**Criterion A: Planning**

**Defining the scenario:**

Miss Kata Szaraz, my client, is a German teacher, teaching students from 7th to 12th grade. The school consists of two parts, a Hungarian system school, and an IB school. Thus, there are separate sets of requirements she has to keep in mind while assessing students from each system. This is why she has asked me to create an application for her, which can hold her students from both school systems. The application I will create will need to contain only the requirements that apply to both systems. She would like to be able to make notes for each one of them, and keep track of their grades and overall progress. Furthermore, considering things like the fact that every year students advance a class, the fact that some students may change school systems, or the fact that a student may join or leave the class after the school year has began, the application will need to be flexible and updateable[[1]](#footnote-1).

My adviser will be Mister Andras Kemeny, who is my Computer Science teacher.

**Justification for the proposed product:**

A new system will be developed, because the client would want personal space for reference, before uploading anything to the official systems. For the development, I will combine four technologies: CSS, HTML, JavaScript and PHP. It is a web application, in order to foster accessibility (accessible from mobile phone, PC etc)[[2]](#footnote-2). With HTML I will create frontend features such as inputs, dropdown etc. Also, with CSS, I can improve the frontend features (e.g. give colors, create a consistent visual theme etc). The role of JavaScript will be both backend (set up event-listeners in order to achieve things through clicks, changing input values etc) and frontend (change cursor style etc). JQuery and AJAX will be used in some cases, in order to provide particular functionalities in a less complicated manner programming-wise. Moreover, I will store the data of each student in a MySQL database. For backend usage, I will use PHP, as it is a recognized, effective language, which I am also familiar with. With it, the application will have the ability to submit forms, connect to database and make changes when appropriate.

To write the code I will use Notepad++, since it is an application which can not only run code, but is also a handy notepad. I am also particularly familiar with, since I have used it in the past.

**Success Criteria (will be referred to as SC):**

1. The application will have to be responsive and adjust based on the device it is accessed from.
2. It will have to be private and only accessible by certain individuals.
3. It will have to have a certain visual theme.
4. It will have to have distinct sections, and the user will be able to navigate.
5. It will have to be easy to understand.
6. It will have to be flexible when it comes to searching students, so that the user will be able to make numerous combinations and find the respective students.
7. It will have to inform the user when they have made a change that has been saved.
8. It will have to inform the user when something goes wrong and specify what it was.
9. The user will have to have the ability to update existing records.
10. The user will have to have the ability to add relevant records.
11. The user will have to have the ability to remove irrelevant records.

**Criterion A word count:** 402 (excluding footnotes and SC)

1. Appendix 1 sums up all these requirements as requested by the client [↑](#footnote-ref-1)
2. Explained in Appendix 1 [↑](#footnote-ref-2)