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MATRIC NUMBER: 18/ENG02/054

COURSE CODE: ENG 224 (STRUCTURED COMPUTER PROGRAMMING COMPUTER )

**ANSWERS TO ASSIGNMENT**

Specification

Design

Conceptualization

Implementation

Testing and debugging

Release and update

2a. HARDWARE:

1. Working Laptops: the web app will be compatible with the laptops.
2. Screening devices: the screening device(s) is to determine if a patient has Covid-19.
3. Web cam devices: to identify the patients on their physical appearance.

2b. Software

1. The software could be able to save the patient’s details, rate the patient, display the patient’s details, transmit data obtained wirelessly and detect a critical patient.
2. The software would be able to distinguish the critical from the non-critical patients.

3i. FLOWCHART

Select the negative option

If patient is positive?

Register and take sample slot of patient

Check the patient if positive/negative

Screen patient

No

Select the positive option

Yes

Display patients result

Save patients details

3ii. Algorithm

Step 1: start

Step 2: register and take snapshot of the patient

Step 3: screen the patient

Step 4: check the patient if positive or negative

Step 5: if patient is positive, select the positive option

Step 6: if patient is negative, select the negative option

Step 7: save patient’s details

Step 8: click on display to view patient’s result

Step 9: stop

Features completed and sent to board of directors

Development of features

Development of the web application features

Feed back from the board of directors

4. Bottom up approach