and Gideon Eleboda

4.5 CLIENT CONTACT

The **point of contact** with the client for the duration of the project will be Ryan Dong. He is in closer proximity to the client and their group, and it will facilitate keeping track with the client's needs.

4.6 REPORTS

The **team leader** will be responsible for ensuring that the necessary reports are prepared properly, and on time for each deliverable.

Below you will find the team leaders for each deliverable.

DELIVERABLE #	TEAM LEADER
1 | Project Plan	Alexander Nguyen
2 | Requirements gathering and analysis	Ryan Dong
3 | Use cases and UML Diagrams	Gideon Eleboda
4 | Prototype UI and client comments	Ryan Dong
5 | Database Design	Shahzaib Ahmed
6 | Implementation and client comments	Alexander Nguyen

4.7 TEAM CONTACT INFORMATION

In the following table, each member's contact information will be provided including their name, email address, and phone number.

NAME	EMAIL	PHONE NUMBER
Alexander Nguyen	alexander.ngn1@gmail.com	(438) 871-4350
Shahzaib Ahmed	Ahmedshahzaib203@gmail.com	(438) 526-2971
Ryan Dong	Dongr1118@gmail.com	(438) 406-7559
Gideon Eleboda	deoneleboda@gmail.com	(438) 366 7915

5 PROJECT PLAN

As a team, we have developed a project plan based on the details provided in the project instructions, covering all deliverables. When uncertain about a task's specifics, we relied on our judgment and assigned it to the team member who appeared most passionate or skilled in that area. Deadlines were established with the client, we are expected to finalize our solution for **mid - march**. We applied this approach to all deliverables, ensuring a timeline that is realistic.

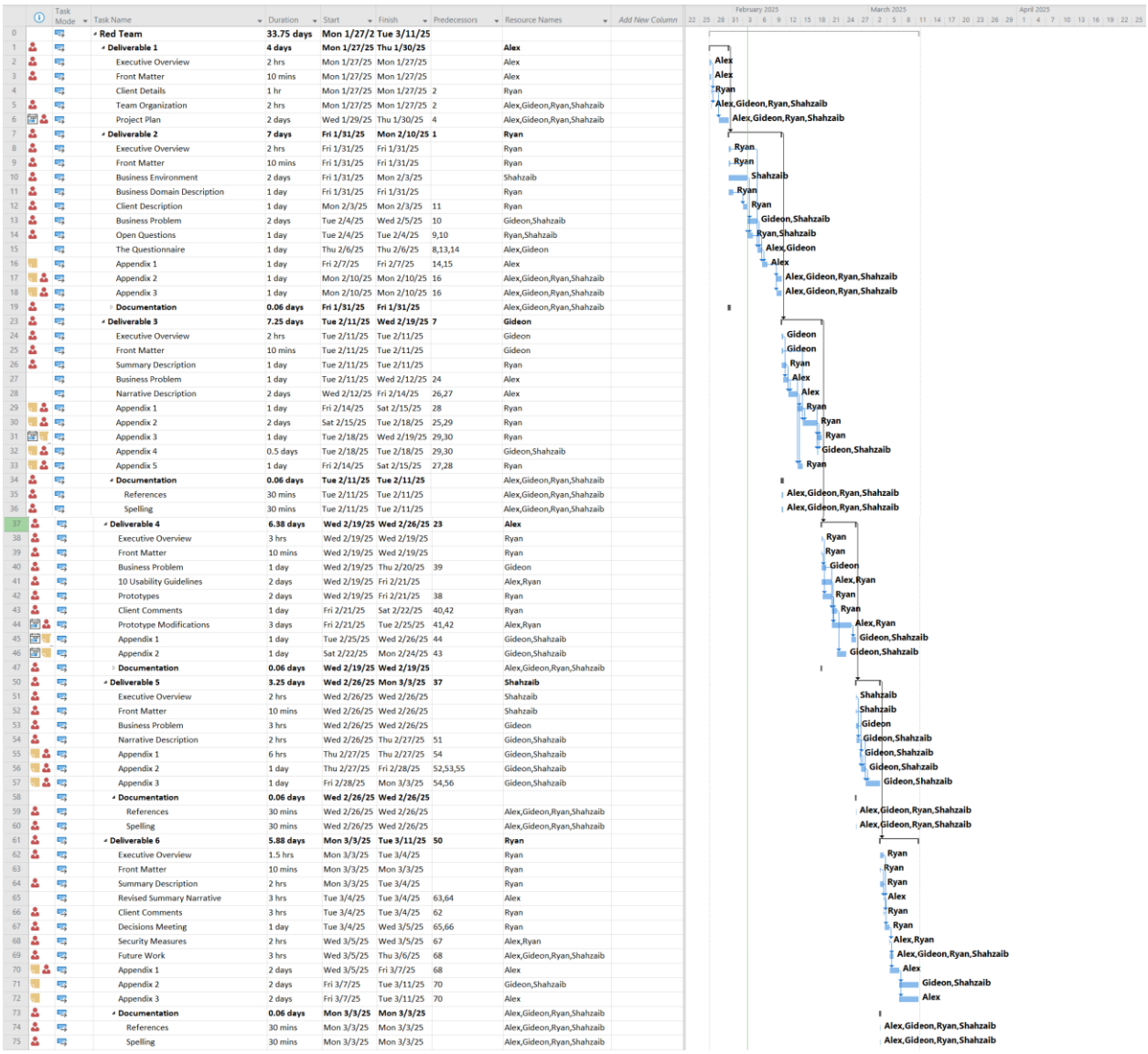
For reoccurring tasks across the deliverables, we decided to assign the main tasks to the team leader as they are the most suited for the corresponding deliverable. For instance, the team leader will proceed to complete the Executive Overview for each deliverable. With, some team members will have to do this task multiple times as we are only 4 members.

