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Concise study on orphanage home

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Abstract: Over a hundred million orphans exist in the world today. The lack of food and clothing for everyday use are their biggest problems. Lack of money and education. Here we tend to introduce a website that will easily solve these issues. The purpose of this paper is to assist the orphans of various orphanages by people who wish to support the children and adopt the children by the application of automation. They can occasionally assist the orphanages by providing clothing and food to the specific orphanage that they find through online. The intended paper aims to reduce the time spent looking for a suitable child. The adoption procedure takes much less time when online techniques are used on a centralized data repository instead of manually looking for a suitable orphan. The weary people can use this website to learn about cause-related orphans, the basics of adopting children, and the various activities that are run in many orphanages. This website not only engages in the practice of offering orphans legal adoption procedures and refuge but also influences their lives by providing food, clothing, and financial support.

Index Terms **- Adoption, Donation, Orphans, Website**

I. INTRODUCTION

Nowadays, smartphones are a need for supporting our activities in almost every aspect of our life. Numerous mobile applications have been created to serve a wide variety of functions thanks to the significant advancements in smartphone technology, platforms, and individual developers. This has made our day-to-day lives more productive. This paper focuses on suggesting a website for managing orphanages that might be a better choice for both orphanages and prospective adaptive parents (PAPs). This website not only helps in adopting the orphans and giving them refuge, but it also improves their quality of life by giving them money, food, and clothing. Additionally, it provides the users with a number of options for helping the kids. Users are told to sign in using their phone numbers to ensure proper authentication and prevent confusion. Practically all of the prospective parents go forward to adopt the children, but they are not guided toward the proper adoption procedure. The orphans' suitable parents can be found through statistical analysis.

II. RESEARCH METHODOLOGY

Orphanage will use social media, newspaper, television, e-mail, telephonic, and other forms of media as a platform to reach out to potential clients through. Native advertising, Audio and video advertising, Google AdWords, Display advertising, Brochures and catalogue, Advertisement on mobile and social media.

In Survey on Online Orphanage System Using JAVA the authors have proposed the methodology where a customized web application will be essential to the goals of the orphanage.

Here, visitors to the website register their information before visiting. Then the registration process was completed, and they entered the building. They'll read the information on the orphanage. Those who are prepared to go to the orphanage as a group will do so. Providing your quantity by providing information such your name, account number, etc. This response message is delivered to the user's mail as soon as the admin gets that precise amount from the user. [11]

The admin sends the response message to the user's mail as soon as they provide that precise amount. The money that users provide is transferred in quantity to the administrator account. That precise sum can be transferred by the administrator to the designated orphanages. The admin's responsibilities include updating the database, adding kids to orphanages, and viewing user information. Together with the eligibility checks, there is an adoption option. For anyone looking to adopt a child from an orphanage.

With respect to the house of hope orphanage the authors Olatunbosun Jude and Abuh Emmanuel O [12] Found with the existing system that a rapidly expanding orphanage called House of Hope keeps track of all of its residents using paper and files, which is a manual technique of preserving information about orphans. Since manual systems are entirely dependent on human effort, they are highly time-consuming and prone to error. When more kids arrive to the orphanage home as a result of the situation in Jos, there is now not enough room for physical data storage. They are struggling to keep up with the mountain of paperwork. The manual program's report generation method takes longer and costs more to maintain.

In their proposed methodology the data was gathered through observation and interview techniques. For designing the suggested orphanage record system, the Unified Modelling language was employed. As a stand-alone application, the suggested system was created with the. The Net Framework VB.NET Toolbox was used to create the system's user interface. The OLEDB adapter was utilized to handle data interaction between the database and user form. The database used by MySQL houses the data produced by the programme.

The technologies used for developing our project is basically HTML, CSS, JAVASCRIPT, and PHP. HTML is an essential part of building a website where it helps in structuring the content such as structuring the web pages, creating headings, paragraphs, lists, and tables. This is important for organizing information in a logical and readable way on the website.

