**Midterm Proposal**

Subject: Software Engineering

Class: Thursday Morning

**Project: Pharmacy Management**

**Topic: 1**

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**Members**

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# Introduction

Pharmacy Application is a software that manages medicine bills, invoices and generates reports by creating databases of available medicines in the shop. The data will connect to the main program by interconnection and database that is already created.

# Requirement

## Scope

* List of included functions
  + Input customer information
  + Get medicine from supplier
  + Verify login information, medicine
  + Check if medicine is empty or not
* List of excluded functions
  + Display medicine (medicine name, cost, sale price, quantity, brief information related to the medicine, medicine image)
  + Login/Logout
  + Edit medicine information
  + Display inventory record

## Benefits

* Provide a new way of selling medicine for staff
* The owner of the pharmacy will be able to see all operations (buying and selling, accounts, …) if he is outside the pharmacy or while traveling
* Easy to manage inventory record and accountant is not necessary
* Can manage whole inventory, medicine in the store and transaction invoice at any time

## Resource

* Human Resource:
  + Long – Developer
  + Duy – Tester, Software Architect
  + Bao – Designer, Business Analysis
* Material Resource
  + Software: Visual Studio Code, SQL Server,
  + Hardware: Smartphone, Laptop
  + Programming language: Dart
  + Framework: Flutter

## Risk and Alternative:

* Later than planned progress: specific schedule settings for each member.
* Lack of information: search and list everything related to the requirements of the topic.
* Run the program slowly: Test and run the application on many other laptops and phones, discuss and rewrite the processing algorithm if the program is still slow.
* Problem about connecting between database to program: learn again how to connect and consult with teachers if needed
* Broken hardware or software: Check, download again or buy new if necessary.

# Schedule

## Period 1(1 week): Brainstorming

* Analysis
  + Find requirements and information of topic
  + Explore include and exclude
* Design
  + Find appropriate theme for application
  + Get idea by observing other application
  + Database: ERD, relationship model

## Period 2(5 weeks): Programming

* Insert data into database, connect database, query database.
* Developing login, logout function.
* User Interface: Flutter framework.

## Period 3(2 weeks): Delivering

* Tester: run the program on phone or computer. If the risk occurs, conducting alternatives.
* Publish:
  + App store
  + Google Play
* Report:
  + Slide
  + Demo