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Electrical/Electronics
18/ENG04/054
Structured computer Programming

Development Cycle;

1. Planning;

To build an application that can detect, display, Store, transmit data obtained wirelessly , access the data via the web and periodically synchronize with the values stored with the world health organization

2. Product design ;

The application will be scale-able hence it will be able to be used on devices ranging from desktops to phones

It will be cross platformed to be able to run on Windows, Mac OS , Android etc

It will be cloud hosted

3. Coding

4. Implementation and Integration

Traditional and SPA behaviors supported.

5. Software Testing;

6. Easily tested with automated tests

7. Installation and Maintenance

Features

The software will sign in the users personal information firstly then take the user through a survey to determine if the user is positive or not.

The web app will be built primarily with Java Script.

The application will periodically update the local registry and daily update the registry contained with the world health organization.

Display a list of the current amount of infected patients in the records already present.

It will feature a very interactive UI. The application will have about 5 servers to increase performance and stability and also in the case that one of them were to crash the others would immediately take over.

It will allow the programmer to periodically release updates.

It will posses JSP,SEVERLET and EJB features.

During the initial signing in there will be a prompt to take a picture of the user and also record a thumb print.

There will be firmware integration

Algorithm

Step 1 : Start

Step 2 : Read int T , BP

Step 3 : Get values

Step 4 : Read Temperature==T

 If $T > 37$

 Print Temperature high, Symptom of Covid-19

 Else

 Print Temperature normal, no symptom of Covid-19

 Read Blood Pressure==BP

 If $BP > 75$

 Print BP too high , Symptom of Covid-19

 Else

 Print BP normal , no symptom of Covid-19

Step 5:Print Have you been experiencing Loss of breath?

Step 6:Read Char a

Step 7: Read answer==a

 If a==Yes

 Print Symptom of Covid-19

 Else

 Print no Symptom of Covid-19

Step 8:Print Have you been experiencing any unusual headaches/ Fever?

 If a==Yes

 Print Symptom of Covid-19

Else

Print no Symptom

Step 9 : if symptoms ≥ 3 Print You are positive of Covid-19 , Proceed to the nearest clinic

Step 10 : Store the current information in the local registry with the others obtained in the database

Step 11 : Every 24hours transmit the data stored to the registry held by the world health organization

Step 12 : Display the information obtained when prompted

Step 13 : Stop