It also helps in form input where HTML forms can be used to collect data from users. For an orphanage management system website, forms can be used to allow potential donors to make a donation or for individuals interested in adopting a child to submit an application. Other features such as hyperlinks, multimedia integration and accessibility.

Multimedia integration is supported by HTML where we can include images, videos and audio. This can be used to provide visual aids or to showcase success stories and testimonials from the orphanage.

CSS is used to describe the visual presentation of the web pages. It has helped in creating the layout of the web pages, used to control the font size, color, and style of text on a web page. Color: feature is important for creating a visually appealing website and for using color to highlight important information. Other features such as responsive design which ensures that the website looks good on different screen sizes and devices. This is important for ensuring that the website is accessible to a wider audience.

JavaScript is a programming language used to create dynamic and interactive web pages. It helps in various ways like user interaction which is important for creating a user-friendly website and for allowing users to easily access information. JavaScript can be used to validate form input, ensuring that users enter the correct information. This is important for ensuring that the data collected through the website is accurate and useful. JavaScript most important feature API integration that allows the website to interact with external source data. For an orphanage management it is crucial where external data such as weather information or news updates could be relevant.

Bootstrap is a popular front-end web development framework that offers pre-designed components and styles, making it easier to create responsive and mobile-friendly websites. It provides various features like Responsive Design, Pre-designed Components, Cross-Browser Compatibility, Mobile-First Approach, and Customization.

Overall, Bootstrap can greatly enhance the development process of an orphanage management system website, by providing a framework that is responsive, customizable, and easy to use, while also promoting cross-browser compatibility and a mobile-first approach. This can help to create a user-friendly and accessible website that meets the needs of both the orphanage staff and the website users.

PHP basically helps in server-side processing this is important for an orphanage management system website, where data needs to be processed and organized before being presented to the user. It also helps in database connectivity where data such as donor information, child records, and financial data need to be stored and managed. PHP helps in user authentication where sensitive information such as donor information and child records need to be protected.

PHP can be used to generate reports or automate processes so that the website has customized functionality. This is crucial for an orphanage management system website where particular tasks may be needed, such creating financial reports or sending automated emails to contributors.

To construct dynamic, data-driven websites, developers frequently combine MySQL, a well-liked relational database management system, with web development tools like PHP. MySQL can help in developing an orphanage management system website in many ways like data storage where large amount of data can be stored and this is important for ensuring that the website is able to manage large amounts of data in an organized and efficient manner. It provides many other features such as data retrieval, data security where data retrieval used is important for creating a user-friendly and interactive website and data security is important for ensuring that sensitive information, such as donor and child records, is protected from unauthorized access.

III. HOW WILL THIS PROJECT SOLVE

Orphanage website is suitable for all the couples or parents whether single or not who would like to adopt kids. However, the target market is primarily segmented based on age and distance.

Youngsters mostly between the age of 25-35 years with genetic defects and various reasons. Old people aged approximately above 45 who’s single parent or without any kids.

IV. LITERATURE SURVEY

Cloud with data anonymization scenario:

A. Cloud security

To protect the data from each organization, security and confidentiality must be involved. Utilizing a contemporary method of encryption that meets criteria for treatment like the amount of time required to respond to client requests and the size of the encrypted

data that will be kept and transferred on the Cloud server is vital for secure data transmission and storage. The biggest obstacle to the rapid and widespread adoption of cloud computing and virtualization has emerged as security.

Security analysis of the notion in cloud computing varies from person to person and industry to business.[1]

B. Anonymization

Data anonymization is a method that leaves the original field layout (location, size, and data type) unchanged, so the data still seems realistic in test data contexts.

Three main objectives of anonymization are [2]: To prevent the disclosure of the identity of specific users, to prevent internal user identities from being leaked, to prevent the disclosure of specific security procedures used by businesses.

