# Practicum Sprint #5: Status Check-In #3

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#### 1 ACCOMPLISHMENTS

## 1.1 Develop code to obtain socioeconomic factors

I now have code to obtain the socioeconomic factors of a given patient. Instead of using ClarityNLP, I decided to use given associated FHIR components.

# 1.2 Develop user interface

In the case of missing information regarding the socioeconomic factors, the user (provider) can select or type in relevant information as shown in Figure 1.

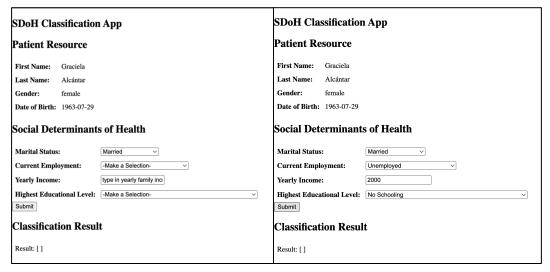


Figure 1 — (Left) the app automatically obtains social determinants of health if present in the patient's medical records; in this case, only the marital status of the patient was available. (Right) the user can type in or select relevant information to run the classification.

## 1.3 Develop a sample classification model

Using Python and a sample dataset (of about 500 generated records), I have trained a sample classification model that classifies a given patient's social determinants of health.

## 2 CHALLENGES

The final step of the project is to connect the Python-developed classification model to the app that runs based on Javascript so that the user can access the classification model from the app.

While I have been told that it is doable by use of resources like FastAPI or Flask, I am not familiar with these. I need to learn to use either resource to finalize this project.

## **3 SPRINT PLANS**

With only one week remaining, my plan is as follows:

- Monday, Tuesday
  - o Learn to use Flask or FastAPI
  - o Make it so that the application can access the classification model
  - o Finalize the codes to complete a functional application
- Wednesday, Thursday
  - o Communicate with the mentor on final deliverables
  - o Start working on final documents
- Friday, Saturday, Sunday
  - o Finalize the documents
  - Submit the deliverables