Furthermore, for documentation, everyone on the team will revise for any grammar mistakes and references as everyone's' proficiency is about the same.

For unique, non-repetitive tasks, we assigned them based on team members' strengths. When estimating task durations, we followed a simple approach: appendix-related tasks would most likely take days, while all other tasks would typically be completed in hours or minutes—unless a team member felt they needed additional time for a specific task.

Although we have designated individuals for each task, we remain flexible in case unforeseen circumstances arise. Furthermore, as mentioned earlier, we are not yet fully aware of all the responsibilities tied to each task. Once we have a complete understanding of what each task involves, we will be able to make informed decisions about task assignments.

To avoid any unexpected changes during the project, we will re-confirm the assignment of tasks to each team member before starting each deliverable. During this step, we will ensure that tasks are distributed evenly. Once all tasks have been confirmed, there will be no further changes in responsibilities for the duration of the deliverable.



	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Add New Column
0		**Red Team**	**33.75 days**	**Mon 1/27/25**	**Tue 3/11/25**			
1		**Deliverable 1**	**4 days**	**Mon 1/27/25**	**Thu 1/30/25**		**Alex**	
2		Executive Overview	2 hrs	Mon 1/27/25	Mon 1/27/25		Alex	
3		Front Matter	10 mins	Mon 1/27/25	Mon 1/27/25		Alex	
4		Client Details	1 hr	Mon 1/27/25	Mon 1/27/25	2	Ryan	
5		Team Organization	2 hrs	Mon 1/27/25	Mon 1/27/25	2	Alex,Gideon,Ryan,Shahzaib	
6		Project Plan	2 days	Wed 1/29/25	Thu 1/30/25	4	Alex,Gideon,Ryan,Shahzaib	
7		**Deliverable 2**	**7 days**	**Fri 1/31/25**	**Mon 2/10/25**	**1**	**Ryan**	
8		Executive Overview	2 hrs	Fri 1/31/25	Fri 1/31/25		Ryan	
9		Front Matter	10 mins	Fri 1/31/25	Fri 1/31/25		Ryan	
10		Business Environment	2 days	Fri 1/31/25	Mon 2/3/25		Shahzaib	
11		Business Domain Description	1 day	Fri 1/31/25	Fri 1/31/25		Ryan	
12		Client Description	1 day	Mon 2/3/25	Mon 2/3/25	11	Ryan	
13		Business Problem	2 days	Tue 2/4/25	Wed 2/5/25	10	Gideon,Shahzaib	
14		Open Questions	1 day	Tue 2/4/25	Tue 2/4/25	9,10	Ryan,Shahzaib	
15		The Questionnaire	1 day	Thu 2/6/25	Thu 2/6/25	8,13,14	Alex,Gideon	
16		Appendix 1	1 day	Fri 2/7/25	Fri 2/7/25	14,15	Alex	
17		Appendix 2	1 day	Mon 2/10/25	Mon 2/10/25	16	Alex,Gideon,Ryan,Shahzaib	
18		Appendix 3	1 day	Mon 2/10/25	Mon 2/10/25	16	Alex,Gideon,Ryan,Shahzaib	
19		**Documentation**	**0.06 days**	**Fri 1/31/25**	**Fri 1/31/25**		Alex,Gideon,Ryan,Shahzaib	
23		**Deliverable 3**	**7.25 days**	**Tue 2/11/25**	**Wed 2/19/25**	**7**	**Gideon**	
24		Executive Overview	2 hrs	Tue 2/11/25	Tue 2/11/25		Gideon	
25		Front Matter	10 mins	Tue 2/11/25	Tue 2/11/25		Gideon	
26		Summary Description	1 day	Tue 2/11/25	Tue 2/11/25		Ryan	
27		Business Problem	1 day	Tue 2/11/25	Wed 2/12/25	24	Alex	
28		Narrative Description	2 days	Wed 2/12/25	Fri 2/14/25	26,27	Alex	
