**Requirements Document**

**Walking Trail App Requirements**

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# VERSION HISTORY

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Prepared By | Date | Description |
| 1.0 | Jared | 08/25/2022 | Draft |
| 1.1 | Serena | 08/28/2022 | Final version |

# OverVIEW

This requirements document will provide both the functional and nonfunctional requirements for the Walking Trail App . The purpose of this app is to provide a tracking and information system for students as they walk through the trails that surround and traverse through Georgia Gwinnett College.

The intended audience of this document are the stakeholders of the project, the project manager, and the programmers involved.

# StakeHolders

|  |  |  |
| --- | --- | --- |
| Stakeholder Name | Organization | Description |
| Kristie Walsdorf | Georgia Gwinnett College | Professor |
| Karen Perell-Gerson | Georgia Gwinnett College | Professor |

# Business PROCESSES AFFECTED

The following business processes are “in scope”:

* New user sign-up
* Existing user log in
* Scan QR code
* Save trails
* Update trails
* Upload videos along the trail
* Upload information along the trail

# Applications

* The following applications are in scope:
* Walking-Trail App

# Assumptions/Constraints

* N/A

# RISKS

* N/A

# related documents

* N/A

# FUNCTIONAL REQUIREMENTS

|  |  |  |  |
| --- | --- | --- | --- |
| Requirement ID | Requirement Statement | Priority | Comments |
| FR001 | The app must enable users to create an account and log in/out | High |  |
| FR002 | The app must allow students to find and join their respective classes | High | This is how professors will be able to track their students’ progress. |
| FR003 | The app must prompt the user to scan QR codes to retrieve information about trails | High | Most important part of the app. |
| FR004 | The app must track and update a student’s progress through a trail | High |  |
| FR005 | An authorized user must be able to add new trails and their QR codes. | High |  |
| FR006 | The app should calculate the distance of the trail and store data about the walk | Medium | Will have to utilize GPS systems |
| FR007 | Users should be able to pause a trail and begin a new one | Medium |  |
| FR008 | The app must have a current activity page that shows the user their current trail | High |  |

# NON-FUNCTIONAL REQUIREMENTS

|  |  |  |  |
| --- | --- | --- | --- |
| Requirement ID | Requirement Statement | Priority | Comments |
| NFR001 | The app must be secure and void of any fraudulent activity | High | Must find a way to secure the database |
| NFR002 | The app must run smoothly with minimal lagging | Medium |  |
| NFR003 | The app must be able to store thousands of user credentials | High |  |
| NFR004 | The app must match the correct data to the correct QR codes with no duplicates. | High |  |