

A computer is digital electronic machine capable of accepting input data, processing and producing an output (information). The computer is an important tool that plays a good role in the analysis of any subject that is to be programmed. Though before a computer can be successfully programmed and utilized, it must be studied. Hence, "computer Science" which is the study of computer and its programming is mainly about the design and analysis, modeling and application of computer related system.

Typhoid and malaria disease of human caused by infection with protozoan parasite belongs to the genus plasmodium and is characterised by chills, fever (sustained elevation of the body temperature) and in the most severe cases coma leading to death.

Health care information system is inculcated by health ministries, hospitals and clinics as well as dispensaries and other health industries where by sitting in the waiting rooms of the hospital to see doctors or medical practitioners are been educated in various health matters stating most health problems, their causative, prevention and control measures, first aid and possible cures with the aim of improving the health condition or situation of the people.

Therefore, the web-based that will be designed in this project serves as an aid to all medical practitioners and patients towards the establishment of proper health development, diagnosis and treatment of typhoid and malaria of the masses.

## **CHAPTER ONE**

### **INTRODUCTION**

Typhoid and malaria disease of human caused by infection with protozoan parasite belongs to the genus plasmodium and is characterised by chills, fever (sustained elevation of the body temperature) and in the most severe cases coma leading to death.

Typhoid and malaria infection can be either uncomplicated or severe it is said to be severe when plasmodium falciparum is the cause of the infection. The life cycle of the parasite (pathogenesis) is so complicated because of the tendency of the merozoite (daughter cell of the parasite) to produce different antigen that are sensitive to different antibody. This has made the production of the vaccine against it difficult and also making it possible for it to hide from the immune system

There are four plasmodium species that causes human typhoid and malaria. These

are plasmodium vivax that causes vivax typhoid and malaria, falciparum typhoid and malaria is caused by plasmodium falciparum typhoid and malaria typhoid and malariae caused by plasmodium typhoid and malariae and the fourth type oval typhoid and malaria, caused by plasmodium ovale.

The disease now occurs in tropical and subtropical regions of the world with Africa having the highest occurrence of the infection. The optimistic concept of eradication of typhoid and malaria half a century ago has been modified and the emphasis is now on control since speed, accuracy and efficient information distribution is what is required in a proper disease diagnosis and treatment, it then calls for a web-based health care information.

## **1.1 BACKGROUND OF STUDY**

Healthcare information is system inculcated by health ministries, hospitals and clinics as well as dispensaries and other health industries where by sitting in the waiting rooms of the hospital to see doctors or medical practitioners are been educated in various health matters stating most health problems, their causative, prevention and control measures, first aid and possible cures with the aim of improving the health condition or situation of the people.

In this health care information system, patient can learn much about typhoid and malaria, the things they do in order not to fall victims and in case somebody is a victim what should be done to help the person get rid of the disease

Therefore, the web-based that will be designed in this project serves as an aid to all medical practitioners and patients towards the establishment of proper health development, diagnosis and treatment of typhoid and malaria of the masses.

Furthermore, if the software is made available to the masses, there will be bound to be a reduction in the rate at which people fall sick, die or being handicapped by typhoid and malaria. Because they can browse the website from their home and watch on their own personal computers.

## **1.2 STATEMENT OF PROBLEM**

i. There are limited number of medical doctors for the treatment of typhoid and malaria and not evenly spread across the country. In addition, the people that should access healthcare facilities are far removed from medical facilities. In view of the foregoing, it is of great necessity to provide an expert system to assist doctors in diagnosing and treating

typhoid and malaria, which this research is focused on designing and creating.

ii. There is need to build a web based expert system that will diagnose people of typhoid and malaria, suggest treatment and provide necessary information on typhoid and malaria, for hospitals and individuals. The software will diagnose typhoid and malaria infection from information concerning the patient's symptoms and test results, and recommend a medication, have a database for storing information about drug prescription and other typhoid and malaria related information, and be user-friendly.

iii. There is need to create a system that would retain the skill of an expert medical doctor relating to treatment of typhoid and malaria in case of any eventuality. The system will act as a diagnosis tool, which can assist typhoid and malaria researchers determine the intensity or concentration of typhoid and malaria parasites in designated geographical locations and, in turn, help in developing effective control measures to limit the spread of typhoid and malaria in such regions.

iv. There is need to create a system that would also solve the problems encountered in areas where there are no medical experts or where medical experts are limited in number.

### **1.3 OBJECTIVE OF THE STUDY**

The aim of this research is to design and implement on web-based health care information system that will aid doctors on the undying struggle to eradicate a disease like typhoid and malaria.

- a. To implement a system that will help in the identification of typhoid and malaria.
- b. To give accurate efficient information on the treatment of typhoid and malaria.
- c. To give information on the prevention and control of typhoid and malaria.
- d. Its almost objective is not to be reliable and to be able to act as doctor in the absence of such doctors.

### **1.4 SIGNIFICANCE OF STUDY**

Typhoid and malaria is one disease, although common, yet a lot of people are still not well informed about it, and consequently do not take its treatment serious. Thus the importance of this research cannot be over emphasised, because it holds the key to proper diagnosis and treatment of the disease. It will also be useful where there is no expertise on typhoid and malaria treatment.

## **1.5 SCOPE OF STUDY**

This project work is centred to only on disseminating of health care information system for diagnosis and treatment of typhoid and malaria which will be an online based or web-based.

## **1.6 LIMITATION OF STUDY**

The limitation or hindrance encountered during this research include the financial aspect, the cost of getting the materials for this work and lack of sufficient information and co-operation from doctors and nurses as well as medical research institutions thus did not allow us to gather enough relevant data.

## **1.7 DEFINITION OF TERMS**

### **ALIMENT**

A mild illness or injury, especially a persistence one.

### **CHILL**

A sudden short fever: A short fever with shivering and a sensation of coldness.

### **CONSULTANT**

A senior doctor who is fully qualified in a particular branch of medicine.

## **EXPERT SYSTEM ON TYPHOID AND TYPHOID AND MALARIA**

The complete project material is available and ready for download. All what you need to do is to order for the complete material. The price for the material is NGN 3,000.00.

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**Regards!!!**