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**THE DESIGN OF Application Using Software Development Cycle**

Designing a web based specific covid-19 application that can detect, display, rate(degree of infection), store, transmit data obtained wirelessly and access the data via web together with other features which could be implemented. The application is to provide most fastest ways of sensing and changing the scale of infection.

Given the basic features the app needs to possess, we take down the application improvement, i.e. web application functionality that will enable users create account, input, change, and recover password; this gives privacy to the user’s result processed by the application. After this we consider the delineation of the web app. We will look at this under the delineation; labeling, direction finding, buttons and other communication element. We will also consider how the application will function and observations will be taken. And also taking consideration on the working direction of the application which may include; how users register, the platform in which the user’s health result will be send to, how users route the application etc. the was prepared with positioned standards to regulate the severity of user’s condition. The positioned standard will be compared with the users input value. An air sample and the CAT scan to determine the users condition at stage 1,2,3, and 4. A test automation specialist ensured that the system worked as intended.

**SOFTWARE AND HARDWARE FEATURES OF THE APPLICATION**

* Hardware features

1. Scanner: To enable the application get information from the user
2. Processor: To help in the efficiency of the application
3. Data transmission cable: to help in the transmission of data

* Software features;

1. Web application frame work: used for the application framework.
2. Web browser: sends information to the web content technology
3. JavaScript: To enable application-specific methods such as access to keyboard and mouse.

**ALGORITHM:**

1. START
2. READ USER ID
3. READ 1,2,3,4 // INITIALIZED REFERENCE VALUES = P
4. STORE 1,2,3 ,4 IN P
5. READ AIR SAMPLE = Z
6. READ CAT SCAN RESULTS = CAT
7. STORE S,CAT IN V //USER’S INPUT VALUES = V
8. IF V=P
9. PRINT “POSITIVE”
10. ELSE
11. PRINT “NEGATIVE”
12. WHILE V=P
13. IF V=1
14. PRINT “POSITIVE, STAGE 1”
15. IF V=2

16. PRINT “POSITIVE, STAGE 2”

17. IF V=3

1. PRINT “POSITIVE, STAGE 3”
2. IF V=4
3. PRINT “POSITIVE, STAGE 4”
4. END

**FLOWCHART AND ALFGORITHM**

APP WEBSITE

SIGN UP

FIRST TIME USERS

FALSE

TRUE

SET 1,2,3 &4 IN SYSTEM P

LOGIN

READ

USER’S

AIR

SAMPLE

=

S

READ USER’S

CAT SCAN

RESULTS = CAT

STORE INPUT VALUES

‘CAT’, ‘S’ IN DATABASE ‘V’

TRUE

TRUE

FALSE

FALSE

TRUE

FALSE

TRUE

FALSE

TRUE

FALSE

VALUES (R)

V = P

PRINT

NEGATIVE

V = 1

V = 2

V = 3

V = 4

PRINT

POSITIVE,

STAGE ‘1’

PRINT

POSITIVE,

STAGE ‘2’

PRINT

POSITIVE,

STAGE ‘3’

PRINT

POSITIVE,

STAGE ‘4’

END

AIR SAMPLE

1, 2, 3, 4

**TOP**

**TOP**

**-**

**DOWN DESIGN APPROACH:**

WEB

APPLICATION

DATABASE

STORING

ISTANDARD

VALUES = P

DATABASE

SAVING USER’S

INPUTED VALUES

V

=

DATABASE

STORING USER

ID

PASSWORD

USERNAME

CAT SCAN

RESULTS

AIR

SAMPLE

B

C

D