Criterion A: Initial investigation

Problem Summary:

My client, Ms. Ayşin, is a psychological counselor in our school. When I asked her about the problems they faced while organizing our school's first profession seminars event, she explained the particularly time consuming process of assigning students to the seminars.

The interview was done in person with Ayşin --- about more details on the current situation on March 3th, 2018.

Inadequacies of the Current Situation:

This year was the first year that our school had done a profession seminar event. Professionals that are ranging from mathematicians to CEO's to doctors came to our school to give seminars about their jobs. To give the students the best experience possible, it was important that every student was able to attend the seminar they were most interested in Ms. Ayşin told me enthusiastically. So they made every student choose the top 10 seminars they wanted to attend for each time slot. Naturally they wanted to assign every student to their top choice, however as some professions were more popular than others, and "no person invited should be welcomed to an empty classroom to give a seminar" Ms. Ayşin explained, people had to be distributed in some way or another. This wasn't very easy to do, as there were 22222 students and 555 different seminars.

This year, Ms. Ayşin had a helpful group of students manually assign every student to the seminars. They used a simple excel sheet, but that wasn't very effective Ms. Ayşin told, and the whole process took the 3 students in the group 4 days, trying to finish in time.

Ms. Ayşin didn't have very specific needs for the solution. "Anything that I can use and could run on my computer is fine" she expressed after I told her I can do a computer application to automatically assign students.

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