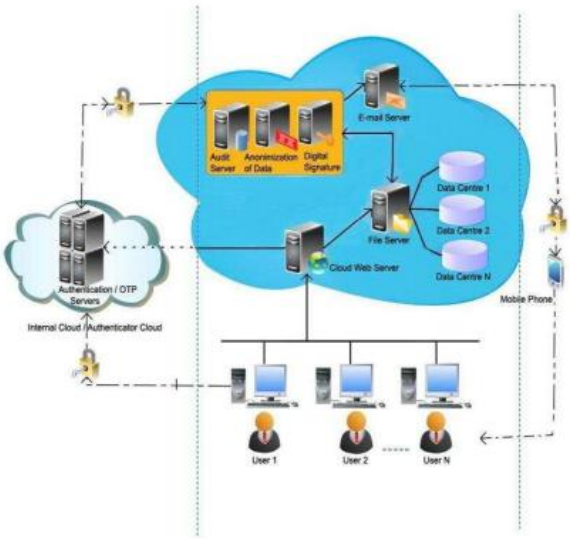

Fig.1: Architecture to Enhance Security of Data

C. Comparison Of Privacy Preserving Methods in Cloud Computing

Many approaches have been proposed to deal with the problem of retaining privacy. The need to protect privacy at all times and places is crucial. Privacy Maintaining has emerged as a significant worry with a mention of cloud computing's success.[3] Privacy protecting individual privacy is what preservation is all about without sacrificing functionality, disclose sensitive information or data the information.

Table 1: PRIVACY PRESERVING IN CLOUD

Techniques	Description	Cryptographic techniques used
Anonymity-based method	sensitive data is anonymized before being stored in the cloud.	NO
Architecture for privacy-reserving database storage	safeguards against both internal and external threats	YES
Privacy- preserved access control	determines user access rights and implements access control	YES
Privacy preserving authorisation system	proposes an infrastructure for policy-based authorisation	NO
Privacy preserving data outsourcing	ensures privacy through data fragmentation	NO
Preserving cloud computing privacy	maintains both user identification and data	NO
Dynamic reconstruction of metadata	Creates database schemas, separates metadata, and reconstructs metadata.	YES

D. Anonymization Techniques

The data can be made anonymous using a variety of methods, including encryption, substitution, field nullification, number and date variance, and substitution.[4]

1. Data Hiding

By substituting the value "0" for the data value, it suppresses the value. Anonymization using Black markers is another name for it. For instance, when considering a hospital database, it may not be necessary to process a patient's age, therefore this is changed to the value "0" as a substitute.

2. Computation of Hash

The checksum of a single entry or a group of entries is determined. It will accept varying inputs and outputs. input hashes of a set size. You can use MD5 or SHA. One can compute the hash of the first and last names, for instance.

3. Shifting

A field or data value can be shifted by a defined amount. The data value is offset somewhat. The sole secret key for the shift function is the shift value. For instance, the age column now includes an offset value of 10.

4. Data Enumeration

Another technique for replacement is enumeration. The events are still listed in the order they occurred chronologically. Applications requiring exact sequencing order can benefit from using it. For instance, the salary column is listed while keeping the execution order.

5. Conserving the Ip Prefix

The n-bit IP address prefix is preserved using this technique. Both anonymized IP addresses meet if and only if two genuine IP addresses fit somewhat on prefixes of n-bits. Here, the prefix of the IP address is kept.

Typed Transformation employs a single anonymized value for every distinct value of such starting data and belongs to prefix-preserving anonymization. Utilizing prefix preservation anonymization, the utility TCPdPriv.

E. Spectral Anonymization

No available anonymization algorithm offers perfect analytic utility and privacy protection at the same time. The data's output vectors can also be used to generate a spectral basis, which can offer a significant improvement.

Database System Concept scenario

The collection technology, information, and individuals and processes that come combined to create knowledge is known as an information system (IS). The importance of information necessitates its preservation, protection, regulation, and planning, much like money, facilities, and people are valuable assets for an organization. [5]

Information can be viewed as knowledge that has been documented and may be valuable when making decisions. This knowledge has been recorded and can resources to be consulted like statement on inventories, among others.

Every organization is built on information, but this is especially true in sectors like commerce, academia, and other sectors which have adopted digital technology. The function of an information technology is essential to achieving the objectives of an orphanage home, including survival and profitability.

