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18/ENG07/023
Petroleum Engineering

CODE

```
var person= prompt("please input name", "harry potter")
var age=prompt("input age", 22)
if(age>=60 && age!=null){
   age="are at a higer risk "
}
else if(age==null ||age=="") {

 var age= prompt("please insert a valid age");
}
else{age = "are at low risk")
var country=prompt("enter your country of residence", "USA")
var state=prompt("Enter your state of residence","OKLAHOMA")
var gender=prompt("enter your gender","male or female")
if(gender=="male" ||gender=="Male" ||gender == "MALE"){
  var gender="Mr"
}
else if(gender=="female" ||gender=="Female" ||gender=="FEMALE"){
 var  gender="Mrs"
}
else{prompt("please input a valid gender")}
var eff=prompt("do you experience sore throat","yes or no")
if (eff=="yes" ||"Yes" ||"YES"){
```

```
    eff=true
}
else if (eff=="no" ||eff=="NO" ||eff=="No") {eff=false}
var efft =prompt("ARE YOU EXPERIENCING COUGH");
if (efft=="yes" ||"Yes" ||"YES"){
    efft=true
}
else if (efft=="no" ||efft=="NO" ||efft=="No") {efft=false}
else{prompt("input valid answer")}
var effect ="";
if (eff&&efft==true){
    var effect="severe symptoms of corons virus"
}
else{
    var effect="mild symptoms of corona virus"
}
var temp=prompt("input temperature reading")
if (temp>37){
    var temp="signs of fever"
}
else{var temp=""}
var pres=prompt("input blood pressure",120/80)
if (pres>125/79){
    var pres="high blood pressure"
}
else {var pres="normal blood pressure"}
if(pres>125/79 && effect==true && temp>37)
{
    alert("From samples and information collected "+gender+person+"you have COVID-19 virus")
}
else{alert("COVID-19 VIRUS not present")}
document.write("<`®+ Wlo<Â`®"+gender+person+"<`®Eo-xResults<Â`®" )
document.write("BLOOD PRESSURE:"+pres+"<Â®")
document.write("SYMPTOMS: "+effect+"<Â ; >")
```

Using the software development cycle the program was created

Conceptualization: the project to create a system that detects, display, rate, store and transmit data to a data base via a web based application

Specifications: the project will need a storage database to store and collect information at will; a suitable programming software(GUI) ; sound knowledge on the sign, symptoms and causes of specific viruses.

Design: the designing of the program will take the use of the programming languages; HTML, JavaScript, css, and also SQL for the storage on database

Implementation:

Steps

- *Firstly the structure of the application will be created using HTML*
- *The design layout of the application will be done using CSS*
- *The interface of the program will be made using JavaScript*
- *The data received will be processed and stpred in the database with the help of SQL*

TESTING AND DEBUGGING

The initial tests will begin on the program, although the program not complete it will undergo numerous tests and will be debugged

RELEASE OF THE SOFTWARE

Although the official release date of the program is 12-april-2020. The date can be further moved aback in case of any unwanted delays in the software development

cycle.

HARDWARE FEATURES

The hardware components of the home testing kits involve a thermometer with an inbuilt transducer to easily rely data from the component to the program; a blood pressure testing machine for testing the blood pressure and heart rate of the patient; cotton swab for insertion into the nose; machine to perform molecular tests to ascertain for the presence of the virus from the cotton swab sample by creating a polymerized chain reaction (PCR) to test for the presence of the virus; A computer processor for the interpretation, and processing of data samples; storage, both internal and external storage for the formation of a database for future use

SOFTWARE FEATURES

The need for Graphical user interface(GUI), Character user interface(CUI), programming software, extensions and data structures.

