

## Problem

- A record high number of Coronavirus cases are being tested positive, overloading the healthcare capacity. As a result, new measures are being engineered better optimize the flow of patients in all areas of medicine.
- Due to the high number of tests being done, a scarcity of Coronavirus tests followed. A way to counteract this scarcity, a doctor's prescription must be officially acquired to get the more accurate tests (such as the PCR tests). Most modern clinical laboratories in Puerto Rico are adequately suited in the software department to handle these types of demands and government mandates.
- The most common software used to manage and organize appointments in clinical laboratories, made by TekPro Inc., is severely barebones compared to software in other fields.

## Target

The project's goal is to create an online platform that will allow clinical laboratory patients to create appointments and enter vital information (such as doctor's prescription, healthcare plans, personal information) in order to connect to the HIPAA complaint system/database. This platform should be able to log all of the patients details and what type of tests the patient needs while also verifying their eligibility for the tests. After the tests are done, the result will be sent in the patient's preferred way (secure/encrypted email, through the same platform, text message, other). This will help further flatten the demand curve for the healthcare system capacity by significantly optimizing how that part of the medical industry operates.

## Cause

