

Orphanoserve: Advancement in Orphanage and Donation Management System using PHP

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Abstract

The system mainly deals with orphanages which get the things they need and allows donors to easily donate. The research uses a website and the website is built with HyperText Preprocessor (PHP). Donors can donate the requirements needed for the orphanages like clothes, money by adding pictures of the things on the site. Orphanages can browse the requirements uploaded by the donors and request what they need. The system provides additional services for the emotional well-being of the students. Orphanage students can inform the staff to schedule an appointment with a doctor. Overall, the research aims to address the problems faced by orphanages, make the donation process easier, and help students receive better care.

Keywords: Orphanages, Donations, Website, Donors, Pictures, Request, Emotional well-being.

1. Introduction

Many orphanages struggle to provide essential items like clothes, books, and educational materials for the students. The lack of requirements can hold students back from reaching full potential. Many individuals often want to help the orphanage students but they

don't know how to reach the orphanages or in some cases the money sent by the donors will not be used for the requirements of the orphanage because of fraudulent cases[3].

To solve the problem, the proposed study helps to bridge a gap with an absolute solution. The Orphanage and Donation Management System using PHP is a user-friendly technology to connect donors and orphanages in a secure and efficient way[5,6]. Donors can donate the list of requirements needed for the orphanages by uploading the photos of the same and also the donors can add a detailed description of the provided requirement. Orphanages can go through the items uploaded in the website and can place an order of the items needed for the orphanage students. The streamlined process ensures the resources get directly to the orphanages in a proper manner without any kind of fault or delay [7-10].

The research provides an additional service. After visiting so many orphanages and conducting surveys from the students, the team members interacted with the students individually, realising the need of the orphanage students, and understood the importance of emotional well-being. The students living in the orphanages mentioned so many difficulties faced such as lack of clothes, books and other requirements. Additionally, students are not receiving enough attention from the staff, and there is a lack of emotional support[11-13]. After thorough research and identifications, the system assigns government trained employees or psychologists for the emotional wellbeing to interact with the children through chat support and if the orphanage students wish to talk to the doctor for any kind of support they can inform the orphanage staff to schedule an appointment where the doctor can offer support and guidance through the website in a chat support mode. By realising the emotional needs and also the requirements needed for the students, the project offers a significant solution for orphanages[14-17]. Overall, the project aims to make a great difference in the lives of orphanage students. The project creates a massive way to manage the requirements, making donations in an easier way and helps students feel supported and cared for.

2. Related Work

“Food Wastage Reduction through Donation”, by Divyesh Jethwa, Ayushi Agrawal, and the other collaborators focus on the critical issue of food waste by proposing a web-based solution. The research aims to address the challenges of food waste and food insecurity by creating a digital platform that connects restaurants with surplus food to charity homes or

households in need. The approach mainly looks forward on the power of technology for the donation process, providing a direct channel for surplus food to reach for the individuals needing it the most. Existing literature surveys issues the urgency of mitigating food waste and the adverse effects on the environment and society. Studies have addressed the significant volume of food discarded globally, leading to resource depletion and contributing to greenhouse gas emissions. The proposed web-based system offers a promising solution by the potential of digital connectivity to optimize food redistribution efforts, thereby minimizing waste. [1]

Pawar, Prachi Jadhav, Sushant Bhosale, Mahesh Khatik, and Mrs. Gaytri Mujumdar propose the “Modern Donation Hub”, a customizable Android application aimed at focusing on the needs of orphanages by facilitating the delivery of essential items such as clothes, food, and stationery. The system comprises three main modules: Admin, User, and Donator. The Admin module ensures efficient management by providing tasks such as coordinating with users and giving importance to donation management. Donors can easily manage the donations through features like adding items for donation, selecting orphanages to receive donations, and editing location details. The user module mainly provides user-friendliness. Registered users can log in to view orphanages' needs, while orphanages can manage the profiles and donation requests. The system improves the technology to streamline the donation process, providing greater efficiency. [2]

S.Muthuselvan, E.Srividhya, S.Abdul Samad, D.Saranya, and S.R.Mridhula propose "Support Orphans," a location-based orphanage application for Google Android phones, aiming to facilitate donations of surplus foods and clothes to orphanages while also enabling contributions or donations for the orphanages. The application comprises several main modules: Register and Login, Donate Foods, Donate Clothes, and Donate Money. The Register and Login module ensures user authentication and registration, securely storing user details in the backend database. The Donate Foods module allows users to donate excess food to nearby orphanages in need, while the Donate Clothes module facilitates the donation of both used and unused clothing. Additionally, the Donate Money module enables users to contribute financially to support orphanages. Through the system, users can actively engage in improving technology to address the needs of orphanages efficiently and effectively. [9]

