**Assessment Details**

Functional

Students will work with their group to extend the Assignment 2 with the following additional requirements:

**Backend:**

1. ICD should be coded, i.e. there must be a table to store the list of ICD codes.
2. After an initial examination, if the doctor could not find the disease, he can order a lab test. A lab test order includes a wide range of medical services such as blood test, urine test, XRay, MRI, CT, ultrasound etc.   
   These services also need to be coded.
3. Every doctor should have an account to log in and see a list of visiting patients and to diagnose, prescribe and order lab test. Students must use SpringSecurity and OAuth2 to implement the authentication/authorization for this.

**Front-end:**

Students use any JS framework to build the front-end that uses all the API built in assignment 2 and assignment 3. For CSS, Bootstrap must be used.

**Other requirements:**

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