# CHAPTER THREE

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**3.0 INTRODUCTION**

This section describes the steps and procedures that were followed in order to accomplish the project. It specifically discusses methods used in data collection, technical tools used in development of the software, requirement specification, hardware specification and software specification.

## METHOD USE IN DATA COLLECTION

The information collected for development of this project employed the use of interview technique where information was obtained from the administrators who monitor and oversee the patient record keeping process of the clinic.

# 3.2 SOME INTERVIEW QUESTIONS AND RESPONSE TARGET FROM THE RESPONDENT

An interview is a face-to-face conversation between the researcher who is the interviewer and the responder also called the interviewee, the researcher ask question to get an answer or responses from the respondent. The interview was conducted to the chief record officer of Records Department, Best choice Clinic Kano. The interview took about 20 minutes. The interview is as follows:

1. What are the material requirements for record keeping in the clinic?

Answer: paper, pen, file.

1. How do you Keep Patient Records?

Answer: We keep Patients record manually

1. What are the Mistakes that you usually encounter While Keeping Records?

Answer: A patients diagnosis paper is easily interchanged.

1. How long does it take you to fetch a patients record?

Answer: 35minutes.

1. What are the main challenges you face retrieving a record?

Answer: The whole record room is scattered which leads to loss of documents.

1. Do you have cases where patients have a double record ?

Answer: yes

1. How do you usually keep record of the time table generate?

Answer: we keep them on papers

1. What is your opinion about automated patients record system?

Answer: I think it is a very good solution to our record keeping problems.

1. Do you think the proposed system will improve efficiency?

Answer: yes

1. Do you think the proposed system will correct all the problems of the existing system

Answer: yes

**3.3** MODELLING TECHNIQUE

Waterfall Model was employed as the Software development process model. The waterfall model is a sequential design process often used in software development processes, in which progress is seen as flowing steadily downwards (like a waterfall). The model will be employed in order to have an efficient and effective workflow for the development.

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## 3.4 Data flow diagram (DFD)

Data flow diagram is a diagrammatic representation of the process preparing a system. In this case, it shows the information flow within the system; showing how information enters and leaves the system, what changes in the information and where it is stored.

Based on the study carried out in the system analysis a data flow diagram has been built to determine which function is to be carried out by the computer.

i Patient registration

Patient info.

Receptionist

ii Patient History

Patient History

Doctor

iii Drug Allocation

Drug Allocation

Pharmacist

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# 3.5 CHOICE OF PROGRAMMING LANGUAGE

In developing the health record system, the programming languages chosen for the development are PHP and HTML . HTML is a markup language for describing web documents. HTML stands for Hyper Text Markup Language. PHP is a server side scripting language specially suited for the creation of dynamic webpages.PHP is designed to interact with HTML and PHP scripts can be included in an HTML page without a problem.

# 3.6 HARDWARE AND SOFTWARE REQUIREMENTS

Hardware and software requirements refers to all tools and methods to be used in the development process that serves to describe the system and its operation to make it ready for potential users.

* Hardware Requirement: - A PC with at least 20GB, 512MB RAM and at least 1.8 GHZ processor speeds are required for optimal performances.
* Software Requirements:- The system must have a localhost for testing it can be hosted online with PHP and MYSQL SERVER compatible with any of the following Operating systems like; Windows 2000, Windows EP Professionals, Windows NT 4.0 OS and LINUX/UNIX OS. Since its web enabled then a browser is needed to load and execute the web based front end such as internet Explorer (version IE 7.0) OR above, Mozilla fire fox 7.0 and /or Netscape navigator (Current Version), best viewed with Google Chrome browser.