M. Selvaganapathi, M. Rakheshvarshan, R. Vijayakumar, Online Orphanage Organization (OOO) , is an android application designed for orphanages and NGOs, containing

various types of donations such as books, clothes, and money. The system mainly deals with two main modules: Admin and User. In the Admin Module, administrators have full control over all the processes happening in the system, with features including event organization and access to donor details. The User Module allows individuals to log in or sign up, giving access to donation procedures, orphanage details, GPS navigation, and communication with nearby orphanage staff. Developed using XML on Android Studio, the application aims to streamline the donation process and enhance communication between donors and orphanage organizations. [4]

3. Proposed Work

The proposed system is built using PHP. The methodology mainly comprises an administration section where the entire processing is controlled by the admin. There are three categories in the system. In the Admin section, there'll be a login page to get into the website and for the Donor, there'll be a login page in which the donor has to fill in the details such as name, phone number, place, date of birth and other some factors needed. After login to the website, there'll be a dashboard where the donor can see the graph consisting of how much requirements are needed for the orphanages. The donor can upload the photos of the requirements that the donor has and also the donor can provide a detailed description about the uploaded item.

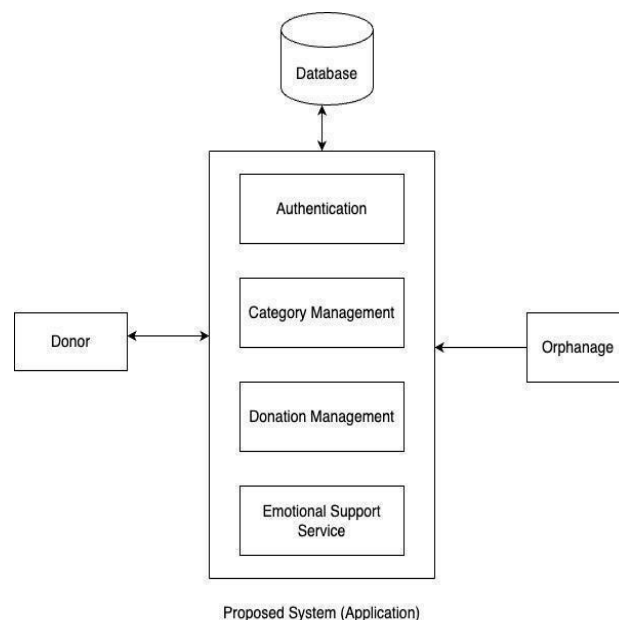


Figure 1. Flow Diagram

Next comes the Orphanage where the orphanage has to fill the details same as that had done in the donor. After filling the details and login to the account, the orphanage staff can go through the requirements uploaded and can request the items that's necessary for the students. After placing the order, the donor will send the item through courier service and that'll be free of cost. The orphanages can collect the items and the process seems to be done in a very secure and efficient manner. The system can control the fraudulent cases happening. For example, if a donor tries to get into the account with fake proof, the system can identify and can restrict access. The most important and innovative approach in the research is providing an emotional support service. Government trainers or psychologists deal with the students facing a lot of struggles and traumas by chat support service. If a child is facing some kind of trauma and needs emotional support, the child can inform the orphanage staff to fix an appointment with the doctor. The doctor login to the account by providing his/her name, phone number, ID number, and years of expertise. In case if the donor or orphanage accidentally opted the wrong choice, instead of proceeding into the next stage, the system provides a popup notification stating whether to confirm it or not. The methodology also provides the bank details of the orphanages and the donors can contribute money to the orphanages by collecting the details and payment is done on their own without any security issues. Throughout the development of the project, Safety would be the top priority. The system would connect people who wish to help and make a real difference in the lives of children.

