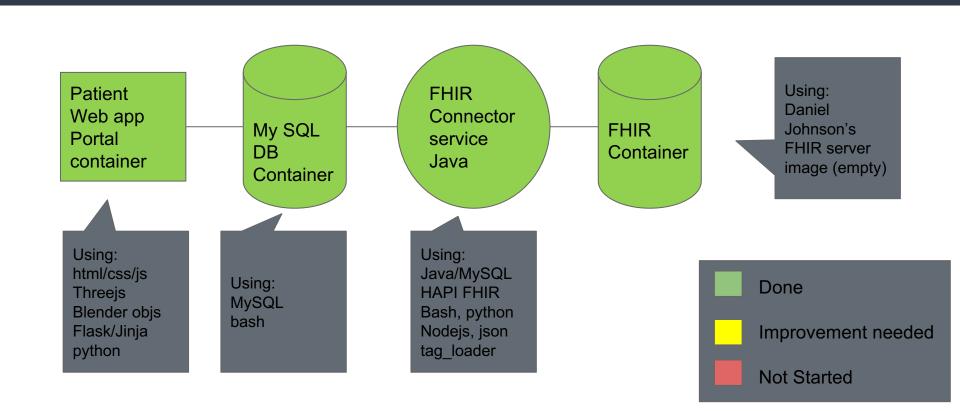
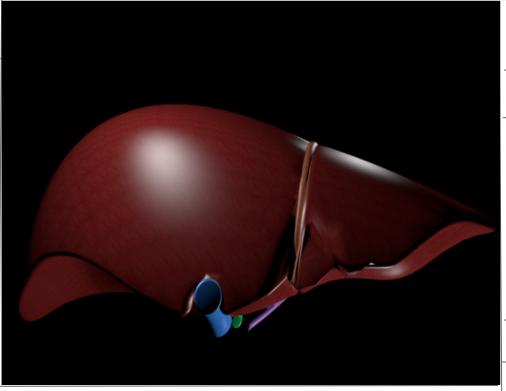
Architecture



Patients

Patient 1
Patient 2
Patient 3
Patient 4
Patient 5



Normal

Advanced Stage of Disease

Condition

Fatty Liver Disease

Description

Fatty liver is a reversible condition wherein large vacuoles of triglyceride fat accumulate in liver cells via the process of steatosis. Despite having multiple causes, fatty liver can be considered a single disease that occurs worldwide in those with excessive alcohol intake and the obese.

Causes

Symptoms

Treatments

Database Schema

Table: Disease Table: Patient Table: PatientID Id(PK) Id(PK) Id (PK) Patient snomed code(PK) Patient Id(PK) Patient Id(PK) Disease name Patient first name Disease overview Patient last name Disease symptoms Patient snomed code Disease treatment Patient diagnosis Disease risk factors Patient symptoms Disease complications Patient treatment Disease preventions Disease resources

Architecture

Overview

- On FHIR server startup, the server will be loaded with patients and condition information.
- On DB startup, the educational content and patient list will be loaded into the DB.
- On FHIR connector app startup, the app gets the patient list from the DB and uses it to get patients from the FHIR server. Then the connector app loads the patient data into the db.
- The web app interacts with the database only. It retrieves patient data and educational materials.

Languages: Python, Java, HTML/CSS/Javascript

Web App:

- Languages
 - Python, HTML/CSS/Javascript.
- Tools
 - Flask/Jinja web page templating framework
 - o 3d Modeling Three.js, blender

Database: MySQL

FHIR Connector service

- Java on Ubuntu
- HAPI APIs

FHIR Server: Instantiate Daniel's image and pre-populate it.