ALGORITHM

1. Start
2. Read temperature
3. Read symptoms
4. Read var z
5. Input result
6. For temperature >=° ′

   Temperature=}x~W

   Else temperature=]IiyW
7. If symptoms==§Wj then symptoms=}x~W

Else symptoms=]IiyW

8. For (temperature&&symptoms=}x-W

(var z="severe")

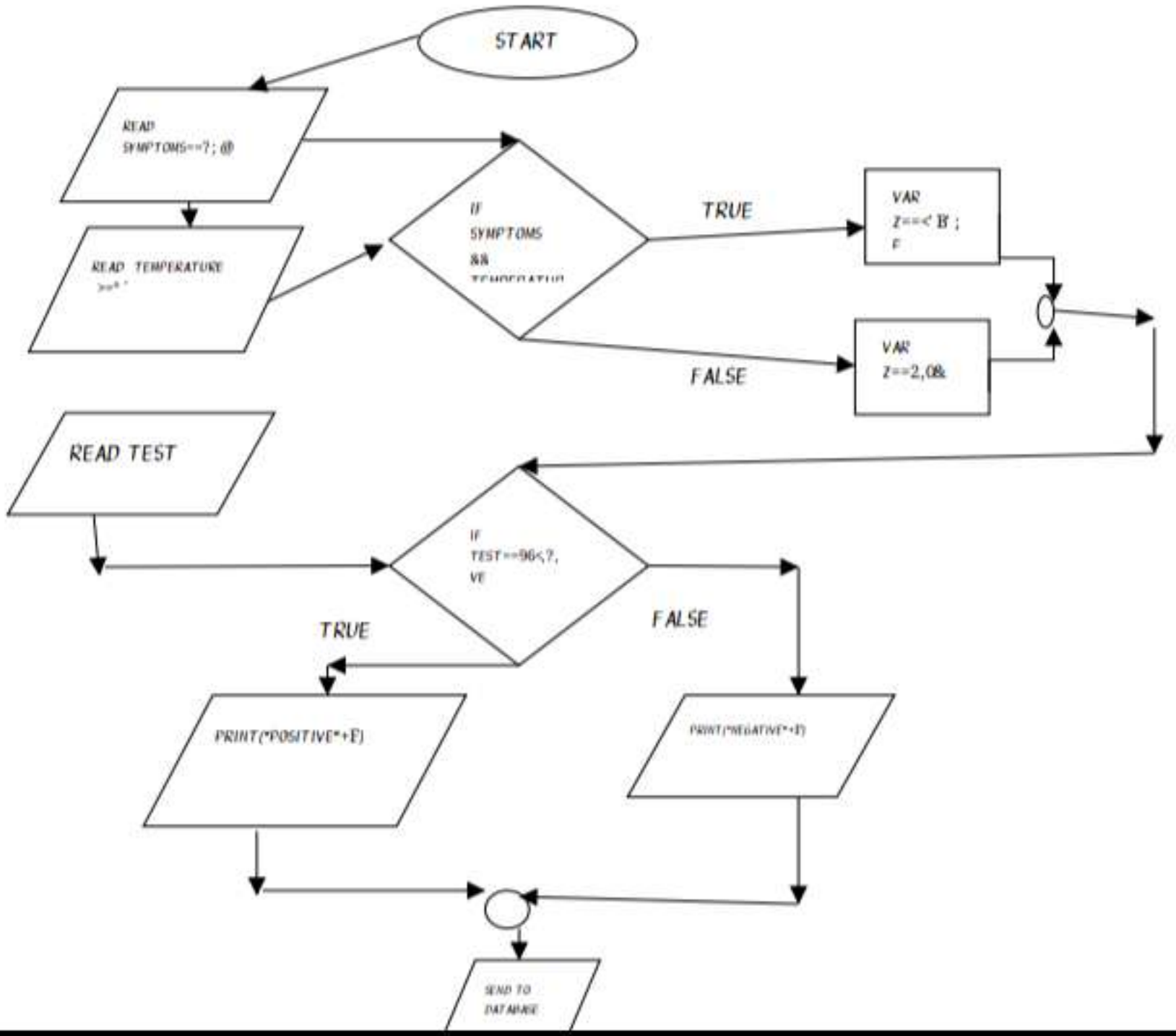
Else (var z="mild")

