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MECHATRONICS ENGINEERING

EN16 224

## SOFTWARE DEVELOPMENT CYCLE

### CONCEPTUALIZATION

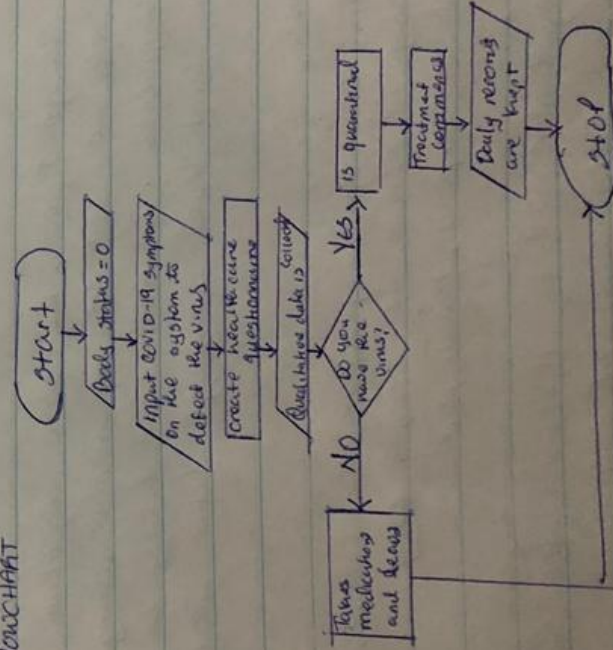
A web-based application that provides online testing of COVID-19, that is easily accessible to anyone and transmits the data to any approval health organization to help in furthering research for vaccines.

### SPECIFICATION

In designing a health web-based application, we consider the priority of users when it comes to personal doctor. We also ensure that the application is easily accessible and user-friendly. Daily feedbacks and reports based on the reported data can be gotten.

### DESIGN

### FLOWCHART



## ALGORITHM

STEP 1: Body status to the virus = 0  
2: Input COVID-19 symptoms in the system

STEP 1: Start

2: Body status to the virus = 0  
3: Input COVID-19 symptoms in the system  
4: Put the software required  
5: Create a questionnaire  
6: Collect qualitative data  
7: Analyze data  
8: IF body status to the virus = positive  
9: Display emergency contact/procedures  
10: ELSE  
11: Body status to the virus = negative  
12: Display feedback  
13: STOP.

## IMPLEMENTATION

In this software development process, the above algorithm for the application software will be implemented using various programming languages. It will most likely be implemented using a high level language like JAVA, C++, PYTHON etc.

## TESTING AND DEBUGGING

This is when the errors commonly referred to as bugs, are checked by testing it at various stages using diagnostic tools such as step in, break point

## RELEASE AND UPDATE

The web-based application will be released for the people's use with actual data and up occasional updates

Testing & Debugging

## TOP DOWN DESIGN APPROACH OF THE APPLICATION

