Defining the Problem:

The head coach of my local track and field team is currently managing a roster that consists of more than 50 athletes. He needs to get his varsity and Junior varsity rosters finished as well as know who is eligible to compete in certain meets.

The head coach is struggling to keep up with the amount of players signing up for track meets and is struggling to keep track of who can qualify for varsity meets and who can qualify for Junior-varsity meets. Right now, my track coach uses a notebook to track all of the players' times. He has to track each player manually and see who has the fastest times and who has the slower times. He feels that manually tracking and recording players and signing them up for meets is a very tedious task and wants to make the job faster.

He came up to me for help in creating a Java GUI on simplifying his process. I decided to use this project as my Internal Assessment because I felt that this project is a good way to demonstrate my problem solving skills as well as my knowledge when it comes to computer coding and creating websites. I also know that this project will help me expand my knowledge of coding and let me take my skills to the next level.

(224 words)

Rationale:

I have decided to use Java as the main programming language for this project. Using Java can allow the coach to add different meets to the schedule as well as cancel them if necessary. Java also allows the coach to see if he has added a meet 2 times on the schedule so he can remove 1 of them. The reasons why I chose Java are:

- ❖ That is the language that I am learning in school
- ❖ Can easily be implemented into multiple platforms
- ❖ Very user friendly for people who do not have that much experience with code.
- ❖ The coach can easily make changes if he wants to do so
- ❖ Easy to use graphical interface with programs such as Java Swing

Stating Success Criteria:

- Program must have a homepage that has tabs that will take them to a page that contains
  - ○ All of the documents that need to filled out by the athletes
  - ○ Videos for getting better at track and field

- ○ Schedule of all of the meets
- ○ A page where athletes can sign up for their respective events
- ○ A page containing the results from prior meets
- The document page must contain pdfs of all of the documents needed to run track and field
- The video page needs to contain links to videos that help the athletes get faster.
  - ○ There must be videos for each event
- The schedule page must contain the dates for all of the meets as well as the time when it will happen. This page must also contain the state requirement times
- Another page where athletes can sign up for their respective events
  - ○ Each athlete can only sign up for a maximum of 4 events per 1 meet.
  - ○ There must be a difference between the varsity meets and the common meets
  - ○ Coach must have the power to remove names if he pleases so
  - ○ Only coach can sign up people for the varsity meets
  - ○ Boy events and girl events must be differentiable
- After the meet has been completed, a link with the results for the meet must be posted.

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