**CRITERIA – A: PLANNING**

# The Scenario

The client I have chosen for this CS IA is my class teacher of the IB TOK Department of Christ Junior College Residential. He has been working in my college for about 4 years as one of the main class teachers for the IB department.

Every day, I see him enter our class, wish us, and then call each of our names to take our attendance. We would say present for ourselves and absent for the other students. He clearly hates doing this job of taking the attendance as he addresses it to me. Even though the job is small, he finds it very annoying and tiring especially in the long term.

He put forward his problem of the student attendance saying that it is always a headache to mark students whether they are present or absent and carrying the register around with him. He says also in the long term it is a bigger problem as at the end of every month, he has to input whatever he had marked down in the attendance register into the computer, and there he tends to make mistakes as well. Then he has to calculate how many times each student was present and how many times were they absent, and find out their attendance percentage, in order to determine whether the student has had an attendance percentage of 75% and above to consider the student eligible to promote to the next class at the end of the year.

Since I am a student of computer science, Mr. \_\_\_\_\_ has requested me to provide a technical solution in order to reduce this burden. He has requested me for a decent program or website which he can use with ease. This would help him maintain his records as well as calculate all the required results simultaneously.

**302 Words**

# Rationale

After spending 3 continuous hours with Mr. \_\_\_\_\_\_, I realized that the best solution would be to create a website which allows him to take the attendance and calculate all the required results simultaneously. Mr. \_\_\_\_\_\_ was pleased with the idea, and he urged me to create a website which looked ‘plain and simple’ to use without any fancy functionality which might cause him confusion. He just wanted a program where his only job was to click ‘present’ and ‘absent’.

I decided to create the website using **PHP (which is an OOP Language)** for dynamic webpage and the software to create the website will be done through **Adobe Dreamweaver** and **MySQL** for managing the data. My website takes control of the entire attendance system in the college. I strive to build extensive yet simple attendance management system for my professor that keeps track of how many days the student was present and how many days the student was absent and automatically calculate the present percentage. I will use MySQL through **phpMyAdmin**, where I will store the data and the records. The phpMyAdmin program is handy for performing maintenance operations on tables, backing up information, and editing things directly in the event. The relational database system will solve the data integrity and redundancy issues.

**213 Words**

# Success Criteria

1. The website will provide a login page which allows administrators to login to their accounts.
2. The website will provide a login page which allows teachers to login to their accounts.
3. A data entry form which will allow the new students to sign up.
4. A data entry form which will allow the teachers to sign up.
5. A data entry form which will allow administrators to sign up.
6. A data entry form which will allow administrators and teachers to change their passwords.
7. The website will provide a view page that will allow administrators and teachers to view different students.
8. The website will be able to search for students by their entered information.
9. A data entry form that will allow the administrator to delete students.
10. The website will allow you to take attendance of the students by clicking on either present or absent for the displayed students.
11. The login page will display a message if password or ID is wrong.
12. The website will display a message if the data entered in the registration page does not match the format required.
13. The website will display a message if there is one field in the registration page which hasn’t been filled.
14. The website will let you display the students’ entire info in a box along with their profile pictures.
15. The website always presents a reset button which will clear the entire data entered.
16. The website will allow you to view administrators as well as teachers.
17. The website will allow you to edit the information of students, teachers and admin.
18. The website displays different status for students depending on the criteria.
19. The website allows you to filter the displayed information of students, teachers, and admin.
20. The website allows you to see the present percentage and absent percentage, which is calculated automatically.
21. The registration forms will show only selections for states and gender.
22. The website has a ‘password’ and ‘confirm password’ functionality.

**Criteria A – 867 Words**