Project Requirements

Project Name	Multiple Non-Profit Health and Wellness Web Platform
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User Requirement List			
ID	**Description**	**Priority (1-5)** *1 - highest*	**Acceptance Criteria**
1	Users will login to access certain features based on their role (basic user, professional, trail ambassador)	1	● User will click on the login button on the home page ● Given the user already has an account on the website ● User will enter their username and password on the login page ● If the login credential is correct, user will be taken to the homepage with additional features showing ● Users will be able to see options on the main page that will allow them to access their profile, trackers and additional features based on their role ● If the login credential is incorrect, a prompt will ask the user to put in their username and password again
2	Professional users will have professional accounts to access the professional View tab and make sure the login is very secure	1	● Professional users will login with their credentials which have pro level access tied to them ● Professional users can then navigate to the professional view tab ● Professional users can review and monitor patients' progress and activity graphically and textually from this page ● Professional users will also be able to provide direct feedback to their patients by inserting text into a dialog box

			● Professional specifies patient and sends feedback with enter or send button, which should then be displayed on corresponding patient's dashboard
3	Patient users will have a patient account to access their Patient Dashboard and make sure their login is secure	1	● Patients will be able to login to the website with OAuth2 ● This will ensure security by enforcing Username and Password for every account ● The patients will have access to Dashboard where they will be able to track their challenges and physical activities ● Also this data would be monitored by Health Professionals so that they can provide recommendations to the patients ● This account would be just limited to Tracking activities only
4	Users will be able to join groups to partake in weekly challenges, compare goals with others, and discuss	2	● After logging in, user will navigate to Weekly Challenges tab in the Wellness and Trackers section ● If the user is new and has not yet joined a group, this page will display a join group button to join a group (Okanagan Rail Trail to start, professionals may be able to create their own groups and have patients join them/request an invite) ● Once a group is joined, the Weekly Challenges page will display graphs comparing each group members' goal progress with each other ● Users will be able to view and compare how well they are doing each week versus their group members ● Users will be able to use a discussion board to chat with other group members by typing in the discussion text field ● Users will send their message with enter or a send button, which will be displayed on the discussion board and chatbox will be emptied
5	Trail ambassadors will have access to a calendar to	2	● Trail ambassadors will have an elevated account as compared to users ● The users will have access to Wellness tracker but they will also have access to Calendar

	view scheduled events as well schedule new events		• They can use it to create to new events and view already existing events • Calendar should have the options to switch different months • Users can click on the already existing event for a detailed description (View for detailed description TBD) • Users can click on "Add event" button, which will take them to a form where they provide details for the event • The details include Event date, basic description, registration link (External? TBD) and other options based on the event • After filling out the details the event will listed and visible in the calendar
6	Users will be able to access a walkthrough of the Okanagan rail trail, provided with geological trail information as well as information on the various landmarks	2	• Users will be able to use interactive map or diagram (TBD) • This will provide trail information like different landmarks on Okanagan Rail Trail • This includes different vegetations or trail information location markers • Users will be able to use it to navigate the ORT and learn different important features of the trail
7	Patient users will have access to resources for homeless people on their patients dashboard	2	• Users will be see different resources for homeless people in their User dashboard • This will include external links to emergency resources • Users will be able to get help information about homeless shelter • They will be navigate to website nearby shelters and other services offered towards homeless people
8	Patients will be able to log their exercise measures into an exercise tracker that tracks:	2	• Users will navigate to trackers page and input data (see requirement #2) • In the duration tracker, users will log approximately how long they exercised on the given day (in hours) • In the distance tracker, users will log approximately how far they traveled during

	exercise duration and distance, intensity and steps		exercise on the given day (walk, run, bike, wheel, etc.) (in km) ● In the intensity tracker, users will log how difficult or intense they felt their exercise was on the given day (light, moderate, or vigorous) ● In the steps tracker, users who have access to a device that tracks steps will log how many steps they took on a given day
9	Patients will be able to log their health measures into an health tracker that tracks: blood pressure heart rate, weight and height	2	● Given the user has an account on the website and is logged in ● Users will navigate to trackers page and input data (see requirement #2) ● In the blood pressure tracker, users will log their blood pressure level with their systolic over diastolic pressure (in mmHg) ● In the heart rate tracker, users will log their average heart rate at different intervals throughout the workout (in BPM) ● In the weight and height tracker, users will log their weight (in lbs or Kg depending on their preference) and height (in inches or centimeters) and will update it accordingly depending on any changes
10	Patients will be able to log their nutrition measures into an health tracker that tracks: food and vegetables, water and meals	2	● Given the user has an account on the website and is logged in ● Users will navigate to trackers page and input data (see requirement #2) ● In the food tracker, users will log their food intake throughout a given day and the food's nutritional information like calories, carbohydrates, fat, and protein (optional) which will automatically add with each meal ● In the water tracker, users will log their water and other liquid intake throughout a given day (in mL or oz)
11	Patients will be able to log their lifestyle measures into an lifestyle tracker that tracks: sleep, smoking and	2	● Given the user has an account on the website and is logged in ● Users will navigate to trackers page and input data (see requirement #2) ● In the sleep tracker, users will log the amount of time slept (in hours) ● In the smoking tracker, users will log how many cigarettes or other smoking devices

