

Problem Statement

The ISP PE teacher has difficulties making calculations with the fitness scores of all her students, because she records these scores on paper.

Description of Scenario

Ms. Boughey is PE teacher at the International School of Prague where in PE class there is Track and Field focus every year. In this unit the students perform many different categories such as Ms. Boughey said, *“shotput, long jump, discuss, from all of the kids”* (Appendix 1, Q1) and are all recorded by the students on paper and then these results are written into the notebook of Ms. Boughey. Ms. Boughey teaches *“middle school classes, but I also teach 10th and 9th grade”* (Appendix 2, Q4) and she has many scores to keep track of. The system of keeping track of the scores on paper prevents the teacher for keeping the scores in a more long-term period.

Rationale for the proposed product

This digital program will be created to help the teacher store these scores in a more quick and easy way. I will be the programming language Java because that is the language taught at my school. Netbeans enables a GUI form, which is a simple window making easy and accessible for the user. The teacher will be able to store all their scores from the past, sort them and search through them. Then the program will easily and automatically find the best scores of each individual and calculate averages of each class.

Success Criteria for Product:¹

- User can input results of a student.
 - Information Includes:
 - Name
 - Grade
 - Year
 - Class
 - Categories of results
- Input boxes clear once results submitted
- Data input gets sent directly to result table in a time period of max 2 seconds
- Data gets sent straight to data table within a couple seconds
- Data table can be sorted and searched
 - Data table is sorted
 - by Class
 - by Year
 - by Date Input
 - Data table can be searched
 - Name of Student

¹ Appendix 2 – Interview 2

- Table with all the data can be saved to a file that stores all the results permanently
- Is easy to use
 - All input boxes are labeled and clear
 - Hover Boxes with examples
 - Example of past student
 - What unit of the input should be in
- Teacher can open old data to look at all the students in the past
 - Program creates a master file where all data gets saved to
- Program finds the best result for each category
- User find averages of scores for any chosen category
 - Different sorting of averages
 - By Class
 - By Year
- Loading speed is within a few seconds