

RRP Website:

Critical Products	
Gowns and Coveralls	40,522,595 available
Respirators	22,189,173 available
Surface Wipes	20,649,731 available
Face Shields	16,535,736 available
Hand Sanitizer	11,173,897 L available

Result:

Critical Products	
Name	Availability
Surgical & Reusable Masks	377,064,163 available
Disposable Gloves	47,461,093 available
Gowns and Coveralls	40,522,595 available
Respirators	22,189,173 available
Surface Wipes	20,649,731 available
Face Shields	16,535,736 available
Hand Sanitizer	11,153,898 L available
Thermometers	8,457,998 available
Testing Kits	2,110,815 available

## **To run the code:**

- 1- Download the chrome driver
- 2- Install selenium library for web scraping
- 3- Run the python script
- 4- Install Laravel, mongodb php driver
- 5- Type php artisan serve in the command line

## **Requirements:**

- Php 7.4
- Laravel 8.0
- Mongodb 1.8

## **My work description:**

The python scripts perform the web scraping task then connect to mongodb and update the database. The php application load the data from the database on mongodb and load it on an html page.

For web scraping I used the selenium library. I chose selenium over scrapy and BeautifulSoup, because BeautifulSoup is mainly for static websites and scrapy is designed for bigger data, so I found that selenium would be good for the goal of this task.

I created a new dataset on Mongodb and made the connection in the python script then I uploaded the crawled data on the new dataset.

For the php application, the main changes can be found in the following files:

- Routes/web.php
- Resources/views/loader\_blade.php
- Controllers/mongodbController.php

The route sends the request to the controller. mongodbController receives the request, processes it and connects to the database. Then it sends the

data to the viewer. Finally, the loader\_blade viewer receives the data and presents it in the html table shown on the first page.