# **Criterion A- Planning**

**Intranet Application – IB Deadline and Event manager**

**Defining the problem:**

Kanthi Sri **(the client)** is the assistant coordinator at Johnson Grammar School ICSE, IBDP. Each year she creates timetables for students, schedule holidays and also assigns respective deadlines for students. The horror that approached Mrs. Kanthi during the summer vacations as she had assigned a deadline for the submission of Physics IA, it was brought to her attention that nobody has observed that deadline. She had expressed her need for an intranet application to ensure that teachers and students are **notified** when the respective **deadlines are passed**. This was the first time Mrs. Kanthi requested the possibility for creation of an Intranet application as it could potentially improve the submission of students IB coursework and simultaneously allow her send respective consent forms through the application.

The current system utilised is inefficient as her she claims ‘the current system used had an error with the management of submissions‘. She wastes valuable time on manual circulation of consent forms. She had mentioned it was very inefficient and a poor form of strategy as technology has advanced a lot, she had preferred an application that can simply send that manages of deadline submissions and school events and post time tables. I volunteered to develop an application using C# and ASP.NET.

My advisor will be my Computer Science teacher.

Word count: 233 words

**Rational for the proposed solution:**

I decided that using a dedicated programming language C# and ASP.NET would be the best solution for the problem instead of a website because the solution requires complex logic and fast automation.

I believe my solution is **affective** because through **C#,** I will be able to develop a “**user-friendly interface and a more organised application respective to the student’s subject stream**” **[[1]](#footnote-1)**. The aspect of the **end user,** more **interesting** and **efficient** for the end user to keep track of all pending deadlines and school events. **C#** is **platform independent**. I ‘am more familiar with coding in **C# and .NET Framework** as I have learned it in the past.In terms of development its ease of useas there is abundant number of library class functions it becomes easier to implement. C# provides access to **all NET Framework** class libraries which is extensive. The .NET Framework will be **efficient** and **effective** in my application because it has specific areas of application development such as **ASP.NET** for web applications which is beneficial for my application and client.

**.NET Framework** has the feature of **Multitargeting** which enables the application to run in **multiple platforms** that enables the application to run on Windows-10, Windows-7.

The **.NET** **Framework** provides a run-time environment referred as the Common Language Runtime **(CLR)** that allows code to run and make the development process easier. The application is benefited by a build with higher a secure build.

**Word count:** 246 words

**Success Criteria’s:**

1. **Admin** can add **students** and **teachers** to the application.
2. **Login screens for admin, students and teachers** are to be provided.
3. Timetable and list of holidays can be viewed by **all users**.
4. **Admin** can assign a teacher to the student and add an assignment to the student.
5. **Files provided by the admin and teachers** could be downloaded by students.
6. Teachers and admin **can upload supporting documents to the student.**
7. Students can **download** the documents provided by teachers and the admin.
8. **Proper validations for all forms**.
9. **Students** can check the deadlines and **upload their work.**
10. **Admin** can add a reminder message to the students on their pending deadlines.
11. **Teachers** can **edit** the deadlines.
12. **Admin** can generate a report whether or not students had submitted work.

1. *REFER TO THE APPENDIX A FOR THE FULL CONVERSATION* [↑](#footnote-ref-1)