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18/ENG02/008

COMPUTER ENGINEERING

ENG 224 ASSIGNMENT

1. Conceptualization:

This is a web-based application that tests, notices, reserves, and pass on information on Covid-19.

2. Specification:

The modus of the program are:

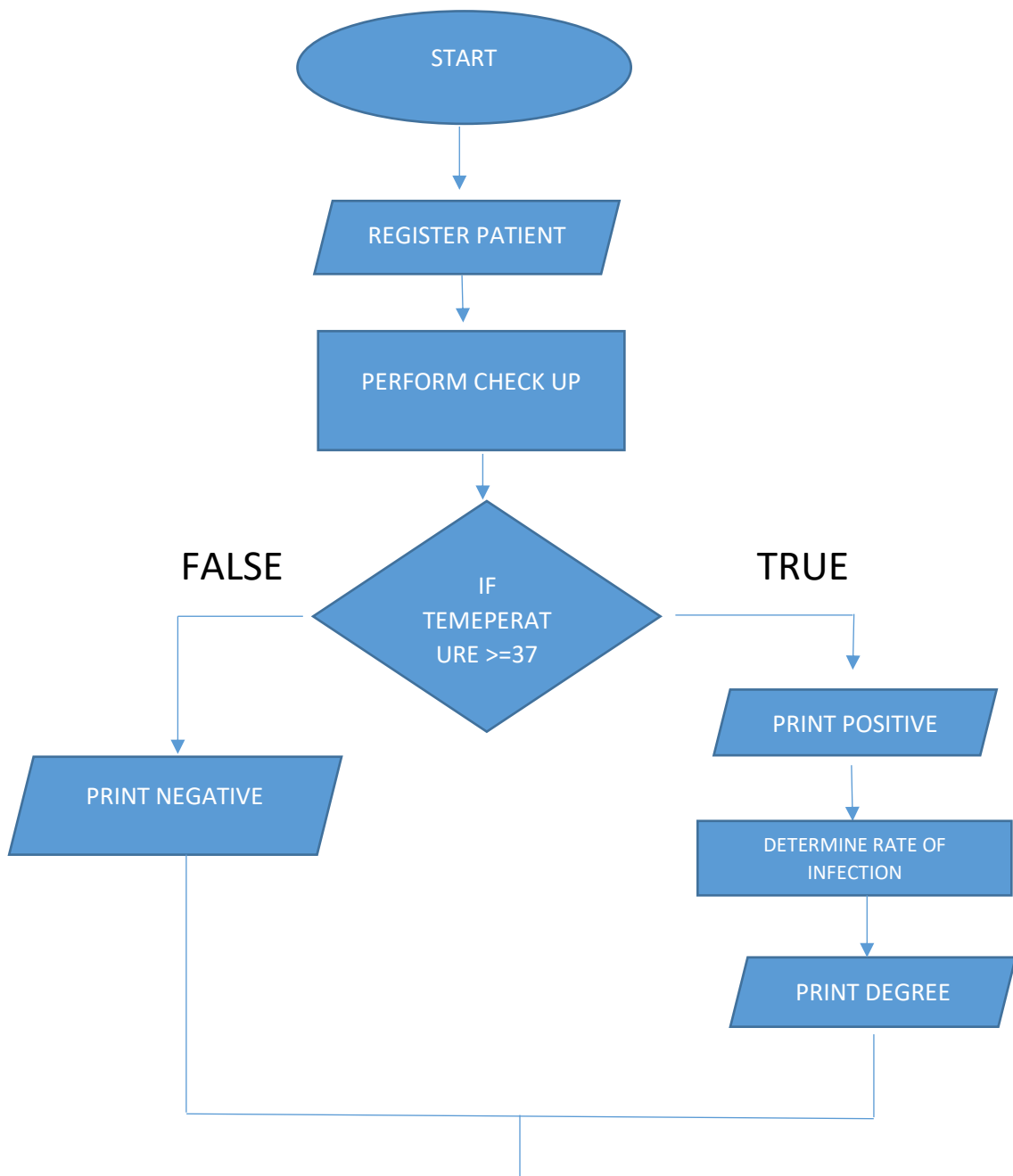
- i. Trial
- ii. Notice
- iii. Show rate of infection
- iv. Reserves data received
- v. Pass on data received

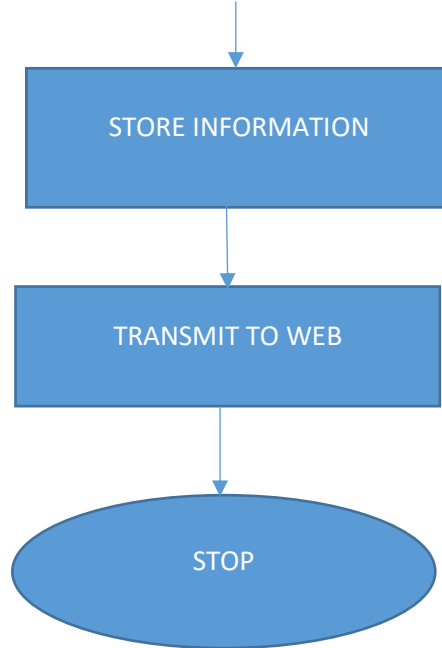
3. Design:

- i. Algorithm:
 - 1 Start
 - 2 Register patient
 - 3 Perform check up
 - 4 If temperature ≥ 37

- 5 Print Positive
Show Rate of infection
Else
Print Negative
6. Reserve data on server
7. Pass on to web
8. Stop

Flow Chart:





4. The program is written in a high level language as well as the necessary features
5. A dry run is carried out to know the condition of the program and errors are removed.
6. The program is liberate to all health organisations globally. It is apprise based on new discoveries about Covid-19.