9. for result==voya-Wprintf("patient is positive with"+[a]+"symptoms")}

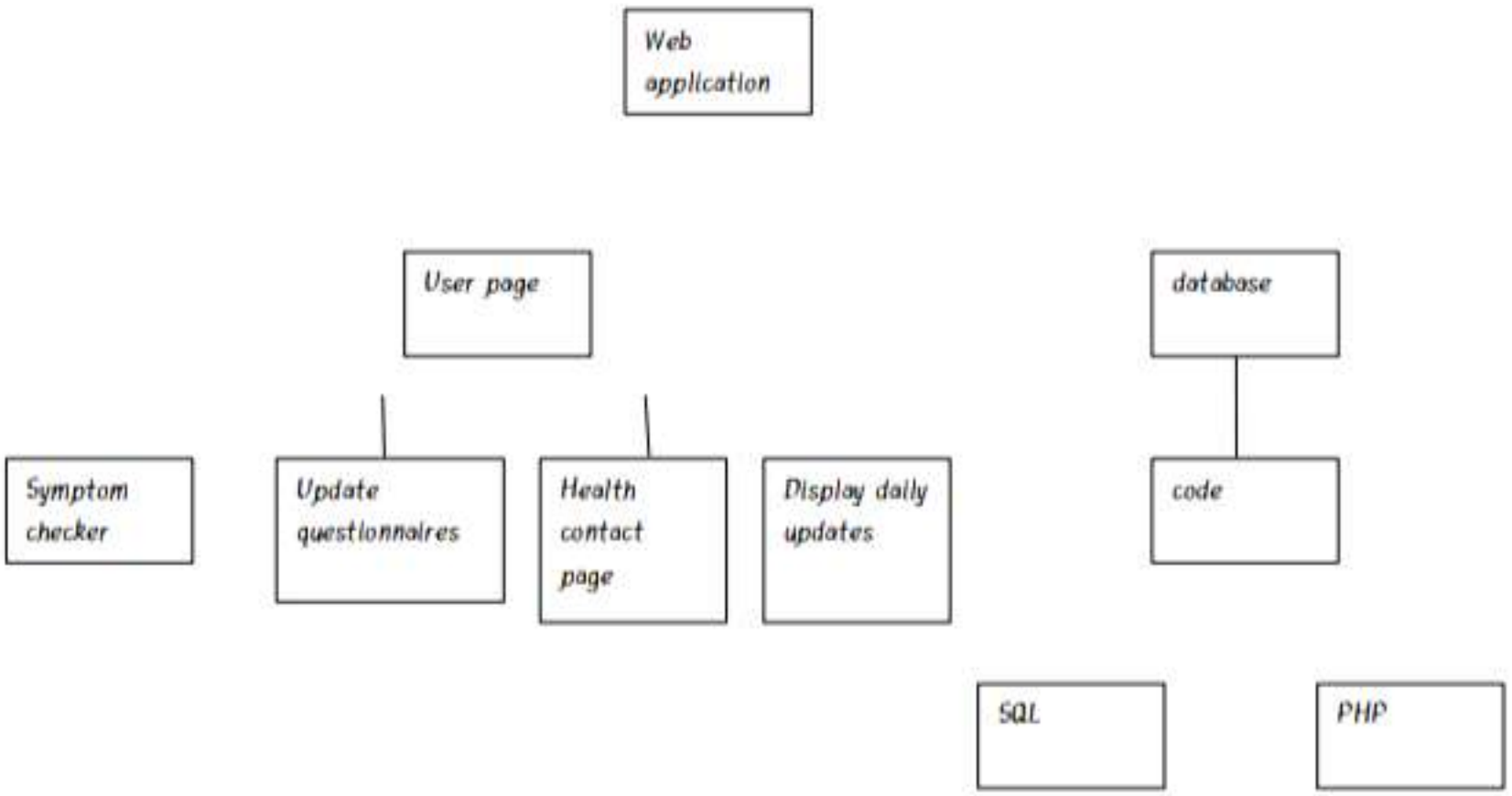
else(printf("patient is negative with"+[a]"symptoms")

10. end

FLOW CHART



TOP-DOWN


Web application
User page
database
Symptom checker
Update questionnaires
Health contact page
Display daily updates
code
SQL
PHP