	other habits		● they've went through in a day ● In the other habits tracker, users will be able to input their own habit and unit of measurement of what they have used throughout a day
12	Users will be able to contribute by sending texts to a discussion board and see other user's texts as well	3	● Given the user has an account on the website and is logged in ● User inserts english texts into the discussion chatbox ● User sends the message via the enter key, or using their mouse pointer to click on the send button beside the chat box ● Message input will then be displayed on the discussion board and the chat box will be emptied ● The messages in the discussion board will be seen by all members participating in the discussion board
13	Trail ambassadors will be able to navigate to a page to review previous transactions.	Optional	
14	Logged in users or website visitors will be able to transact donations in a securely and timely manner (fundraising for events)	Optional	
15	Trail ambassadors will be able to create events, and later advertise them to website	Optional	

	users and visitors		
16	Users will have trackers such as: select a trail path, share their location, view their location and surroundings relative to the trail path, and show the weather for the day	Optional	
17	Users will be able to view a list of current, ongoing alerts for the trail	Optional	
18	Users will be able to submit an alert request if there is something on the path that needs attention	Optional	

Functional Requirement List			
19	Multiple health and wellness trackers will be available for users to log their progress. It will collect data from the user and display the user's past and present data.	1	• User will navigate to the trackers page • User will select the tracker that they would like to use • User will input their measurements into the tracker • User can edit past and present measurements, as well as have access to them • User will click on save to save their measurement logs

20	Different charts and graphics will be available for users to monitor and review their activity. Charts will take the data that the user has entered and plot and display the graph(s) accordingly.	1	- User will navigate to activity progress pages/patient dashboard - User will have multiple tabs to choose from depending on what health measure they are most interested in (or all graphs in one page w/ filtering, TBD) - User will then be able to view an assortment of charts and graphs displaying their progress and goals - Users will be able to view feedback from professionals as well
21	Ensure that anyone who is a health care profession will have access to their assigned patient's information	3	- Healthcare worker will login to the webpage - Healthcare worker will see their dashboard with special features such as patient information - Healthcare worker will provide feedback to the patient based on the patient's progress and information

Non-Functional Requirement List	
Name	**Description**
Maintainability	Website architecture must allow for easy long-term maintenance for when it is left to the community.
Security	The website should have mandatory login to use features. Different levels of access should be given based on login credentials. Secure SSL encrypted, web-based software and secure VPN encryption for data transfer.
Usability	The website should be easy for anyone to use, with simple methods to track/measure activity and visualize progress. Should cover all different user flows to be successful.
Compatibility	The website should work on desktop browsers as well as mobile devices so users can log their progress anywhere on any device.
Privacy	Individuals should provide their full identity to mentors, experts, and researchers, but should stay anonymous or aggregated to event volunteers and analytics. All data should be held within a password protected research warehouse.

Availability	Servers should always be maintained and active so users can access the site at any time to report and view progress.

List of user groups	
User group	**Description**
Patients	Patients are the individual users who plan on using the app to participate in a challenge, better themselves physically, or monitor activity for health professionals. These patients may partake as encouraged by their health professional or as a leisure experience to interact with the community and monitor their health and wellness.
Health professionals	Members from different medical/health organizations who will use the app to decide and set goals for patients using the app. If required, they will be responsible for setting physical activities for the patients based on their medical condition. They will also monitor data entered by different patients and provide recommendations accordingly.
Trail ambassadors	Trail ambassadors will organize events under "Walk, Bike, Wheel". They will also be able to use the app to participate in different challenges and able use the benefits of activity monitoring and recommendation from Health Professionals. They will also use this platform to educate the users about Okanagan Rail Trail and other trails surrounding it.