**Assessment Details**

Functional

Students use Spring, Hibernate, and SpringMVC to build web services (necessary verbs to provide full CRUD) for a clinic management system with the following functionality:

No frontend functionality is required in this assignement.

1. Patient management:  
   Information of a patient includes id, name, birthdate, gender, address
2. Visit:

Each time patient comes to the clinic, info of the visit must be logged, including date, time.

When a patient sees a doctor, he/she will tell his/her problems (fever, headache etc). Often, a patient has more than 1 problem.

The doctor will diagnose the patient with a specific disease, using ICD code. Students download and import the following icd list to their database: <https://drive.google.com/open?id=1jhRP_bYBr50dOU4JDJLi7d0C3wLEpEMK>

The doctor will also give the patient a prescription

Information of a prescription includes drug name, quantity, dose (3 tablets per day.... ), how to use (after a meal...)

You need to have a list of drugs as well and provide web API for drug

1. Other API:

* There must API to find patients by name or id or birthdate
* There must be API to find visits by days, by patient
* There must be API to print the following reports:
  + report that counts the number of patient visits per day
  + report that counts drug prescribed

**Other requirements:**

* The design must be multi-tiers: persistence, store, services
* Deploy the API to cloud

Nonfunctional

* Code quality
* Logics of the system
* Polish the GUI and program flow

Rubric

* Total mark: 30
* Patient: 2
* Drug: 3
* Visit: 5
* Prescription: 5
* Other API: 10
* Non-functional: 5