

Criterion A: Planning

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Client and Advisor:

The client for my project will be Ramya Kannan, who is on the Girls Track & Field team at Skyline High School, specializing in the throwing events. My advisor for the project is Divya Rajasekhar, a relative who has taken Computer Science courses at the University of Washington. My consultations with both of these individuals will be documented in Appendix B. I plan on using the programming Language Dart and my SDK will be Flutter.

The Scenario:

The current issue is that there isn't an accessible visually based tool for high school student-athletes that shows each athlete's improvement from meet to meet, along with overall team improvement/progression.

Solution:

My solution to this problem will be an application called "Track The Field" which will allow student-athletes to track their progress in a way that is quick, simple, and user friendly.

Rationale:

My solution to this problem is to create an application that first allows users to input their results for each of the three throwing events per month. In the data input screen, users will be asked to choose their event, their distance in feet, and the date they threw. After the user inputs at least two pieces of data for each event per month, the app will generate a line graph so that the user can see how they have been progressing at their event.

Success Criterion:

- 1.) User can input their name and after inputting data, the homepage will greet them using the name input if they have already inputted distances
- 2.) If the user has not yet inputted distances for their event(s) the homepage will ask them to start by inputting something

- 3.) The app will not allow users to input letters or other characters in the “distance” field which requires numerical data.
- 4.) If the user has not yet inputted two values per each event in each month’s tab, the app will inform users that in order to see a line graph they must input at least two values
- 5.) The app will have different tabs for each month.
- 6.) The app will have different line graphs for each event per month
- 7.) Each tab will be able to show more than one graph at a time.
- 8.) If the user inputs >2 unique of data for an event per month, the line will have a “curved” shape.
- 9.) Users will have the option to change their name, and once their name is changed the homepage will state “Hello <new name>” instead of the old one.

Word Count: 412