**Create New Meet**

User will enter information for a new meet. This will include the Date, Location, Weather conditions, and Boy/Girl Team Names. Once entered, the user will be asked to confirm the data.

**Enter Running Event Data**

The user will have the option to enter running data by heat #. The user will be presented the option to select how many runners are in the heat, and the proper number of boxes will be displayed based on that information. The user will have the opportunity to enter each runner’s name (textbox), school (combobox), and performance (textbox). The user must enter data for each in order for the program to accept the results. For the performance, the user may enter the data in minutes and seconds (Minutes:Seconds, 1:01), or just seconds (61). If the user enters performances out of order, they will be reordered accordingly. Users will be able to scroll through each heat by clicking arrows located at the bottom.

**Enter Throwing Event Data**

Similar to the Enter Running Event Data Use case. Users instead will be able to enter data by feet and inches (Feet-Inches, 18-3), or just inches (219). Data will not be organized by flight, as this has no bearing on scoring guidelines.

**Enter Relay Event Data**

Similar to Running Event Data, but data is separated by scoring teams and non-scoring teams. This way, non-scoring teams can have their performances stored, but won’t count towards point calculations. The user will have the option to enter names of the 4 members of the relay teams, but it will be optional. Data will also not be separated by heat, as this has no bearing on scoring guidelines, and would add confusion to the separation of scoring vs non-scoring teams.

**Retrieve Running Event Data**

Previous running event data must be retrieved for several uses. This includes editing previous data, checking scores, or creating print outs. This data must convert raw data (seconds) to formatted data (minutes:seconds).

**Retrieve Throwing Event Data**

Previous throwing event data must be retrieved for several uses. This includes editing previous data, checking scores, or creating print outs. This data must convert raw data (inches) to formatted data (feet-inches).

**Retrieve Relay Event Data**

Previous relay event data must be retrieved for several uses. This includes editing previous data, checking scores, or creating print outs. This data must convert raw data (seconds) to formatted data (minutes:seconds).

**Score Dual Meets**

In a contest that has more than 2 teams, each set of two teams needs scored as separate meets. Therefore, every set of teams needs scored for first, second, and third place. Current PIAA rules must be applied:

1. First place is awarded 5 points, second is awarded 3 points, third is awarded 1 point
2. Winning relay teams receive 5 points, loser receives 0
3. Ties can occur under certain circumstances:
   1. For track events, runners have the same time in separate heats (They cannot tie in the same heat)
   2. For field events, other than High Jump and Pole Vault, all 3 jumps/throws are the exact same.
   3. For High Jump and Pole Vault, all jumps/misses are the same
4. Ties are calculated by dividing evenly (2 firsts are award 4-4 respectively)

Each of the 18 events must be scored separately, then added together to come up with a total. There are rules in place for if 2 teams have the same number of points, but the program does not need to concern itself with that.

Manual Place High Jump & Pole Vault Places

Manual Override Places

**Save Meet**

All data from the meet must be saved. The data will include All Meet specific data, as well as all event performances. This will, at first, be done via File IO, but later a database will be used.

**Open Meet**

Saved meet data needs to be retrieved. The data will include All Meet specific data, as well as all event performances. This will, at first, be done via File IO, but later a database will be used.

**Create Individual Event .PDF Printout**

A PDF file will be generated that contains all names, teams, and performances for a particular event. These results will be listed in a table(s). Data will be ordered by performance, from best to worst. When applicable, the data will be separated by heat #

**Create Individual Event .docx Printout**

A .docx file will be generated that contains all names, teams, and performances for a particular event. These results will be listed in a table(s). Data will be ordered by performance, from best to worst. When applicable, the data will be separated by heat #

**Create Team Performance .PDF Printout**

A PDF file will be generated that contains all names and performance for every event competed by a particular team. Performances will be separated by event and will be listed in order of performance, from best to worst.

**Create Team Performance .docx Printout**

A .docx file will be generated that contains all names and performance for every event competed by a particular team. Performances will be separated by event and will be listed in order of performance, from best to worst.

**Create Meet Results .PDF printout**

A PDF file will be generated containing the breakdown of each individual meet. See Score Dual Meets Use Case for specific scoring guidelines. Each set of teams needs an individual page dedicated to that meet. Each event will be broken down to show how the points were awarded. This will include name, schools, and performance. Performances that are not good enough to earn points (ex: 5th place) will not show up on this sheet. Ties will be marked as such, with the word “TIE” in place of a name, and possibly the school. All data will be arranged in one really big table, with the exception of the total points, which will be shown separately at the top of the page.

**Create Meet Results .docx printout**

A .docx file will be generated containing the breakdown of each individual meet. See Score Dual Meets Use Case for specific scoring guidelines. Each set of teams needs an individual page dedicated to that meet. Each event will be broken down to show how the points were awarded. This will include name, schools, and performance. Performances that are not good enough to earn points (ex: 5th place) will not show up on this sheet. Ties will be marked as such, with the word “TIE” in place of a name, and possibly the school. All data will be arranged in one really big table, with the exception of the total points, which will be shown separately at the top of the page.