

Final Report

1) Features Implemented and To Be Done

a) Implemented Features

- i) Used OpenStreetMap to display the different trails
- ii) Fixed the user information page to update or delete user's information
- iii) Trail control panel that allows admins to edit an existing trail route
- iv) Bench control panel that allows admins to edit an existing bench
- v) Setup email system that sends a confirmation once a user signs up, or click on the forgot password link
- vi) Display user's username on the homepage
- vii) Allow users to send feedback message to the admins
- viii) Admins can view feedbacks on the Feedback control panel
- ix) UI/UX design changes

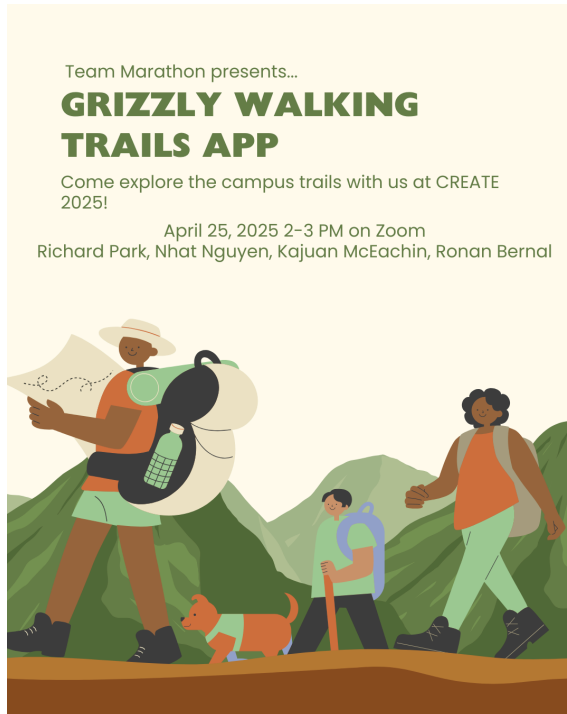
b) Remaining Features

- i) Create unit testing for the trail control panel
- ii) Create unit testing for the bench control panel
- iii) Remove some unnecessary requirement for feedback submission
- iv) Add an anonymous feedback submission
- v) Remove any remaining javascript window popup

2) Known Issues

- a) Security needs to be worked on more: login and signup.
- b) Analytics and Videos Functions were done by the in-class team.

3) Project Flyer



4) Screencast Demo and Deployment Link

a) Screencast Demo: <https://youtu.be/oLHjysCRNaA>

b) Deployment Link: Interns are working on merging the in-class and online class code to create one deployment link.

5) Clients and Team Introduction

a) Dr. Karen Lee Perell-Gerson



Dr. Perell-Gerson has served as a faculty member at the collegiate and graduate levels with appointments at UCLA and California State

University, Fullerton. Her primary area of practice and research has been in kinesiotherapy and biomechanics, specifically, the movement patterns presented with chronic diseases. At Georgia Gwinnett College, she examines the benefits of an applied learning environment that allows the student to be part of the research process and be prepared for career development

b) Dr. Kristie Walsdorf



Dr. Kristie Walsdorf graduated from Florida State University with a doctorate in physical education teacher education. While working on her Ph.D. she served as a full-time instructor in the Department of Kinesiology at Valdosta State University for four years. After leaving VSU, she was hired as an assistant professor of physical education at her alma mater, Florida State University. Walsdorf taught a variety of PETE undergraduate and graduate courses in addition to managing the student teaching internship program for seven years.

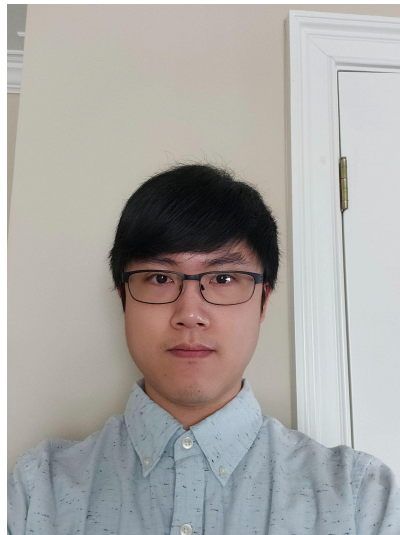
c) Dr. Cindie A. Corey



Ms. Cindie Corey is an instructor in the exercise science and physical education disciplines.

