**Team Name:** FHIR Power
**Team Members:** Joel Henry, Jeff Mals, Wei Lv, Violette Ogega, Dennis Lynch
**Project Name:** Streaming-Sepsis-Prediction-System-for-Intensive-Care-Units
**Github Link:** https://github.gatech.edu/gt-hit-fall2017/Streaming-Sepsis-Prediction-System-for-Intensive-Care-Units
**Commit id: 4fb51e289375ed5d4caa7e21728b1e0e805fd23e**

**To Run the Application:**

- Install Docker and Docker Compose. Instructions on installing these components, if necessary, can be found at https://docs.docker.com/compose/install/#prerequisites
- Clone the Sepsis Predictor repository: **git clone https://github.gatech.edu/gt-hit-fall2017/Streaming-Sepsis-Prediction-System-for-Intensive-Care-Units.git**
- Switch into the project directory
- Build and start the docker container for the project:
    - For ubuntu and linux machines: **sudo docker-compose up --build**
    - For other distributions (e.g. Windows): **docker-compose up --build**
- Open up a browser, and navigate to localhost:8000/SepsisPredictor

**Notes:**

Per mentor instructions, the goal of this application was to utilize a provided sepsis prediction library running on the MATLAB runtime. However, due to filesize restrictions imposed by github, neither the unzipped runtime files nor the zipped directory could be uploaded for a subsequent clone and run. Additionally, the download time for the full MATLAB runtime on the included docker container was roughly 70 minutes long. For this reason, for the purposes of testing the application as a whole, a demonstration sepsis scorer was included in the repo to allow the application to run successfully.

Additionally, an outstanding bug with the SMART on FHIR python client required additional modification to the source code on local development environments. Because of this, the fhirclient library was included in the github repository with the modifications included. The included repository was based off of the fhirclient version 1.0.6, found at https://github.com/smart-on-fhir/client-py/releases/tag/FHIR-1.6.0 .