Design Rationale

Originally intended to use an adaptor to use Patient class inside the ObservableList, but Patient did not allow child classes to be compatible with requesting and parsing the server data through the hapi-fhir API so it was decided that a new cholesterolPatient class was to be made

* More lightweight
* Easier access to relevant information
* Compatible with TableView

Main Class:

This class extends the Application class in the library javafx. This enables it to launch the javafx application, and is given a stage to build the application from. This is essential for any application to

View classes:

There are several “View” classes present in the design, such as MonitorPatientsTableView and AddPatientsTableView. These are all children of the javaFX Pane class, as either a HBox or VBox. These view classes were designed with the Open-Closed principal, as they use inheritance to add functionality to the Pane classes, in order to add content to the container that the parent classes provide.

The requests class handles all of the network requests, and from this, all of the data obtaining for the application. In order to make the method of obtaining data independent from the

In the system, there are two PatientList classes. The parent class PatientList handles the basic adding and removing of patients to the system, and the two core attributes of the patient list and the patient getter. Following the open/closed principle, the parent class is open to modification through inheritance, where a child class can add the lower level functionality that is needed from the PatientList, for example, in the MonitoredPatient class, it extends functionality to be able to store and monitor the cholesterol for each of the patients, but still using the core functionality from the parent class. This will allow easy modification if for example, another statistic was needed to be added to the system.