**PennWest California Vulcan Activity Tracker**

**CMSC-4900-001-Senior Project I**

**Fall 2025**

**Project Requirements**

**October 20th, 2025**

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**Instructor Comments/Evaluation**

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# **Abstract**

This project, the Vulcan Activity Tracker, is an activity tracker that can be accessed by students attending Pennsylvania Western University’s California branch. The activity tracker will allow students to track any physical activity they participate in, which may include running, sports, walking, lifting, and many more. This project will use a Docker container, a database, and a Python backend. All these components will be used to track user data, such as login information and the activities the user has completed. The Docker container will be used to keep the frontend, backend, and database in one place. This will also ensure that the app runs consistently across multiple platforms. The database will store all the users and their data. Functions to retrieve, create, and delete data will be written in the Python programming language. The user will be able to add activities manually and view other users activities. This document will cover all necessary details for the user and the development team regarding the functionality of the final product.