**TASK 3.1P Report**

1. Problem Domain:

* A software for a pharmacy company
* Need a new software system to replace old paper-based system.
* Need to solve the lack of weekly and monthly sales record.
* Old system consumes lots of time and are insecure.

1. Solution domain:

* Design a computer-based system which help users (staffs, accountants, managers, etc.) add, edit or remove pharmacy items.
* Recorded items should be stored into a database (local or cloud database).
* At the end of each week and each month, the software will analyses sales data then generate records report.
* The software must implement Graphical User Interface (GUI) in order to help users easily interact with it functions.
* The software should give an option to generate reports in .CSV format and save them to local data storage.

1. Business knowledge

* Pharmacy stores normally opens until evening 7 days a week.
* The stores are often extremely busy at the weekend and after office hours, therefore, they may runs out of stock at those hours.
* There are a huge amount of different kinds of pharmacy items so the database should be big enough to be able to maintain the records.

1. Programming knowledge

* I have some experience working with web-based system (HTML, CSS, JavaScript).
* Learnt but never practised with web database (PHP and MySQL).
* Have no idea about the architecture of desktop-based databased system.

1. Solution

* Web-based pages should be able to offer necessary functions for the company and are also good at maintaining scalable database.
* Web-based application are small and required less time creating and testing before being demonstrated to our client.
* Moreover, we need a fast and can be widely-used so many branches of the company will be able to use it instantly without wasting time installing and learning how to use it.

1. High-Level Design Diagram

