

ELEGBE CALEB OSIGBODI

18/ENG02/038

COMPUTER ENGINEERING

ENG 224

1. Conceptualization:

This is a web-based application that carries out trials, discovers, stores, computes and transmits information on **COVID-19.**

2. Specification:

The modus of the program are:

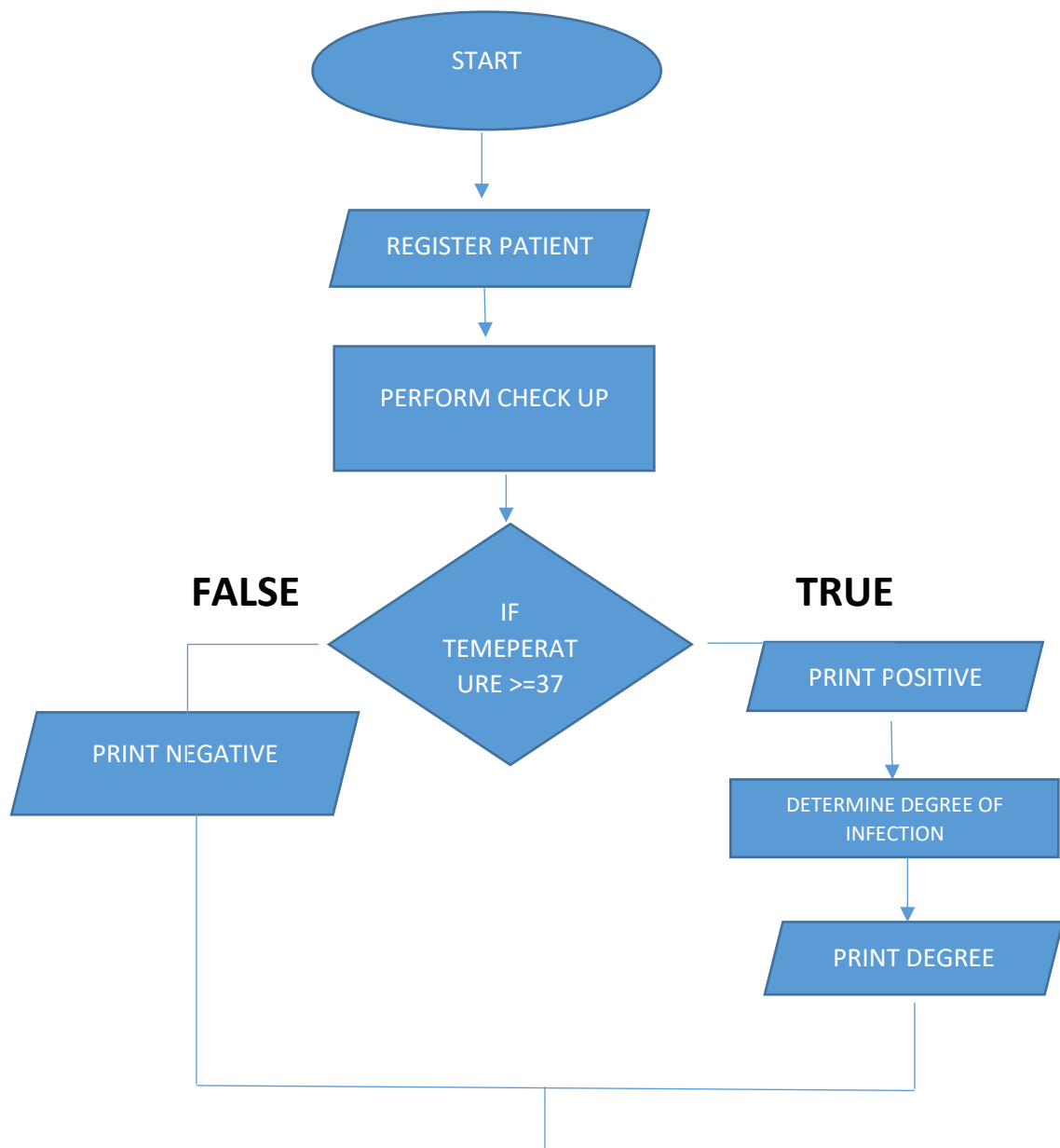
- i. Trials
- ii. Detection
- iii. Display degree of infection
- iv. Store data received
Transmit data received

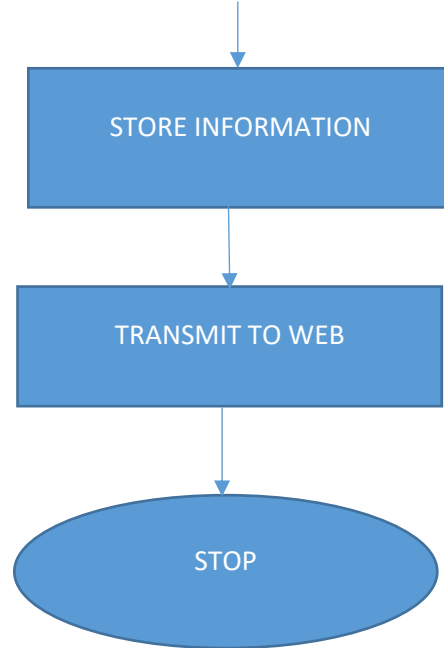
3. Design:

- i. Algorithm:
 1. Start
 2. Register patient
 3. Perform check up

4. If temperature ≥ 37
5. Print Positive
Display degree of infection
Else
Print Negative
6. Store data on server
7. Transmit to web
8. Stop

Flow Chart:





4. The program is written in a high level language including the necessary features
5. A dry run is carried out to know the state of the program and bugs are removed.
6. The program is released to all health organisations worldwide. It is updated based on new discoveries about **COVID-19**.

