Weather Dishes
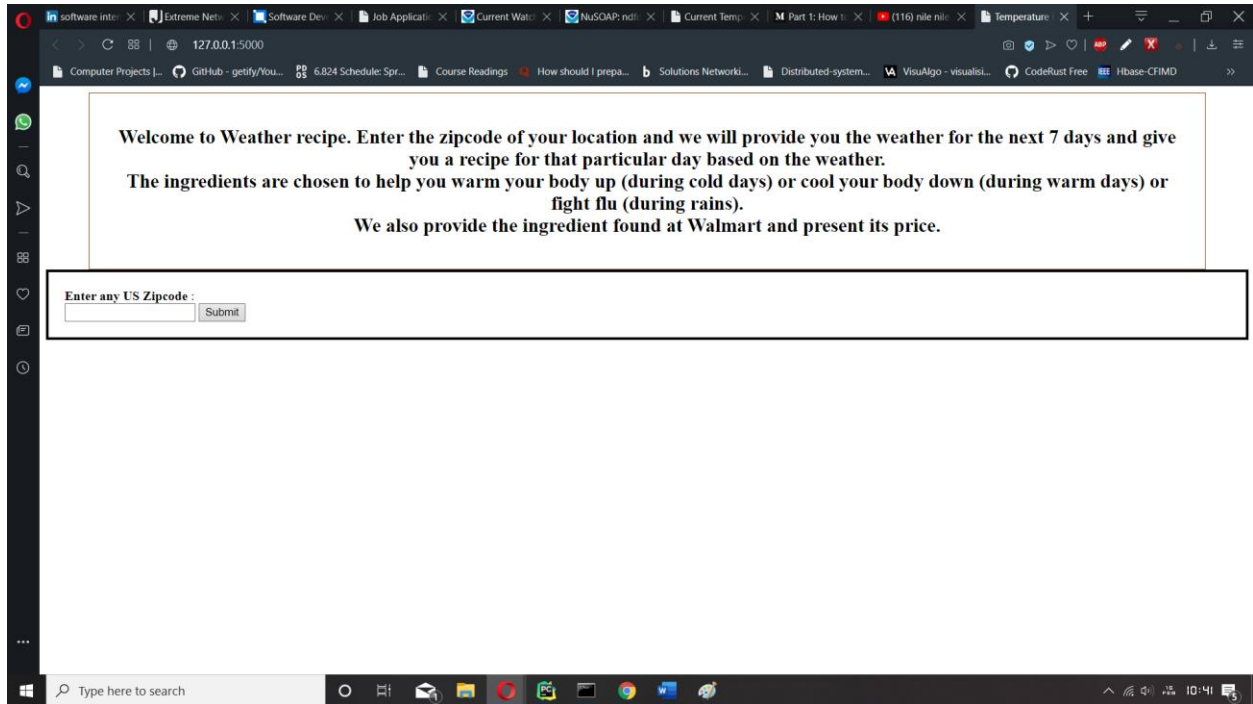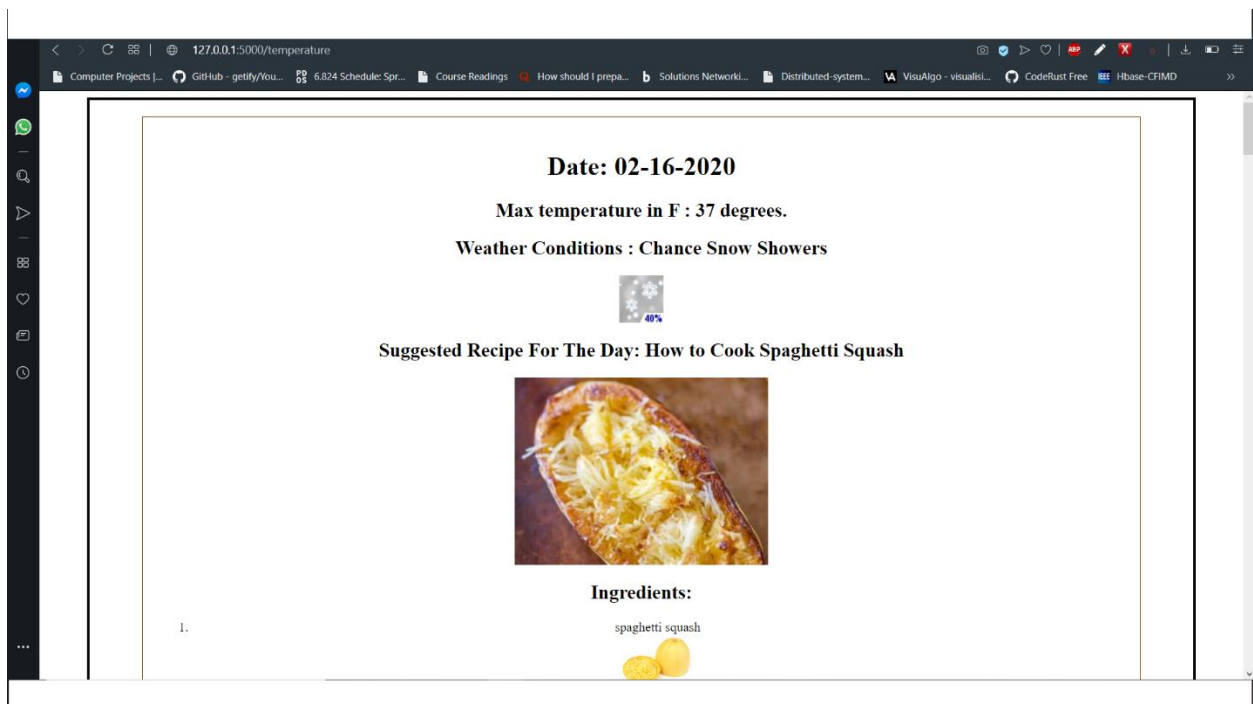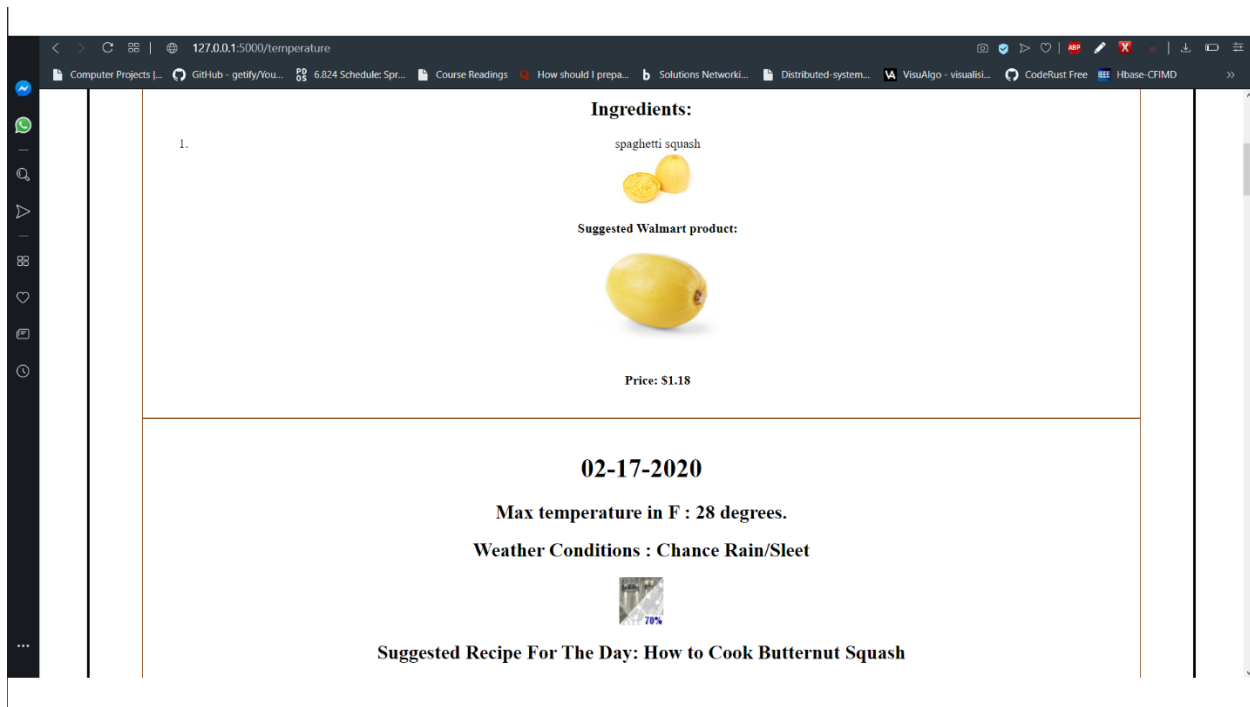