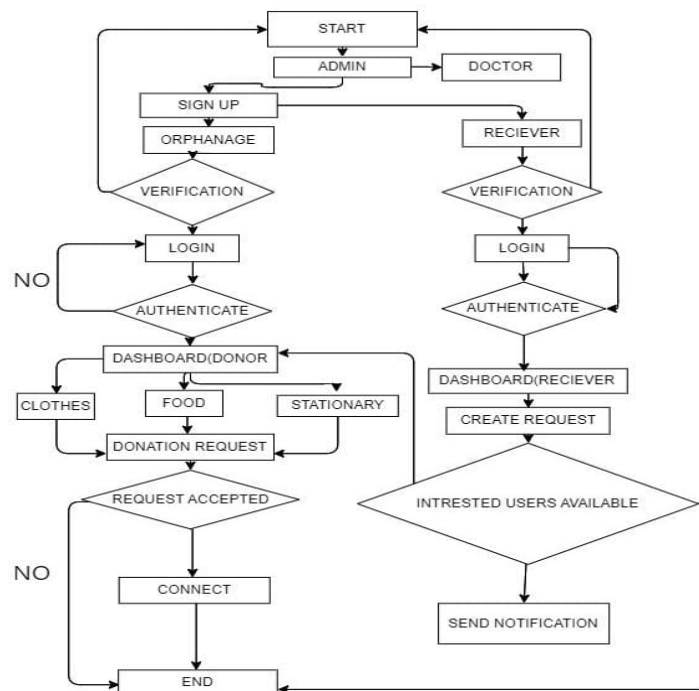


Figure 2. Sequence Diagram

a. Frontend

HTML provides the structure, CSS styles the elements, and JavaScript adds interactivity. Bootstrap, a CSS framework, offers pre-designed components for responsive and visually appealing web design. Together, these technologies form the core of frontend development for this system.

b. Backend

PHP with MySQL is a streamlined stack for backend web development. PHP simplifies web app creation with tools for built-in support for database integration, while MySQL offers a lightweight, serverless database solution.

c. Project Requirements

- **Hardware Specification**

The specification refers to different hardware components used by the application.

Table 1. Hardware Specifications

No.	Hardware	Specification
1	Operating System	Window 10
2	RAM	1GB
3	Memory	2 GB
4	Screen Resolution	1280x1024
5	Key Board	Normal
6	Mouse	Normal
7	Internet Connection	Required

- **Software Specifications**

The specification refers to the different software components used for the software. Software selection is an important work project development cycle. The minimum specification as follows:

Table 2. Software Specifications

No.	Type	Specification
1	Operating System	Windows 2000 Server
2	Front End	HTML, CSS, Javascript
3	Backend	SQL Server 2008
4	PHP Version	PHP 7.4 OR Newer

d. Tables

There are several tables used, some of which include user login, orphanage login, requirement gathering, chat support etc.

User Login: The Table.3 is used for storing login details of the user.

Table 3. User Login Table

Field Name	Data Type	Description
Username	varchar(50)	Name of the User
Password	varchar(50)	Password of the user
Utype	varchar(50)	Type of the User

Orphanage Login: The Table.4 is used to store the login details of an Orphanage.

Table 4. Orphanage Login Table

Field Name	Data Type	Description
Orphname	varchar(50)	Name of the orphanage
Lino	Int	Orphanage license no
Address	varchar(MAX)	Address of the orphanage

Phone	varchar(50)	Phone number of orphanage
Email	varchar(50)	Email of the orphanage
Username	varchar(50)	User name of the orphanage
Password	varchar(50)	Password of the orphanage

Admin registration: The Table.5 is used for storing the enrollment details of the persons.

Table 5. Admin Registration Table

Field Name	Data Type	Description
Adminid	Int	Id of the Admin
Fname	varchar(50)	First Name of the Admin
Sname	varchar(50)	Second Name of the Admin
Lname	varchar(50)	Last Name of the Admin
Phoneno	varchar(50)	Phone Number of the Admin
Username	varchar(50)	Username of the Admin
Password	varchar(50)	Password of the Admin

Doctor registration: The Table.6 is used to store the details of the Doctor.

Table 6. Doctor Registration Table

Field Name	Data Type	Description
Docname	varchar(50)	Doctor Name
Address	varchar(50)	Address of the Doctor
Doctorid	nvarchar(50)	Doctor ID
Design	varchar(50)	Designation of the Doctor

Joiningdate	varchar(50)	Joining date of the Doctor
Licenseno	Int	License number of Doctor

Requirement Gathering table: The Table.7 is used for storing the details of the requirements.

Table 7. Requirement Gathering Table

Field Name	Data Type	Description
Requirementid	Int	Id of the Requirement
Category	varchar(100)	Type of Requirement
Description	text	Detailed description of the Requirement
Camera	image	Image of the Requirement

Donation payment Details: The Table.8 is used for storing the donation payment details.

