

FHIR and Cerner

In the project I used Smart on FHIR in the context of launching a full stack application onto a Cerner sandbox. In the demonstration picture below we can see that an API call was made to a FHIR server and then a response was sent about our specific patient of inquiry regarding a patient resource. Medication list is a type of patient resource in FHIR and we can see from the demonstration below that our retrieval of patient medications was indeed a success. Furthermore we were also able to retrieve the hypothetical patient's vitals from their most recent doctor's visit. Because it is assumed the doctor used EPIC we are able to see how FHIR servers play an integral role in managing and creating universal standards for medical data.

The screenshot shows a web application interface for a patient named TIMMY SMART1, Gender: male, DOB: 2012-02-19. The interface is displayed in a Chrome browser window with the URL `shawntestfhir.herokuapp.com/app/dashboard`. The dashboard features four vital sign cards, each with a red circular icon containing a white '100' and a 'Date Recorded' field.

- Respiratory Rate:** 15 br/min, Date Recorded: 2021-07-16T20:21:40.000Z
- HR:** 70 bpm, Date Recorded: 2021-07-09T14:20:06.000Z
- Weight:** 50 kg, Date Recorded: 2022-06-28T07:15:00.000Z
- SP02:** no entires, Date Recorded:

Below the vital signs is an 'ADD NEW VITALS' button. A table displays vital signs data:

Vital Sign	Result	Date ↓
Peripheral Pulse Rate	70bpm	09/07/2021

Below the table is a 'Medication Name' table with columns for 'Medication Name', 'Active Status', and 'Date Prescribed':

Medication Name	Active Status	Date Prescribed
acetaminophen	active	02/10/2020
acetaminophen	active	14/12/2021

The browser's address bar shows the URL `shawntestfhir.herokuapp.com/app/dashboard`. The macOS dock at the bottom contains various application icons, including Finder, Safari, and the Cerner application.