**INTRODUCTION**

This last product development module utilized the information and practices from the previous semester, which was the conclusion of the previous semester's two and a half years of study. For instance, during my first year at the Foundation, software engineering taught me how to create schedules, test plans, wireframe design drawings, and data flow diagram. HTML, CSS and PHP was taught in my pervious semesters through which I was able to do assignments and some projects related to those programming languages. A product development module in third year module, to produce the final result for the client, all of the learned skills and knowledge are enhanced. This practitioner's statement outlines the many methods and software options available, the decision, and the justification for choosing them.

**Planning Documentation**

To complete the projects development project task is necessary to be enlisted. Different task are listed as main work, subdividing task, identifying the outcome of task and calculating the possible hour of time to be spent for each task. For creating schedule and Gantt chart I have used Microsoft word document because I have used them in previous similar projects and gained a lot of experience from it.

**Methodology**

To begin, it was necessary to analyze the project's work sequence in order to design a strategy for working on this project. This is known as the software development life cycle (SDLC for short). I have chosen an Agile Software Development Methodology because client involvement is given top attention throughout the whole development cycle according to the agile methodology. The goal is to include the client throughout the entire process so that they finish up with a satisfied product. Because the client evaluates and approves the product at every stage of development, this strategy helps the client save money and time. During development cycles, adjustments can be made to address any errors or problems. Because they do not test as frequently, traditional project management approaches would not identify errors as early. Errors that are not found at the various phases of development can typically (in conventional techniques of production) make their way into the finished product. This might lead to higher overhead costs and client dissatisfaction.

**Use of the Software**

Different software is required to execute the work that was scheduled to conclude the project. As I previously said, Microsoft word is used for schedule and Gantt chart. As Microsoft word is used for scheduling and Gantt chart more other software are required for completing project. First thing to do is to design wireframe of website. Many software and online website such as paint, visio, adobe illustrator, wireframe.cc etc. As a result, I used an online site to develop wireframes because it is quicker to use and all of the functions are already present.

Different software is available for coding, but I choose sublime text 3 since it has been used in previous projects, making it easy for me to use. All the functions are well known and files can be saved in appropriate formats (HTML, CSS, or PHP). Its relevant color coding of text suggestive of the programming language used makes it very easy to work with. I also used the bootstrap tool to layout the website because it makes coding and designing easier. After designing, I used XAMPP, a relational online database program, to connect the website to the database. To connect the webpage to the database, SQL scripts were built.

**System Testing**

When the system build is complete, you may begin the testing phase. Consider my previous module outcomes and my experience with them. We'll go over this in further detail in the report's Tests and Ratings section, but the last test strategy we used was a basic approach to running a website created in a web browser (in this case Google Chrome). Web server components include things like website functionalities and database connections (via XAMPP).

It then flows into a test table, where the test is separated into the functionality of each website to be tested. Each test describes the method to be tested, the input required to execute the method, the expected results, the status of the result, and any other notes regarding the tested method .For ease of use, the test table is saved in Microsoft word.

**Conclusion**

Finally, once you've chosen all of the techniques, software is required to manage any constraints or challenges that you may have discovered or may encounter while constructing the product. When creating a website using simple tools such as HTML, PHP, and CSS, you must be creative. If you host a prototype website and use the MySQL Database management system, the prototype website must still rely heavily on the above system's consistent reliability in order to function. Yes, web pages are hosted on the host system and may be viewed offline; nevertheless, you will still use these pages in the absence of a database connection or capability, such as if the XAMPP Apache server is unavailable.