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DEPARTMENT: BIOMEDICAL ENGINEERING

COURSE TITLE: STRUCTURED COMPUTER PROGRAMMING

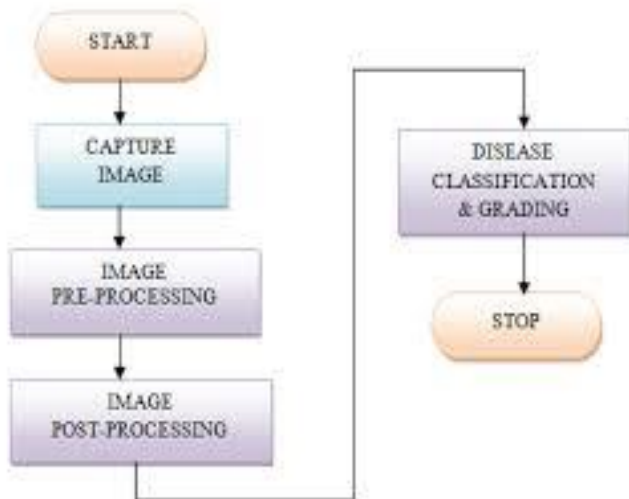
COURSE CODE: ENG224

The COVID-19 pandemic is causing a lot of death in countries. The coronavirus is Coronavirus disease 2019 (COVID-19) is defined as illness caused by a novel coronavirus now called severe acute respiratory syndrome.

The COVID-19 Tracker is a web-based application that can detect, display, rate, store, transmit data obtained wirelessly and access data via the web. The COVID-19 Tracker is going to be able to detect the Virus by the use of an external finger print which would tell the symptoms the person is experiencing and also a facial scan for temperature detection.

Using the Software Development Cycle, I'm going to design the app step by step.

- **Requirement gathering and analysis:** Once I get the issue the problem can be resolved, the application I will create will be able to detect if anyone has the symptoms of the virus and the camera of the device in use will be used to scan and detect for body abnormalities.
- **Design:**



- **Implementation or coding:** I will use the algorithm I created from design that is acting as the input.
- **Testing:** My developed code is tested thoroughly to detect the defects in my application. Defects are logged into the defect tracking tool and is retested once fixed.
- **Deployment:** The developed code is moved into production after testing

HARDWARE

Real Temperature: It is a temperature monitoring program designed for the computer that can measure the individual temperature VIA a facial image capture.

Monitor: It displays the result on the screen

Cotton swab: It is a long replaceable cotton bud like tester used to get mucous from the inner region of the throat.

Router: A networking device that will forward data packets between computer networks.

SOFTWARE

Appointment system

Laboratory test conductor

Consultancy System

MY ALGORITHM AND FLOW CHART WAS INSERTED AS A PICTURE BECAUSE IT WAS DONE ON MY PHONE AND EDITED ON IT SO I JUST SAVED IT AS AN IMAGE.



- STEP 1;** Start
- STEP 2;** Register patient
- STEP 3;** Perform check up
- STEP 4;** If temperature ≥ 37
- STEP 5;** Print Positive
- Display Rate of infection
- Else
- Print Negative
- STEP 6;** Store data on server
- STEP 7;** Transmit to web
- STEP 8;** Stop

Flow Chart:

