5. Constraint

Firstly, one of the biggest constraint is set the correct time frame needed to meet the deadline since every member schedules to do their work differently. For example, one of the member might prefer to do their work at night. Meanwhile, another member might want to do their work in the afternoon. Also, even if the member scheduled a certain time to do their work, there may be circumstances where they might not be able to do it. For example, they might be sick. Furthermore, depending on the difficulty of the requirements, members might not have the technical required to develop the features on time. For example, advanced features such as maintaining user integrity.

Besides, assigning the correct resources depending on the requirement is very important. For example, the team leader has to ensure the he or she choose the right members based on their technical skills for the task that are suitable for them. Also, the team leader has to provide proper equipment such as laptop and facilities such as lab or classroom so that the members can work in a conducive environment. As a result, the members will be able to perform better.

Lastly, if our team were to use a prototype model to develop our hotel management software. This can affect our scope because we would have to listen to feedback from the lecturers or sponsor on how to better implement the functionalities. As a result, the scope will become much more in-depth and depending our technical skills, we might need more resources such as time and member to tackle each functionality. For example, the original plan was just to develop a check in system. However, the sponsor might want to have a feature to assign privileges for each role. By doing so, the team leader might need to assign more members to tackle this functionality since we have not developed this feature before.

6.

Firstly, the first software that we required is definitely Visual Studio because the software allows us to develop a website through the ASP.NET Framework and the language used is C#. For example, we could make use of Model-View-Controller MVC framework where the model is used to create the database, the view make use of Hypertext Mark-up Language (HTML) to design our interface and Controller which is used to write down functionalities.

Besides, after we have developed the hotel website, Visual Studio also allows us to deploy it onto a cloud services such as Azure. As a result, this makes it convenient to access the website online since it is uploaded on the cloud. However, if we did not upload it on the cloud, we would have to run the website on a private Internet Information Security (IIS) web server which is build temporarily to run the website.

Besides, Android Studio is another software that is required and we use it only if we got extra time to develop a hotel mobile application for it. Android studio makes use of languages such as Java, where this language is used to code the functionalities of the application. Also, Extensible Mark-up Language (XML) is used to develop the interface of the application. Furthermore, Android Studio allows us to deploy our application to the Play Store. As a result, this makes it easier for our customer to search and download our app.

On the other hand, for hardware we definitely would need a laptop in order for us to do our coding. Also, for the specifications of the laptops firstly, we would need a Central Processing Unit (CPU) that is at least i5 onwards because the software would require to load a lot of codes. As a result, we need a CPU to be able to process the data fast. Furthermore, the laptop requires at least 8 Gigabyte (GB) of Random Access Memory (RAM) because of software such as Android and Visual Studio that require intensive processing and this amount is sufficient for the laptop to continue to maintain its speed to perform other tasks. Lastly, the laptop would require at least 24GB of internal storage since the total size of the programs such as Visual and Android Studio is around 10GB.

**References**

<http://www.dummies.com/careers/project-management/project-management-how-to-define-project-constraints/>