

Vulcan Activity Tracker

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Margo Bonal

John Gerega

Luke Ruffing

Vulcan Activity Tracker

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Team Members

John Gerega – *Computer Science* – Proposal

Margo Bonal – *Computer Science* – Specifications /Design

Luke Ruffing – *Computer Science* – Requirements

Introduction

This application aims to use a database and artificial intelligence analysis in order to encourage students to maintain a healthy lifestyle through healthy competition by uploading activities that they have completed into one platform.

Motivation

There are many activity tracking applications out there, but most of the useful features are hidden behind a paywall. Take Strava, for example; they have an $80-per-year paywall on their app. This may not be much if you are a professional athlete or are training for a competition, but if you are just generally active it is not worth the price. Our application will allow users to access some of the higher-end features without incurring a fee.

Objectives

1. Database
   * A working database is crucial in this program as the user will be entering activities into the application and all the details of this activity need to be stored accordingly. Not only this, but the user will be able to view other people’s activities.
2. Website
   * A web-based application would allow everyone with a PennWest email to log in to the application and track their desired activity.
3. User Friendly Interface
   * Designing the dashboard with a user-friendly approach will promote the Vulcan Activity Tracker’s use in daily campus life.

Implementation techniques

*Docker*

Docker is a client- server application to build and run a database container. This tool creates a blueprint of the database tables and columns in a cloud-based method to allow for group collaboration and reusability.

*Python-Flask Backend*

The programming language Python will be implemented a backend framework for this web-based application. Flask will be used to integrate with the python language and serve as an API framework to streamline server-side development.

HTML frontend (base templates)

API (ai analysis)

Potential Users

The potential users of the Vulcan Activity Tracker are PennWest students that enjoy athletic activities. These activities could be student athletes that want to track their progress, personal training planning, and a social aspect of group exercises. By encouraging users to participate in friendly athletic competitions on campus, the Vulcan Activity Tracker can promote a healthy and fun campus lifestyle.

Features