**AGILE REQUIREMENTS DOCUMENT**

## **[Walking Trail - GGC Trail Guide](https://ggctrail.onrender.com/)**

# Georgia Gwinnett College

# 1000 University Center Lane

# Lawrenceville, GA 30043

**Special Credit to Dr. Anca Doloc-Mihu’s Software Development II Section 01 Class**

**Created by Team Diamonds:** Syeda Khadija Kazmi, Kiet Ly, Luke Akridge, Anthony Wallace

**Demo Website:** https://ggctrail.onrender.com/

**VERSION** 1.0.0

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| **VERSION HISTORY** | | | | |
| --- | --- | --- | --- | --- |
| **VERSION** | **APPROVED BY** | **REVISION DATE** | **DESCRIPTION OF CHANGE** | **AUTHOR** |
| 1.0.0 |  | 01/21/2024 | Edited Format | Team Diamonds |
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# PROJECT DESCRIPTION

Walking Trail is a dedicated web application designed for GGC's gold, green, and gray walking trails. The app provides an interactive map of GGC's trails, highlighting specific exercises and activities tailored to each trail. Its purpose is to enhance the trail experience for students and faculty, offering easy navigation and highlighting exercises recommended for different trail segments. This application not only facilitates trail exploration but also promotes well-being by incorporating insights from exercise science students. In addition to exercise details, users can access nutritional facts and information about the biology surrounding the trails.

# PROJECT SCOPE

The project aims to create an MVP or minimum variable product for exercise science client faculty at Georgia Gwinnett College with the following features: QR Code, three easy-to-use databases, demographics information Google Form, and Administrator login access. The project is estimated to be completed in less than four months. Three iterations will take place and the project will rely on the client’s feedback. The scope is adaptable and more fluid. Changes are expected as the project moves on.

# FUNCTIONAL REQUIREMENTS

## **PRIORITY**

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| --- | --- | --- |
| Refer to the provided priority table, which enables you to implement a rating system for your requirements. This system provides the necessary visibility into the value, status, and description of each requirement, aiding in the assessment of whether a specific requirement is crucial for project success. | | |
| **Value** | **Rating** | **Description** |
| 1 | Critical | Meeting this requirement is essential for the success of the project; without it, the project cannot be realized. |
| 2 | High | While the requirement holds high importance for the project's success, the project could still be executed in a Minimum Viable Product (MVP) scenario. |
| 3 | Medium | The requirement holds significance for the project's success as it contributes value, yet the project remains feasible for implementation in an MVP scenario. |
| 4 | Low | The requirement is of low priority, meaning it would be a have, but the success of the project does not hinge on it. |
| 5 | Future | The requirement falls beyond the project's defined scope and is considered a potential component for a future release and/or feature. |

## **REQUIREMENTS CATEGORIES**

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| --- | --- | --- | --- |
| In this section, elaborate on the functional use of the project and categorize its requirements for clarity. You can replicate this section for additional project categories as required. The provided table comprises a unique ID for each requirement, detailed information about each requirement, its priority, and the individual responsible for driving or overseeing the requirement. | | | |
| **ID** | **Requirement** | **Priority** | **Raised By** |
| RC 1 | Create a QR Code to be able to login to the App | Critical (1) | Dr. Karen, Dr. Kristie |
| RC 2 | Create a database for managing the registration form | Critical (1) | Dr. Karen, Dr. Kristie |
| RC 3 | Create a database for video likes and dislikes | Critical (1) | Dr. Karen, Dr. Kristie |
| RC 4 | Create a Separate Login for Administrators | High (2) | Dr. Karen, Dr. Kristie |

**Descriptions and Justification for the Functional Requirements**

RC1.

Description: Allows students, faculty, and community to easily download the application.

Justification: Requires the link of the demonstration website to create a QR Code using Canva.

RC2.

Description: Allows Clients to have access to the demographics of GGC students, faculty, and the community for a Demographics Form via Google Forms.

Justification: Allows clients to show the connection between who uses the application more.

Also, allows clients to view the user’s likes and dislikes for the video content.

RC3.

Description: The registration form in the feedback on the thumbs up and thumbs down on the video will be added to the database.

Justification: Creating a database for video likes and dislikes is essential because it allows for the systematic collection and storage of user feedback on videos through the thumbs-up and thumbs-down mechanism.

RC4.

Description: Implement a separate login specifically for administrators which is different from standard user login and restriction on access to certain features within the application to authorized administrators only.

Justification: Enhances security by isolating administrative functions behind separate login to reduce the potential attack and limit unauthorized access to controls.

# NON-FUNCTIONAL REQUIREMENTS

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| --- | --- |
| Detail all non-functional requirements (NFRs) of the project, including such things as features, system behavior, and project characteristics that relate to user experience. | |
| **ID** | **Requirement** |
| NFR 1 | Safety ensured – prevents unauthorized access |
| NFR 2 | Swift responsiveness – seamless and speedy navigation |
| NFR 3 | Dependable – remains stable, swiftly recovers from errors |
| NFR 4 | User-friendly – appealing design, well-organized layout |

**Descriptions and Justification for the Non-Functional Requirements**

NFR1.

Description: Allows students, faculty, and community to easily download the application.

Justification: Requires the link of the demonstration website to create a QR Code using Canva.

NFR2.

Description: This allows the testing to be sufficient and is critical for the user to be satisfied with the usability of the application.

Justification: The speed of the application will make the user want to tell others about the application.

NFR3.

Description: Allows the application to protect the integrity of user data by implementing robust data validation to prevent data loss or corruption.

Justification: Ensuring data integrity safeguards sensitive information and prevents potential negative consequences.

NFR4.

Description: The application will feature an intuitive design that is easy to understand and navigate.

Justification: A user-friendly interface will help with positive user experience, encourages exploration and use of other features, thus improves user satisfaction.

# DOMAIN REQUIREMENTS

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| --- | --- |
|  | |
| **ID** | **Requirement** |
| DR 1 | Software Development |
| DR 2 | Exercise Science |
| DR 3 | Biology |

**Descriptions and Justification for the Domain Requirements**

DR1.

Description: Developers will be using cloud computing, app development, and database development under the category of Software Development.

Justification: MongoDB is a cloud-based database software. React is used for app development.

DR2.

Description: The application is used for exercise science students and has stretches and resistance training exercises.

Justification: The exercises are categorized by beginner, intermediate, and advanced. Plus, nutrition may be a future implementation.

DR3.

Description: The biology around the Georgia Gwinnett College Campus including trees, plants, and greenery can be included in the future.

Justification: The study of life defines biology which includes the nature on campus around the trails.