2. The program has both hardware and software features;

The hardware include the clinical equipment, computer equipment and network servers

Software include **COVID-19** detection system, storage system and transmitting system.

The process begins with the patient getting to any testing station to test for **COVID-19**.

The patient registers into the computer system,

After which the patient is put through a series of tests to confirm if infection has occurred (a function of the clinical equipment).

If positive the system will detect and determine the degree of infection (hardware and software work hand in hand).

There after the results are stored and transmitted through signals to the web (servers).

The information is made available to medical practioners and experts for further analysis.

3.

ii. Algorithm:

6. Start

7. Register patient

8. Perform check up

9. If temperature ≥ 37

10. Print Positive

Display degree of infection

Else

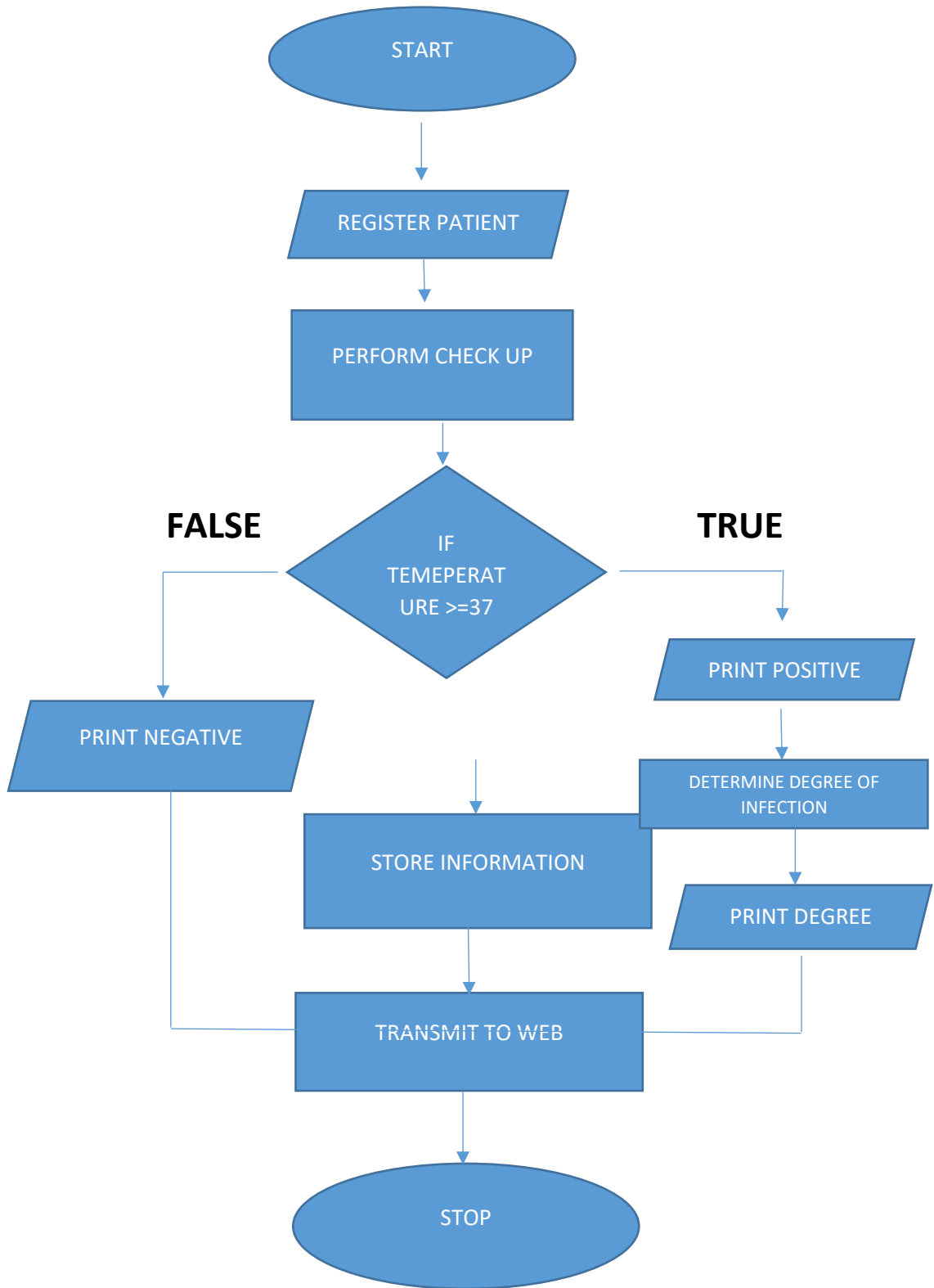
Print Negative

6. Store data on server

7. Transmit to web

8. Stop

Flow Chart:



COVID-19 Detection System