29		Appendix 1	1 day	Fri 2/14/25	Sat 2/15/25	28	Ryan	
30		Appendix 2	2 days	Sat 2/15/25	Tue 2/18/25	25,29	Ryan	
31		Appendix 3	1 day	Tue 2/18/25	Wed 2/19/25	29,30	Ryan	
32		Appendix 4	0.5 days	Tue 2/18/25	Tue 2/18/25	29,30	Gideon,Shahzaib	
33		Appendix 5	1 day	Fri 2/14/25	Sat 2/15/25	27,28	Ryan	
34		**Documentation**	**0.06 days**	**Tue 2/11/25**	**Tue 2/11/25**		Alex,Gideon,Ryan,Shahzaib	
35		References	30 mins	Tue 2/11/25	Tue 2/11/25		Alex,Gideon,Ryan,Shahzaib	
36		Spelling	30 mins	Tue 2/11/25	Tue 2/11/25		Alex,Gideon,Ryan,Shahzaib	
37		**Deliverable 4**	**6.38 days**	**Wed 2/19/25**	**Wed 2/26/25**	**23**	**Alex**	
38		Executive Overview	3 hrs	Wed 2/19/25	Wed 2/19/25		Ryan	
39		Front Matter	10 mins	Wed 2/19/25	Wed 2/19/25		Ryan	
40		Business Problem	1 day	Wed 2/19/25	Thu 2/20/25	39	Gideon	
41		10 Usability Guidelines	2 days	Wed 2/19/25	Fri 2/21/25		Alex,Ryan	
42		Prototypes	2 days	Wed 2/19/25	Fri 2/21/25	38	Ryan	
43		Client Comments	1 day	Fri 2/21/25	Sat 2/22/25	40,42	Ryan	
44		Prototype Modifications	3 days	Fri 2/21/25	Tue 2/25/25	41,42	Alex,Ryan	
45		Appendix 1	1 day	Tue 2/25/25	Wed 2/26/25	44	Gideon,Shahzaib	
46		Appendix 2	1 day	Sat 2/22/25	Mon 2/24/25	43	Gideon,Shahzaib	
47		**Documentation**	**0.06 days**	**Wed 2/19/25**	**Wed 2/19/25**		Alex,Gideon,Ryan,Shahzaib	
50		**Deliverable 5**	**3.25 days**	**Wed 2/26/25**	**Mon 3/3/25**	**37**	**Shahzaib**	
51		Executive Overview	2 hrs	Wed 2/26/25	Wed 2/26/25		Shahzaib	
52		Front Matter	10 mins	Wed 2/26/25	Wed 2/26/25		Shahzaib	
53		Business Problem	3 hrs	Wed 2/26/25	Wed 2/26/25		Gideon	
54		Narrative Description	2 hrs	Wed 2/26/25	Thu 2/27/25	51	Gideon,Shahzaib	
55		Appendix 1	6 hrs	Thu 2/27/25	Thu 2/27/25	54	Gideon,Shahzaib	
56		Appendix 2	1 day	Thu 2/27/25	Fri 2/28/25	52,53,55	Gideon,Shahzaib	
57		Appendix 3	1 day	Fri 2/28/25	Mon 3/3/25	54,56	Gideon,Shahzaib	
58		**Documentation**	**0.06 days**	**Wed 2/26/25**	**Wed 2/26/25**			
59		References	30 mins	Wed 2/26/25	Wed 2/26/25		Alex,Gideon,Ryan,Shahzaib	
60		Spelling	30 mins	Wed 2/26/25	Wed 2/26/25		Alex,Gideon,Ryan,Shahzaib	
61		**Deliverable 6**	**5.88 days**	**Mon 3/3/25**	**Tue 3/11/25**	**50**	**Ryan**	
62		Executive Overview	1.5 hrs	Mon 3/3/25	Tue 3/4/25		Ryan	
63		Front Matter	10 mins	Mon 3/3/25	Mon 3/3/25		Ryan	
64		Summary Description	2 hrs	Mon 3/3/25	Tue 3/4/25		Ryan	
65		Revised Summary Narrative	3 hrs	Tue 3/4/25	Tue 3/4/25	63,64	Alex	
66		Client Comments	3 hrs	Tue 3/4/25	Tue 3/4/25	62	Ryan	
67		Decisions Meeting	1 day	Tue 3/4/25	Wed 3/5/25	65,66	Ryan	
68		Security Measures	2 hrs	Wed 3/5/25	Wed 3/5/25	67	Alex,Ryan	
69		Future Work	3 hrs	Wed 3/5/25	Thu 3/6/25	68	Alex,Gideon,Ryan,Shahzaib	
70		Appendix 1	2 days	Wed 3/5/25	Fri 3/7/25	68	Alex	
71		Appendix 2	2 days	Fri 3/7/25	Tue 3/11/25	70	Gideon,Shahzaib	
72		Appendix 3	2 days	Fri 3/7/25	Tue 3/11/25	70	Alex	
73		**Documentation**	**0.06 days**	**Mon 3/3/25**	**Mon 3/3/25**		Alex,Gideon,Ryan,Shahzaib	
74		References	30 mins	Mon 3/3/25	Mon 3/3/25		Alex,Gideon,Ryan,Shahzaib	
75		Spelling	30 mins	Mon 3/3/25	Mon 3/3/25		Alex,Gideon,Ryan,Shahzaib	