Table 8. Donation Details Table

Field Name	Data Type	Description
DonationId	Int	Donation ID
Donorid	Int	Donor ID
Transactionid	varchar(2000)	Transaction ID

Chat support: The Table.9 is used to store the details of chat support between a doctor and an orphanage student.

Table 9. Chat Support Table

Field Name	Data Type	Description
Chatid	Int	Unique identifier for chat
Doctorid	Int	Doctor ID
Studentid	Int	Student ID
Message	text	Content of chat

4. Results and Discussion

The Orphanage and Donation Management System using PHP tests all the important parts, the system makes sure the users can login securely and the complete processing will be in an efficient manner. Moving on to the donation management features, the system smoothly handled recording donation details, providing approximate details of what was received, and managing the operations of the orphanage. To create the Orphanage and Donation Management system using PHP, we started by setting up a simple database with mock data representing donors, orphanages, doctor profiles, and chat messages. Next, we validated the system's user authentication features to ensure accurate verification and access control. The system accurately recorded donation details to verify contributions. We also evaluated the chat support feature by creating doctor profiles and recording chats between doctors and orphanage students. This system ensures efficiency and user-friendliness, providing secure message delivery and facilitating effective communication between users. Below are images from the website

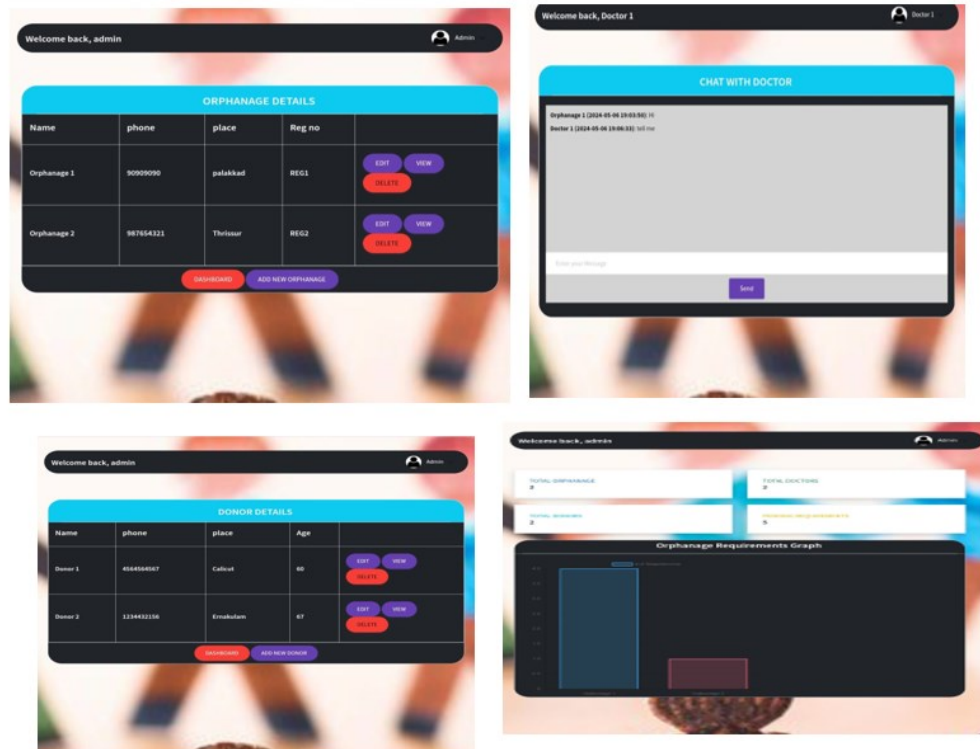


Figure 3. Orphanage and Donation Management System

5. Conclusion

The Orphanage and Donation Management System is not at all an ordinary software. The proposed study deals with every individual living in the orphanages to come out from their circumstances. Orphaned students are not at all getting their requirements, sense of affection and most importantly happiness is a major concern. The research represents a significant step towards providing moral support to orphanages and vulnerable children. Through user-friendly interfaces and functionalities, the system addresses specific needs and makes contributions to the wellbeing of the orphanage beneficiaries. The research is about creating moments that make a real difference in a child's life. The user interface mainly tries to provide or to build a new future where every orphanage children feels a very good atmosphere, by providing all the resources and supporting kids to reach their dreams and also focuses on providing positive change.

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