Enter the US zip code for the location as shown in the screen shot above.

This will return the following information.

Ingredients:

1.

spaghetti squash

Suggested Walmart product:

Price: $1.18

02-17-2020

Max temperature in F : 28 degrees.

Weather Conditions : Chance Rain/Sleet

70%

Suggested Recipe For The Day: How to Cook Butternut Squash

The above two screen shots are a representation of the information one would get for a day. The application presents information for 7 days (from now). It provides the maximum temperature in Fahrenheit and based on the temperature it presents dishes. These dishes are catered to help you warm your body up (during cold days), cool your body down (during hot days) or fight flu (rainy days).

The zip code is taken by the application and contacts the SOAP server (graphical.weather.gov), this website uses SOAP protocol to provide information about the weather at a location. Once the user inputs the zipcode, the client contacts the server with the zipcode to retrieve the latitude and longitude of the zipcode. This is done through the service LatLonListZipCode.

Once the latitude and longitude are presented, we then call the same server to provide the predicted weather conditions at the location for the next 7 days. This done through the service NDFDgenByDay.

Once the weather is retrieved, we process the information and decide if the day is hot, cold or rainy. We then use a list of food items, that are beneficial to humans on a hot or cold or rainy day, and send it to the next API called spoonacular. This api takes an ingredient and returns dishes that can be made using the same. Once we get a list of all the ingredients for the dish, we send a request to Walmart API to retrieve the product and its price.

We then proceed to display all the information chosen as dishes and ingredients for all 7 days.