Name: Lotanna Francis Onyekwelu

Matric no: 18/ENG05/052

Department: Mechatronics Engineering

 COMPUTER PROGRAMMING ASSIGNMENT

Design of application following the software development cycle.

This project was made due to the ongoing pandemic that has struck our world and all of humanity. As a means to keep track and curb the spread of this virus, as instructed by our multi-national health company, I have designed an application that will enable us to detect, display the rate of infection, manage its spread and access these data via the web.

This application will run a symptom algorithm check which will be able to narrow down the likelihood of one being affected by the virus or not based of the specific data imputed into the app, eg last countries visited, if you’ve been observing social distancing, if you’re having related symptoms, loss of breath, fever, sour throat ect.

This will produce result showing if one is most likely to be infected and most likely not to be. It would have a web access to WHO (world Health Organization) which would help to display and access the data globally.

Hardware and software features

Using javascript to enable application specific methods, client-side scripting was used to add functionality and to create an app that does not require excessive page reloading. Asp.net was used to coordinate client-side scripting with server-side technologies.

The hardware features include: a scanner, transmission cable, a router, processor, storage memory for the data.

Algorithm

P = Most likely to be positive (mltbp)

O = Most likely to be negative (mltbn)

1. Start
2. Read P, O, Y
3. If y = p

Print ‘positive’

Else if y = O

Print ‘negative’

1. Stop

FLOW CHART

START

READY

IF Y = P

FALSE TRUE

END

PRINT NEGATIVE

PRINT POSITIVE

Using top-down design approach of the application

DISPLAY

COMPARE DATA

DETECT

SCAN

DISEASE