2. The program has hardware and software features;

The hardware include the medical 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 system (computer systems)

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).

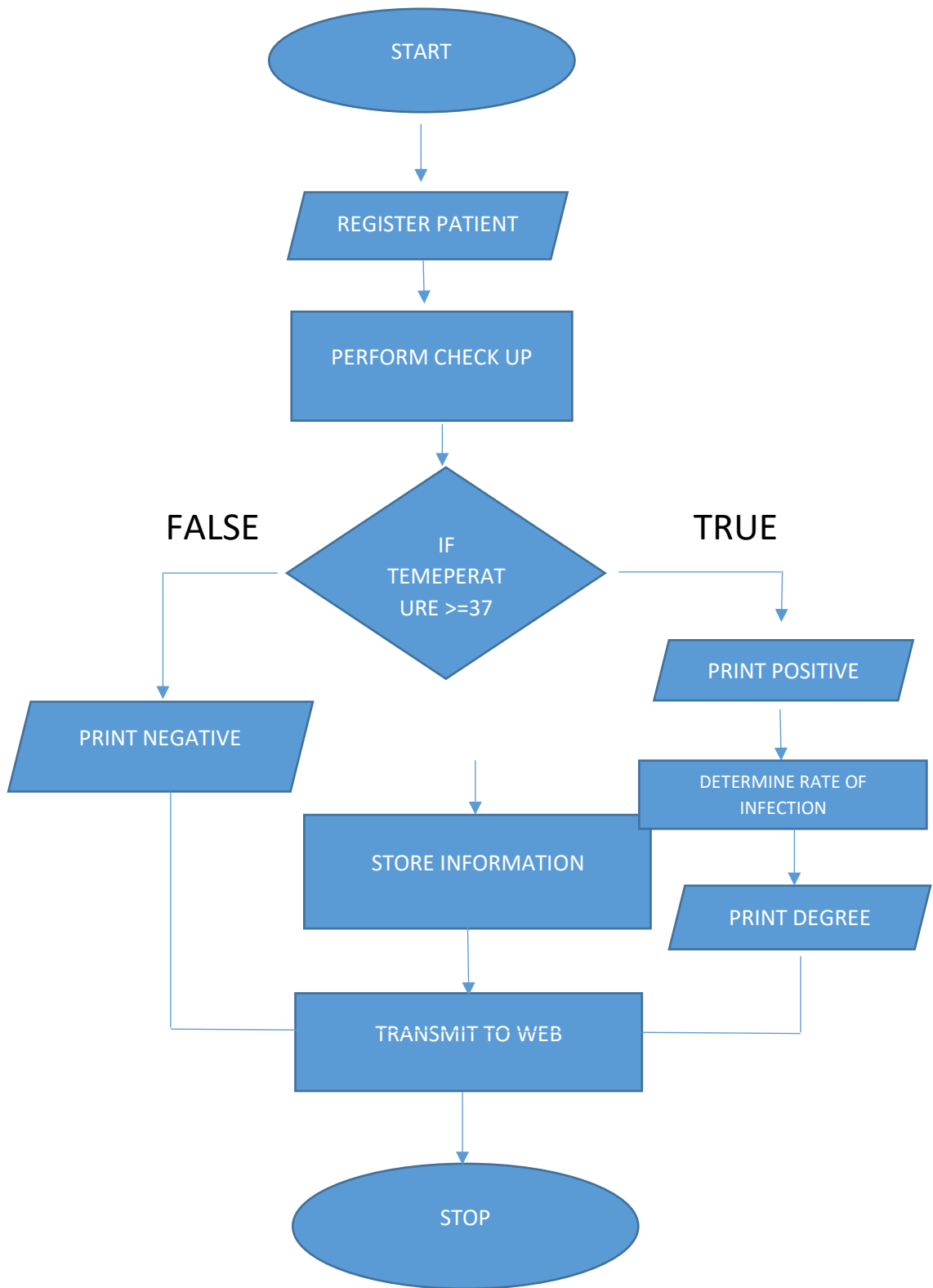
The information is made available to medical practioners and experts for analysis.

3.

ii. Algorithm:

- 6 Start
- 7 Register patient
- 8 Perform check up
- 9 If temperature ≥ 37
- 10 Print Positive
- Display Rate of infection
- Else
- Print Negative
6. Store data on server
7. Transmit to web
8. Stop

Flow Chart:



Covi-19 Detection System

