Multiple Non-profits and Health and Wellness Platform Requirements

GROUP C

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About the Project

- Web platform

- Connects the Okanagan Rail Trail with the Okanagan community

- Allow vendors and organizations to fundraise and create events

- Allows the community to participate in events and challenges

- Allow healthcare professionals to interact with the community

Welcome to Community Envisioning Platform

ORT Trail Ambassadors and those joining walk.bike.wheel Wellness Challenge

Click here for Public ORT Survey

Click for ORT Tracker and Wellness

New User Click here or at the top to register and Join TAs or ORT

Trail Ambassador - Click Here for TA page

Technical aspect

- Architecture
    - FastAPI
    - DJango CMS
    - MariaDB
- Virtual machine
    - Compute Canada
- Developmental tools
    - TerraForm
    - RedHat
    - Docker

- Programming language
    - Python, HTML, CSS, ReactJS, Javascript
    - Charting tools - google chart, D3js
- Testing
    - PyTest
    - Continuous testing
        - Test throughout development
    - Database testing
    - Accessibility testing

User Groups

- **All Users**
  - Visitors with/without account, patients, professional healthcare workers, and trail ambassadors
- **Professional Users**
  - From medical/health organizations
  - Set goals for patients
  - Monitor data entered by patients
  - Provide health recommendations
- **Patient Users**
  - Participate in a challenge
  - Better themselves physically
  - Monitor activity for health professionals.
- **Trail Ambassadors**
  - Organize events
  - Monitor recommendation from Health Professionals
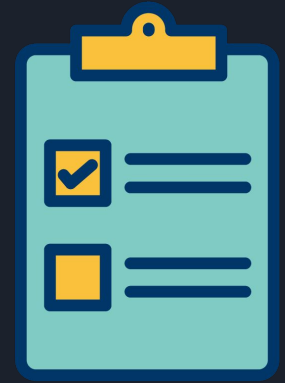 - Educate the users on Okanagan Rail Trail and nearby trails

User Requirements

- All users will login and have access to certain features based on their role

- All Users

  - basic user, professional, and trail ambassador accounts

  - join groups to partake in weekly challenges and compare goals with others

  - access to interactive map of the Okanagan Rail Trail

  - contribute to a discussion board

- Professional Users

  - access the Professional View tab where they can monitor patient progress and provide feedback

- Patient Users

  - access their Patient Dashboard where they can view progress charts and feedback

  - log data into an exercise, health, nutrition and lifestyle tracker

- Trail Ambassadors

  - access the Trail Ambassador View tab where they can view contact information and events and schedule new events on a communal calendar

Functional Requirements

- Multiple health and wellness trackers :

  - Available for users to log their progress

  - Will display the user's past and present data

- Charts and graphics:

  - Available for users to input and monitor their activity

  - Will be able to view feedback from professionals

- Health care professionals:

  - Will have a dashboard with special access to assigned patient's information

Non-functional Requirements

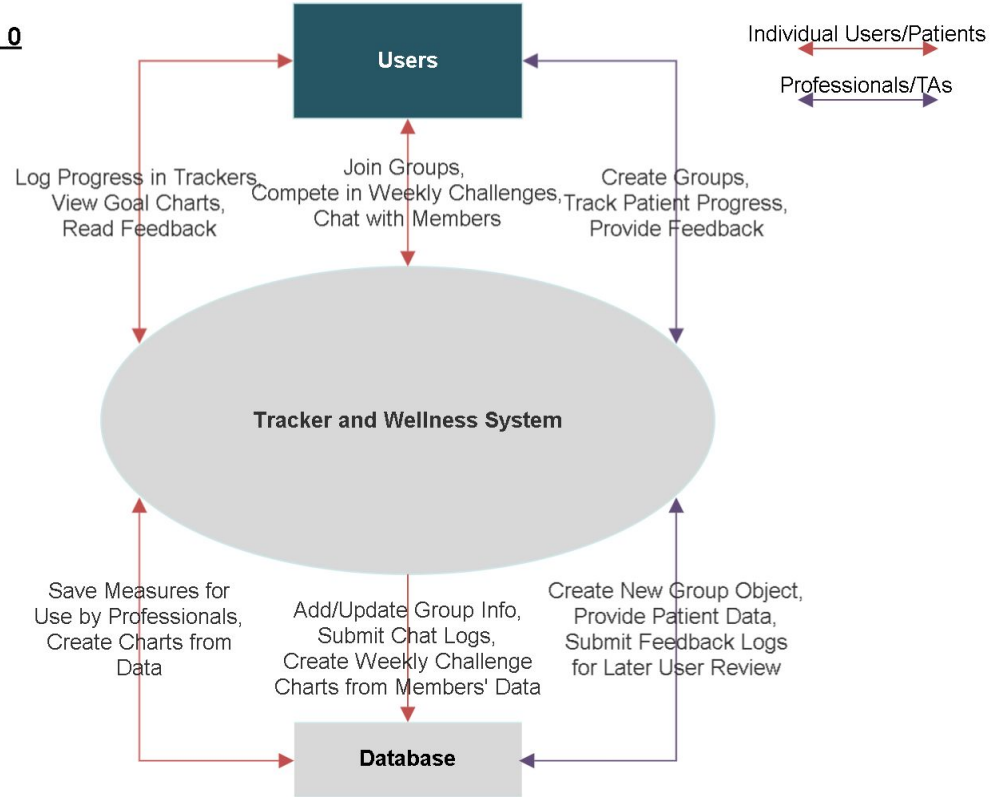| Non-Functional Requirement List	
Name	**Description**
Maintainability	Website architecture must allow for easy long-term maintenance for when it is left to the community.
Security	The website should have mandatory login to use features. Different levels of access should be given based on login credentials. 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.

Milestones

1. Prototype video demo I - November 18
   1.1. Users will login to access certain features based on role
   1.2. Professional users will have professional dashboard
   1.3. Patient users will have a patient dashboard
   1.4. Able to join groups to partake in weekly challenges

2. Peer testing report I - December 2
   2.1. Trail ambassadors will have access to a events calendar
   2.2. Users will have access to walkthrough of the Okanagan rail trail
   2.3. Patient users will have access to resources for homeless people
   2.4. Users will be able to contribute to discussion boards

3. Peer testing report II - March 11
   3.1. Log health measures into health and wellness trackers:
      3.1.1. Exercise duration, distance, steps
      3.1.2. Blood pressure, heart rate, weight and height
      3.1.3. Diet, water intake, meals
      3.1.4. Sleep, smoking and other habits

4. Prototype video demo II - April 28
   4.1. Trail ambassadors will be able to view previous transactions.
   4.2. All users will be able to transact donations in a securely and timely manner
   4.3. Trail ambassadors will be able to create and advertise events