Team Introduction

- 1) Richard Park - Project Manager & Lead Programmer



- 2) Ronan Bernal - Lead Tester & Data Modeler



3) Kajuan McEachin - UI/UX Designer & Client Liaison



4) Nhat Nguyen - Documentation Leader/ Lead Programmer



6) Project Abstract

The Walking/Fitness Trail App enhances outdoor walks by providing users with informative content as they progress along a GGC trail using map, videos, and text. Developed with React, the app ensures smooth navigation, an intuitive interface, and a seamless mobile experience. The final goal is to deliver an app that looks good, functions well on mobile devices, and meets the needs of both fitness enthusiasts and nature lovers.

7) Testing Coverage, Methods, and Results

a) Testing Coverage: We currently tested the update and delete profile buttons. We also created testing for the feedback function.

b) Methodology:

- i) Jest unit tests to cover API actions and button functions
- ii) Post API testing to manually test models/schemas, connectivity to MongoDB, and to see if the REST functions operated as intended

c) Results: All test that we created passes. We still need to create tests for the trail and bench control panel.

8) Documentation

- a) Installation - The installation instructions are located in the README.md file located in the top-level folder of the GitHub repository

- b) For Developers - The following documentation is located in the docs-Fall2024 folder located in the top-level folder of the GitHub repository in the file,
 - i) Requirements Documentation
 - ii) Intellectual Property Contract
 - iii) License Documentation
- c) For Users
 - i) Installation
 - ii) System Requirements
 - iii) Quick User Guide
- d) How to Launch Application
 - i) Navigate to the home folder, open TrailsApp directory
 - ii) Open Client folder, start the Client:
 - (1) Open Client Folder open command prompt, enter “npm start”
 - iii) Open Server folder, start the Server
 - (1) Open Server Folder open the command prompt, enter “npm start”
- e) How to create an account
 - i) Open Navbar → Click on Login
 - ii) Enter a Username and Password + Fill out the rest of the form
 - iii) Minimum username size 3
 - iv) Minimum password size 4
- f) How to Sign In
 - i) Select Login from the NavBar
 - (1) Enter username and password, then select Sign In
- g) Navigate
 - i) Click on Navbar to display links to the web pages
 - ii) Click on links to access the different webpages
 - iii) Content
 - (1) Profile: Edit or Delete Profile
 - (2) Content: Nutrition, Exercise, Injury Prevention, Water,

(3) Trails: View Trails Maps

- h) Account types
 - i) Guest
 - i) Can access Landing Page, About, and Privacy Pages
- j) User
 - i) Can also access Trails, Exercise, and Nutrition Pages
- k) Admin
 - i) Can access admin navbar
 - ii) Can access admin manager page
 - (1) View and manage videos and user
 - iii) View video analytics

Code Documentation

- 1) Primary Directory: Client - Contains Frontend files
- 2) Primary Directory: Server - Contains Backend files

Server

- 1) Server.js - Main App
- 2) Directory: Routes - Contains route configurations
 - a) Functions are imported from files in the Controller folder
 - b) userRoutes.js
 - c) videoRoutes.js
 - d) trailRoutes.js
 - e) benchRoutes.js
 - f) feedbackRoutes.js
- 3) Directory: Controllers - Exports functions for handles Get Put Post Delete operations
 - a) userController.js
 - b) videoController.js
 - c) trailController.js
 - d) benchController.js
 - e) feedbackController.js
- 4) Directory: Models - Exports Schemas for Videos and Users

- a) video.js
 - b) user.js
 - c) trail.js
 - d) bench.js
 - e) feedback.js
- 5) Directory: Middleware - Contains middleware for handling authorization
- a) auth.js
- 6) Directory: `_tests_` - Contains tests for Sign in and video routes

