# Purpose

The purpose of our project is to design an interactive webpage for doctors and patients alike. We aim to provide an E-commerce platform for doctors and patients to interact, make appointments, etc., and to be able purchase medicines and medical equipments. Such a platform can greatly increase communication efficiency of patients and doctors, reducing time consumed on medical needs.

# Use case diagram

[uc.drawio]

There are two actors: doctors and patients. A brief description of each use case is as follow:

* Make purchase: Doctors and patients are allowed to purchase medicine and medical equipments on the website.
* 1-on-1 chat: Doctors and patients can chat with each other through message forms. They can also send pending messages when either party is offline.
* Manage appointments: Patients can make appointments to doctors. Doctors can manage their own schedule, manage patient appointment timetable, etc.
* Prescribe medicine: Doctors can prescribe medicine for patients. Patients are not allowed to modify their prescription, but they are allowed to view and discuss with the doctor.

# Database design

Our database consists of several tables. The design is shown below

[printed\_db\_v2.pdf]

The database was designed on Microsoft MySQL Workbench on a MySQL database server. The database itself was generated using MySQL Workbench’s forward engineering.