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## USING THE SOFTWARE DEVELOPMENT CYCLE

### DEFINING THE PROJECT SCOPE :

This application is tasked with the detection, display , calculation of the degree infection in the world, storing and transmitting this data gotten wirelessly , which can be accessed through the web.

### FEASIBILITY ANALISIS :

Since the application is projected at being a web based application web developers are necessary, both frontend and backend web developers are needed to design the website which the application is been accessed through and also the database where all the data is being stored. A software developer is tasked with creating an application that would retrieve the mortality rate of the virus (numbers of people infected, the numbers of people dead and the numbers of people that recovered) in every country which has recorded any case.

### SOFTWARE DESIGN :

The front end web developer makes use of HTML5 to create the website and the back end developer would make use of PHP to create the data base for the website. The software Developer would make the application that would fetch the data ( number of people infected, number of people who have died of the virus and the number of people who have recovered from the virus in different countries around the world) from the WHO (World Health Organization) database. The software developer and the back end developer would work hand in hand in organising and managing the data that has been gotten by the software developer and stored in the database of the web application.

### CODING :

In this stage the developers begin the writing of their codes. The web developers including the frontend and the backend developers start writing their codes, the front end designs the web based application and the backend developer designs the database of for the web base application while the software developer creates the application that would scrape the necessary information from the WHO database.

The front end developer would use : HTML5 code

The backend developer would use : PHP code

The software developer would use : PYTHON OR JAVA OR C# code

### TESTING :

This is the debugging stage of this project. The website has been designed to perform its desired functions, the database has also been designed to store its data and the application has been created to continuously read information from the WHO database and also to write the data read into the web base application's database, i.e the data stored in the database of the web base application is rewritten whenever there's a change in the numbers of cases , number of deaths and the number of recoveries for every country with cases in the WHO database. The code is been tested for bugs until it performs its duties efficiently .

### INSTALLATION / DEPLOYMENT :

In this project the application is web based so it doesn't require any installation. Web based applications act as regular websites with more functions that can be performed

so it has to be treated as a regular website , therefore the application has to be hosted.

### STEPS FOR HOSTING A WEB BASED APPLICATION

- Choose your hosting server
- Select your web hosting plan
- Change your DNS address
- Upload your website

### MAINTENANCE :

Once the application is being sent off to the internet ,and has started to being used by customers, bugs would be found and updates would take place.

### HARDWARE FEATURES FOR THIS PROJECT :

This project didn't involve a lot of hardware devices just a computer system that can produce the output needed

### SOFTWARE FEATURES FOR THIS PROJECT :

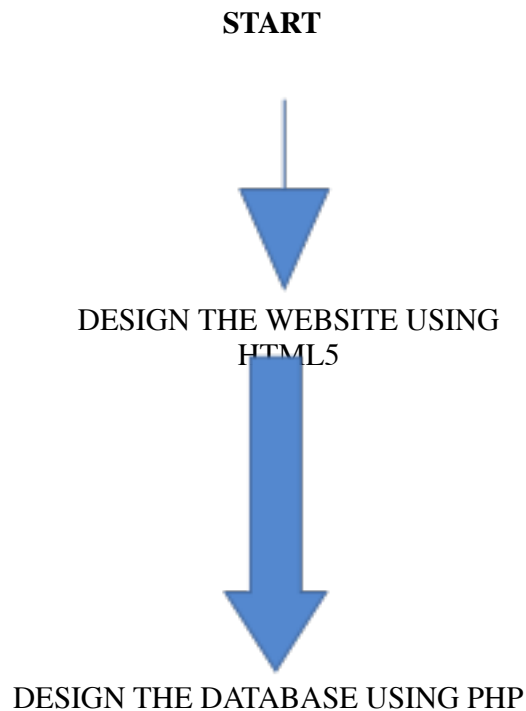
This project used different programming languages to produce its output and they are:

HTML5 (HYPER TEXT MARKUP LANGUAGE) : Used for designing the front end of the web based application

PHP :Used for designing the database of the web based application

PHYTON : Used for creating the application that scraped data from the WHO database

### FLOWCHART





DESIGN THE APPLICATION THAT  
WOULD FETCH DATA FROM THE  
WHO DATABASE



TEST AND DEBUG THE APPLICATION

ALGORITHM :

- START
- DESIGN THE WEB BASED APPLICATION USING HTML5
- DESIGN THE DATABASE USING PHP
- DESIGN THE APPLICATION THAT FETCHES DATA FROM WHO DATABASE  
TO THE WEB BASED APPLICATION'S DATABASE
- TEST AND DEBUG THE APPLICATION
- HOST THE WEB APPLICATION
- MAINTAIN THE APPLICATION
- END.