Client


- 1) app.js - Main application
- 2) interface.css - Global Style Sheet
- 3) index.js - Renders app.js
- 4) Directory: actions - Exports functions for components and pages to interact with the API
 - a) auth, users, and videos
- 5) Directory: api
 - a) index.js - Exports Axios functions for routing
 - b) PrivateRoutes.js - Prevents non-admins from accessing admin pages
- 6) Directory: assets - contains videos, pictures, and other media
- 7) Directory: components - contains elements that are displayed across the webpages
 - a) Forms (Authorization, SignUp, Forgot Password, Forgot Password Link, Update User, Userinfo)
 - i) input.js: form used for getting user input for Forms
 - b) Navbar (Guest, User, Admin, Footer)
 - c) Control Panels (Admin)
- 8) Directory: constants
 - a) actionTypes.js - Exports action types
- 9) Directory: pages - Exports main web pages

10)Directory: reducers - Exports functions for updating states in response to actions

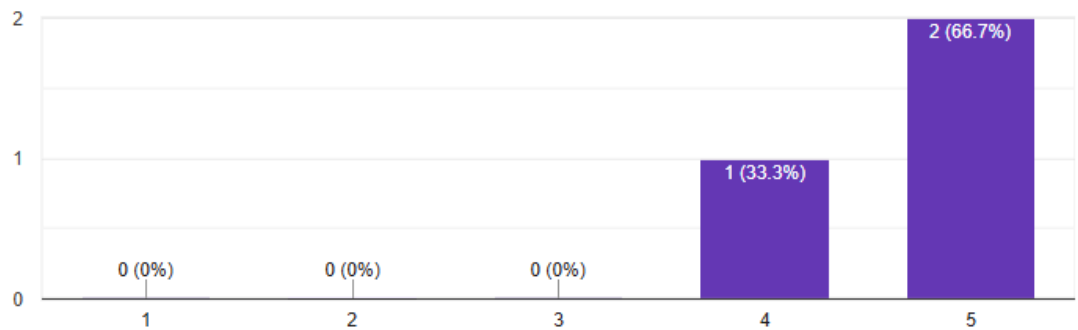
11)Directory: _tests_ - Contains tests for the Video and User actions

9) Usability, Testing and Focus Group Survey Results


How is the overall UI design of the website?

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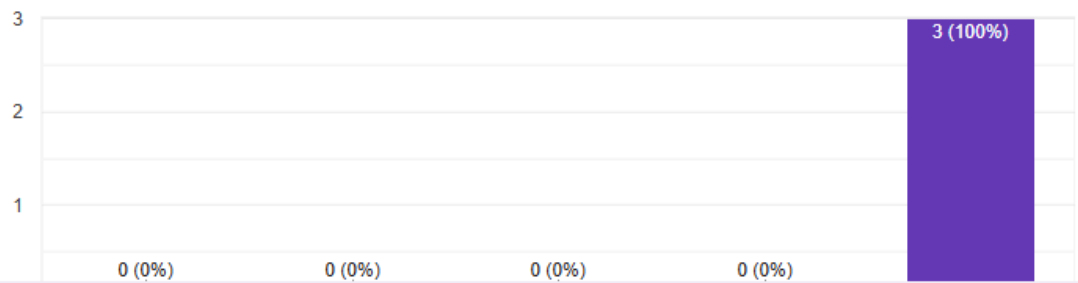
3 responses




Do you like the overall design of the trail map?

 Copy chart

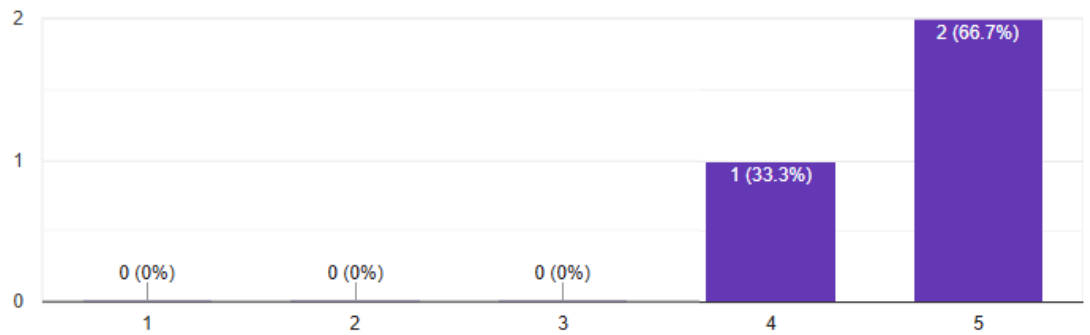
3 responses



Do you like the design of the trail buttons?

