

Criterion A: Planning

Client/Advisor Identification and Overview:

A track and field coach has asked a Computer Science HL student to create an efficient athlete database that should be able to add/delete athletes as well as have the ability to store the times for different distances (100m,200m etc.) on different dates with the corresponding athletes.

Basically, a digital coaches' clipboard. Because there are not any free Track and Field database desktop applications, and the coaches' clipboard apps on the Google Play or Appstore are expensive, cluttered with extraneous features, and have complex user interface, the student has set out to create a product that does the job in a fast and intuitive way, free of charge. The student has chosen his Computer Science HL teacher as his adviser, due to her qualification as a Bachelor's degree holder in Computer Science.

Defining the Problem:

The issue this product is aiming to solve is the effective and reliable storage of data pertaining to track and field. Almost all coaches currently use the classic wooden clipboard for recording the athlete's times. However, the problem with big and bulky clipboards that consist of loosely fitted paper sheets is that the sheets with the information often get lost or damaged (Problem). When important data about the athletes' times gets lost, and there is no back up to retrieve the data, it creates an unnecessary hassle. The athletes cannot be entered in competitions without at recorded and accurate time, the athletes cannot apply for scholarships without accurate data and most importantly, the athletes and coaches cannot monitor their development. As such, the client that this situation is will be developed for is my coach who is the sprinting coach at the University of Calgary Track Club. Due to her age, the product must have an easy to use user interface, while also being reliable and fast in terms of data storage and retrieval for both the client and her athletes.

Rationale for Proposed Solution:

I believe this is essential as Coaches will no longer have to deal with cluttered, lost or damaged information on physical notepads anymore once the solution has been created. This will allow them to input, store and edit information on the spot. They can save themselves from wasting precious minutes flipping through pages just to get to a single athlete's file to check times, instead, after a series of button presses they can find the athlete's profile within the application. Furthermore, this will give them the opportunity to view their athletes' progression, as the stored and organized information can be accessed at any time. As an athlete, I believe that this product is beneficial as not only does it allow coaches to keep an organized and reliable digital database, it also gives them the opportunity to access, input, edit and analyze data at an exponentially faster rate.

Success criteria

- Comprehensive and intuitive interface.
- Ability to enter/save data at a fast rate.
- Ability to output organized and coherent data.
- Ability to check each athlete's times for a given day and fastest times.
- Ability to add or delete any athlete from database.

Word Count: 519