**Requirement Specification**

Python Application is built based on the business requirements that our team has been gathered from our client. This python application will simulate four main the processes in the hospital. Firstly, Trainees Perform Tasks. Secondly, Supervisors make assessment. Thirdly, Trainees see profile. Finally, Trainees share records. Our team has designed a security architecture which helps the application become more secure while performing each of the process. All of the technical details was documented in a folder called Business Analyse Process describing the security architecture of securing the application. Furthermore, this python application was built as API server. Every time a user is performing each of the process, there will be times that the data need to be encrypted and the user will invoke security modules hosted in the API server so that it will execute the encryption function and then return back the encrypted data to user.

Other than APIs server, our team also has applied blockchain technology in order to protect data especially trainee’s records and ensure the integrity and authenticity of a data. When data is stored on either a private or public blockchain ledger, data will be highly immutable and can assess if the information was tampered with or altered or faked at any given time. What’s more, there was also a website that was built using html/css/javscript, bootstrap, jquery connected with Smart Contract using web3js as the user interface to help user interact with blockchain easier