

SWE30010 Development Project 2: Design, Planning and Management

Pass Task 3.1: Solution Direction and Design

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Tutorial time : Fri 2.30pm

1. Problem Domain :

- Pharmacy company needs a new software system to replace old paper-based system.
- New software to solve the lack of weekly and monthly sales records.
- Security problem with the old system.

2. Solution Domain :

- Design a computer-based system that allows users (company's employees) to add, edit and remove pharmacy items on the stock.
- Store recorded items into a database.
- Analyze and generate sales report at the end of each week and month.
- User-friendly graphic user interface for users to easily interact with the system's functions.
- Generate reports in .CSV format and store in database.

3. Business Knowledge :

- Pharmacy stores open until evening everyday.
- Stores are busy at the weekend or after business hour during week days so the stores may runs out of stock.
- Large range of pharmacy items so the database should be large as well to store all the items and maintain the records.

4. Programming Knowledge :

- Experience in programming web-based system (HTML, CSS, Javascript)
- Experience in programming database system (PHP and MySQL)
- Experience in programming computer-based system (C#, C++)

5. Solution :

- Web-based system will be able to provide necessary functions for the company.
- Web-based system is good at maintaining scalable database.
- Web-based system is quite easy to create, quick to test prototype before demonstrating to the clients.
- Web-based system can be used widely, saving time installing and reading instructions.

6. High-level Design Diagram :

