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18/ENG06/038

MECHANICAL ENGINEERING

A WEB BASED HEALITHCARE MANAGEMENT SYSTEM

Software development life cycle processes

* Requirement analysis
* Planning
* Designing
* System development
* Testing
* Deployment

REQUIREMENT ANALYSIS

The concept for LMR system is a web based health care management system. For effective COVID19 healthcare, a network system monitoring someone’s vital signs and evaluating one’s health condition is highly desirable. The purpose of this study is to design and implement a prototype based health care management system

PLANNING

 In system design, we adopted a platform-independent web based system for easy use. Then we considered security and privacy because of the personal data handled via the Internet.

Hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatibility and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements. These include, Intel dual Core, i3 as the processor of the Os, Internet connection for the health center, clinical thermometer.

Software Requirements deal with defining software resource requirements and prerequisites that need to be installed on a computer to provide optimal functioning of an application. Design A well- defined algorithm for a web-based COVID19 Healthcare Management System STEP1: Start

 2: Body status to the virus=0

 3: Add the COVID19 symptoms in the system

 4: Put the software involved

 5: Create a questionnaire

 6: Collect qualitative data

 7: Analyze Data

 8: Body Status positive to the virus

 9: Else

 10: Body Status negative to the virus

 11: Display feedback

 12: Stop

 

System development

 The data viewer function provided graphs of physiological data, which are body temperature, blood pressure, pulse wave (PW), and electrocardiograph (ECG), measured by the vital sensing system.

 Testing

 The COVID19 Healthcare web apps need to be fool-proof, which is why testing the apps and their functionalities become so important. Right from testing the security and compliances to the workability and the integration of the app, testing can also be done with different operating systems, internet connections and hardware.

Deployment

This application is being released to detect, display the rate of virus, store, transmit and access data through the web together and its updated when necessary based on the health center feedback

TOP- DOWN DESIGN APPROACH OF THE APPLICATION

 

Web based Healthcare application



Web server



Database

server



Application



Server



Create questionnaire



Data Analyst







Feedback

Function



Data Viewer

Function



JavaScript

,

HTML

documents

