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18/ENG06/012

MECHANICAL ENGINEERING

ENG 224 (BASIC COMPUTER PROGRAMMING)

NUMBER 1

SOFTWARE DEVELOPMENT CYCLE

1. PLANNING: The application is designed to create awareness concerning the virus across countries. Its aim is to give data concerning the amount of deaths, the number of quarantined patients, the number of cases found across the state. The application would also detect if a person is positive or negative using a scanner created in the section of the app.
2. ANALYSIS: COVID-19 virus has killed a lot of people around the world. It has caused a lot of fear to people across the world. Every day people die due to the corona virus which caused schools to shut down and restricted movements.
3. DESIGN: A web based app that allows all hospitals authorised by WHO to access and upload data on it after testing and treating patients
4. DEVELOPMENT/IMPLEMENTATION: The users will be classified into three; the administration (hospitals):testing, observation, isolation, The patients, Medical laboratory database for patients.
5. TESTING: COVID-19 check (this will refer patients to testing centres) which allows them schedule test for COVID-19 based on questionaries relating to symptoms.
6. MAINTENANCE: Progress charts, security checks for all classes of users.

NUMBER 2

* THE HARDWARE FEATURES: Hardware features affects software designs and transportability, processing efficiency, I/O procedures, and display capabilities. This features present complex problems for data users because of the variety of difficult computers. Although hardware characteristics are primarily ADP related, discipline issues such as data storage and processing accuracy may be affected as well.
* THE SOFTWARE FEATURES:
* Centralized file storage
* Document lifecycle controls and audit trials
* Find vital documents faster
* Distribute information faster
* Simple to use
* Information sharing and collaboration
* Task coordination

NUMBER 3

* ALGORITHM:

STEP 1: Collect blood sample

STEP 2: Perform test

STEP 3: Patient test positive or negative

STEP 4: If positive, gets isolated

STEP 5: If negative, gets free to go and stays safe

* FLOWCHART:

END

ISOLATION

FREE TO SO AND SOCIAL DISTANCE

NEGATIVE

POSITIVE

PATIENT GETS TESTED FOR COVID-19

START

NUMBER 4

* TOP-DOWN APPROACH:

PLANNING

ANALYSIS

DESIGN

TESTING

DEVLOPMENT/IMPLEMENTATION

MAINTENANCE

* BOTTOM-UP APPROACH:

MAINTENANCE

TESTING

DEVELOPMENT/IMPLEMENTATION

DESIGN

ANALYSIS

PLANNING