Orphans Record Management and Tracking System for House of Hope Orphanage in Jos, Plateau State

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Abstract:- Orphans Record Management and Tracking System is a computerized system use to create and store accurate information about the identities of orphans in an orphanage. It further provides a digital repository for accurate and timely manipulation of adoption and admittance process in orphanage. This paper intends to design and develop a software that will enable the management of House of Hope Orphanage to keep adequate, accessible and correct records of orphans. The proposed software was developed as a standalone software using a Microsoft .net framework to track and monitor child admittance and adoption within the orphanage. Microsoft Visual Basic.net, OLedb adapter and MYSQL was used to build the system. The system offers Graphical User Interface, it was tested and implemented on Windows 7, 8 & 10. The result of the test was highly accurate and reliably solved the problems of the existing system with 85% accuracy. To further improve on the work, an Internet of Things (IOT) with RFID technology should be implemented in future work.

Keywords:- Orphans, Record Management System,Automation, Vb.Net, Tracking System, Biodata.

I. INTRODUCTION

An orphanage is a residential institution devoted to the care of orphans, children whose biological parents are deceased or otherwise unable or unwilling to care for them [1] [2], defines an orphanage is a residential child care facility that is intended to care for children from the time of their admission until their maturity or emancipation, and which holds itself out as an acceptable or superior substitute for the children's families.

The issue of an orphan child is one that has brought a lot of worries and concern in recent times. It is an issue which is very prevalent in Nigeria society.

The monitoring and tracking of orphans who have been adopted by foster parents has been very difficult due to the problems of proper record management system.[2]

As many adolescent children fall victims, this implies that orphan do not have siblings or any other form of relatives, home or identity. For this reason they lack the usual ambiance enjoyed in the family circle as well as the basic amenities of life and are more or less neglected by the general public. It is bad enough to be an orphan and adding to the lack of basic and social amenities, total neglects and insensitivity of the general public makes it even more unbearable.

Therefore orphanage record system is very vital to the management of orphanage homes; they are essentially valuable in the documentation of orphan and the action taken on any of them for future reference. The system also proffers flexibility in accessing and retrieving of information's[4], [5].

In this light, this paper intends to design and develop a software that will enable the management of House of Hope orphanage to keep efficient, accessible and accurate records of orphans.

II. METHODOLOGY

Observation and interview methods was employed for data gathering. The Unified Modelling language was used for modelling the proposed orphanage record system. The proposed system was built as a standalone application with the.Net Framework. The User interface of the system was built using visual basic.net tool box. Oledb adapter was used to handle data interaction between user form and the database. The data generated from the application is stored in MYSQL database.

III. ANALYSIS OF EXISTING SYSTEM

House of hope is a fast growing orphanage, which uses a manual method of storing information about orphans i.e. the use of paper and files in keeping the record of all orphans. This method is quite tedious and prone to error because manual system depends absolutely on human effort. The orphanage home currently lacks space for physical data storage due to the increasing number of orphans coming to the orphanage home due to the crisis in Jos. They are finding it difficult to manage the large amount of paper work. The manual system takes longer time to generate report, also maintaining the system is quite expensive.

IV. SYSTEM MODELING AND DESIGN

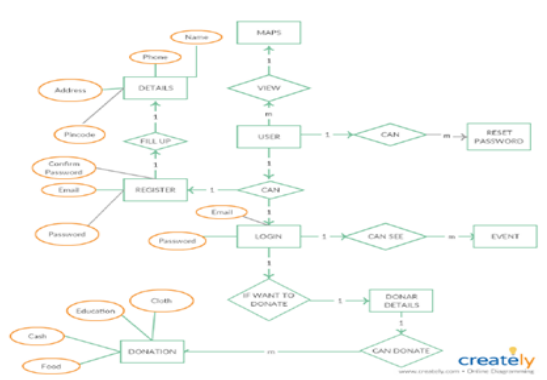To fully develop the systems, the following UML diagram was used:

Fig 1:- Entity Relationship Diagram of the proposed system showing the relationship and cardinality among the various classes.

V. RESULTS

The implementation of the system was successfully achieved, **it was tested and implemented on Windows 7, 8 & 10.**. Details of the system is as shown below:

Fig 2:- Application home page

This is the welcome page of the application that welcomes users and give existing user an option to login to the app to have access to other modules. It contains the click me button that will launch the main menu when clicked.

Fig 3:- Application Login Page.

The login page shows were the user and the admin can login to the system; it validates the user and the admin before they can have access to the main program. Here the username and the password is entered and if done correctly it grants access to the main program.

Fig 4:- Main Menu Interface. It acts as the navigation to the other components within the system.
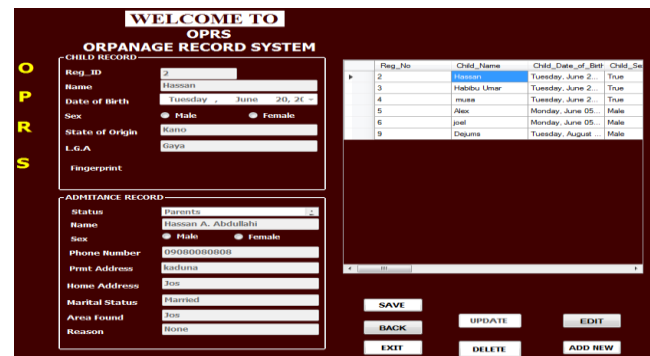

Fig 5:- Registration and admittance page

This form is used by the Admin and registered staffs to register an orphan's biodata and also stores information's of admittance from whoever brought the child to the orphanage. The registration form allows user to register new orphan and then save the information into the database for future references. To register a new orphan, the user clicks on registration form. Which will enable the user to enter data into the required text field.
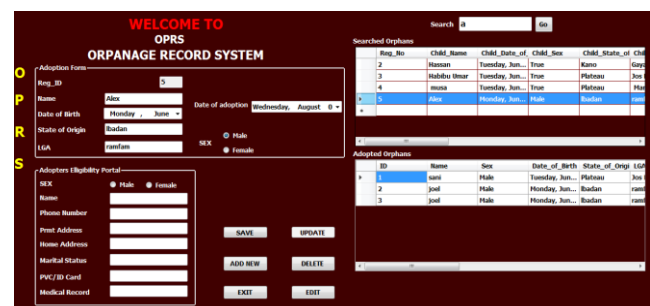

Fig 6:- Adoption Form

This form is also used by the Admin or registered staffs to input the information of adopted orphans or when an orphan is searched for, their information pops up on this form, it also stores information on the eligibility of adopters before any child can be adopted.

Fig 7:- List of Registered Orphans which contains the entire record of orphans that are stored in the database.

VI. CONCLUSION

This work has been able to develop a system that tracks the updates on court cases. The system is been implemented to facilitate easy and effective registration and verification of orphan's information. To the best of our ability and knowledge we have been able to automate the existing system providing easy access and fast data retrieval. To further improve on the work, an Internet of Things (IOT) with RFID technology should be implemented in future work.

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