 [Copy chart](#)

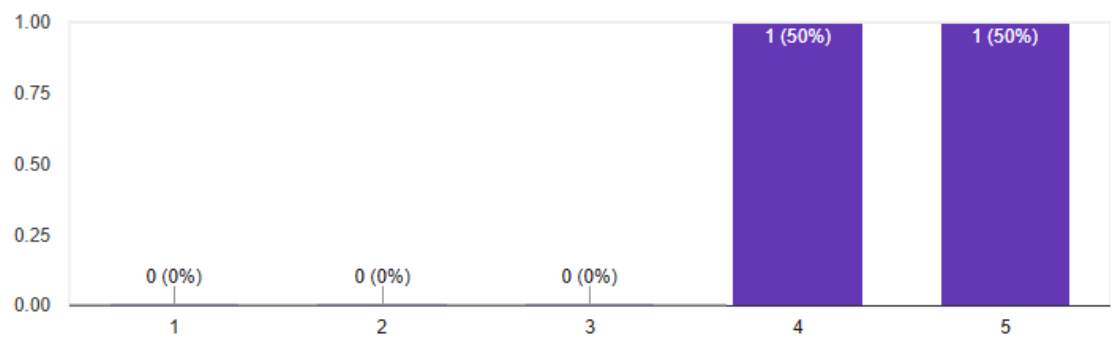
3 responses



(Admins) How is the overall design of the Trail Management?

 [Copy chart](#)

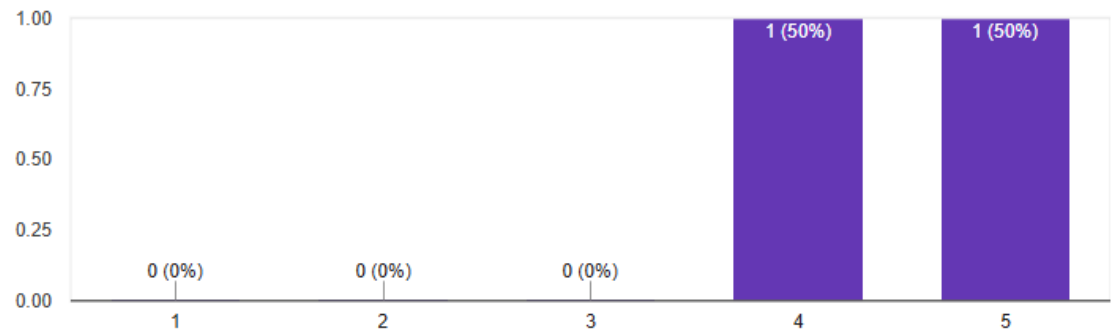
2 responses




(Admins) How is the overall design of the Bench Management?

 [Copy chart](#)

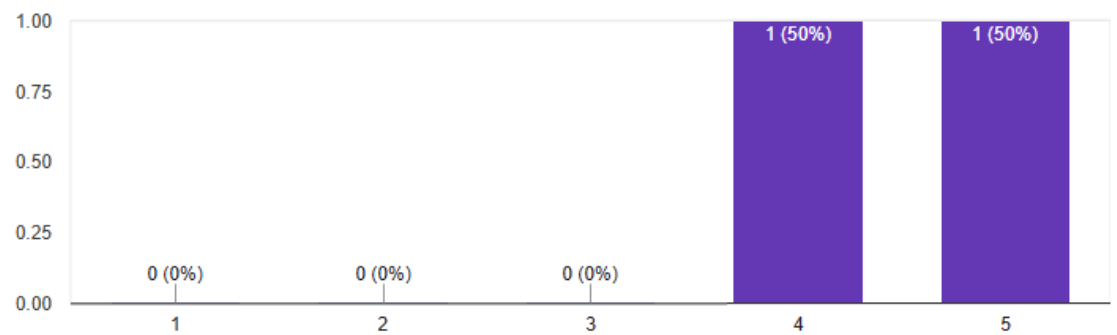
2 responses



(Admins) How is the overall design of the Feedback Management

 [Copy chart](#)

2 responses



Please share your overall thought of the website. What did you like about the website? What needs more improvements? What functions should we include onto the website?

1 response

Good

10) Documentation

All of this documentation pertaining to the current state of the project and any that our team have generated can be found in the README.md in the root folder and with /docs-Spring2025.

11) Software Usage License and Intellectual Property Terms

a) License

Walking Trails 2025 Licensing

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Intellectual Property Contract

Walking Trails App

Team Marathon and Stakeholders

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This intellectual property agreement is to ensure that all intellectual property created for or on behalf of the contributors to the Walking Trail App and website, and owned solely by the Stakeholders.

2. Ownership of Work Product

All content, designs, code, databases, documentation, media, and other materials created by the Contributor specifically for the Walking Trail App or website shall be considered "work made for hire" and shall be the sole and exclusive property of the Stakeholders.

3. Confidentiality

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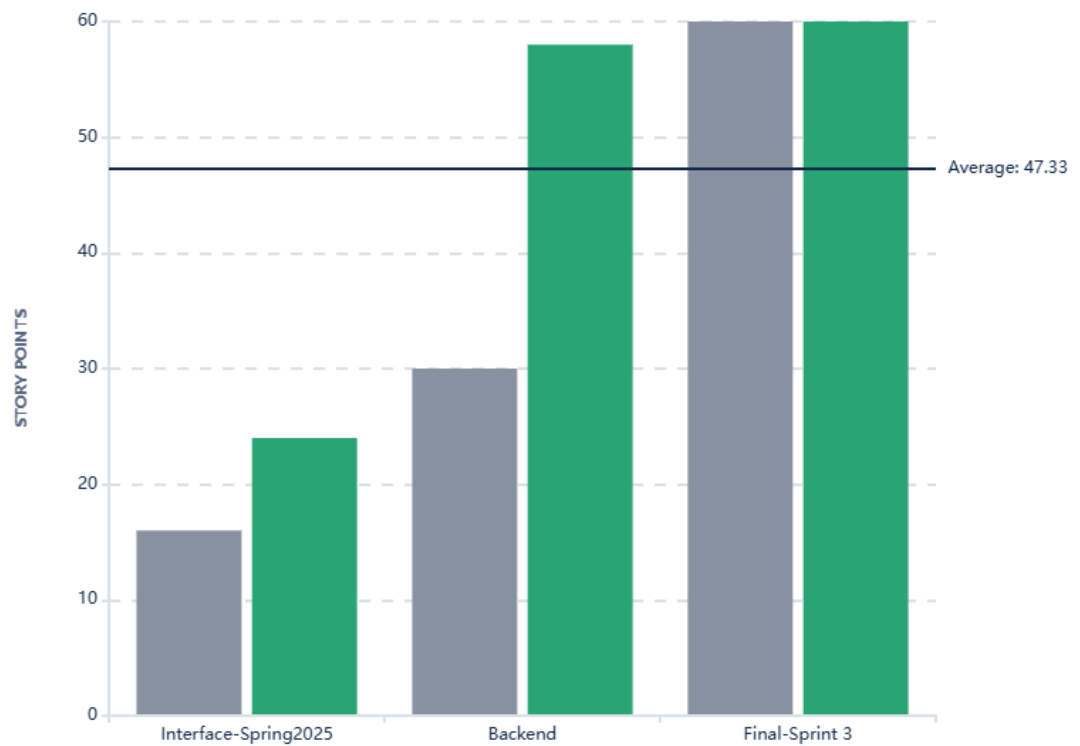
Signatures:

Name	Percent	Signature(First and Last Name Initial)
Ronan Bernal	10%	RB
Kajuan McEachin	10%	KM
Richard Park	10%	RP
Nhat Nguyen	10%	NN
Dr. Anca Doloc-Mihu	15%	ADM



Dr. Karen Perell-Gerson	15%	KPG
Dr. Kristie Walsdorf	15%	KW
Dr. Cindie Corey	15%	CAC

12)Sprint Velocity Charts and Team Reflection



Over the three sprints, our team showed strong improvement in both planning and execution. We started with a lower velocity in Sprint 1 but quickly adjusted, significantly increasing our story points in Sprint 2 and maintaining that momentum into Sprint 3. This growth shows that we learned how to better estimate tasks and manage our workload. One thing we would do differently is plan more aggressively early on to avoid underutilization. Overall, we are proud of our progress and will continue focusing on consistency and sustainability in future projects.