To do this, an organization's information system must be a crucial component of its operations. In almost every industry on the planet, information is required and used continuously. By carefully integrating the orphanage home's essential operations and resources, plans, people, amenities, and information system, the orphanage home may quickly and affordably achieve its goals and objectives.

Information should be maintained in a reasonable manner and handled as a valuable asset to reduce costs. It is impossible to overstate the significance of an information system at an orphanage home since it offers management fast and meaningful information that aids in decision-making and gives solutions.

Data need to be gathered, stored, and analyzed in order to produce usable information. Essentially, database refers to set of logically organized data, connected files that can be combined as well as structured to create a single thorough system.

A database system, often known as a computer-based system, is defined as a data processing system that deals with databases. [6] Whose major objective is to record and preserve vast amounts of data that could provision the activities of several users? Organizing the database, gaining access to its data, keeping it up to date, and providing the databases productivity to a range of users are all issues that are addressed by database system architecture. A database's purpose [7] is to give a wide range of users with various demands easy access to a shared set of data. There are several reasons to keep the orphanage home's information in a database:

They will have consolidated control over operational data according to it, Redundancy in the data stored can be minimized, Data can be saved and stored, and Consistency issues with the data that has been stored can be avoided. Restrictions on security can be enforced.

V. ARCHITECTURE FOR RELATED WORK

1. User portal

The visitor must first use their email address to log into the website on the user portal. The user will learn about all of our website's characteristics once they log in successfully [10].

Like reading blogs on female equality, the list of numerous orphanages, and the events happening in various orphanages.

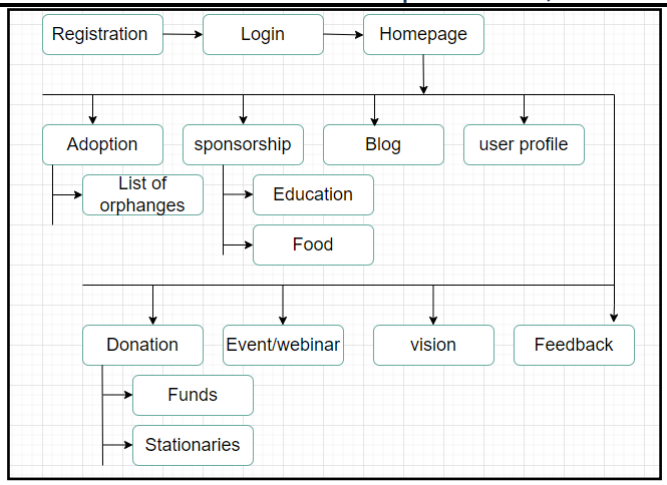

Fig.2: User architecture

2. Orphanage portal

In this case, the orphanages may then register on this website. The orphanage would be allowed to see all of the contributions provided to the orphanage by the sponsors after a registration process.

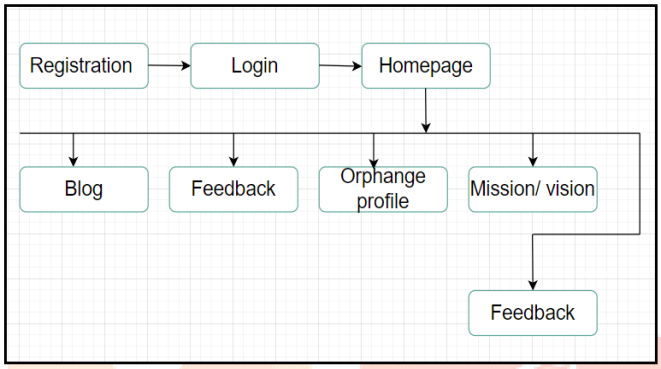

Fig.3: Orphanage architecture

VI. CONCLUSION

This study's objective is to suggest a website for an orphan that could be useful to both orphanages and Prospective Adopting Parents (PAP) [7]. By giving the orphan's resources like money, food, and clothing, this website will enhance their standard of living in addition to assisting with adoption and giving them a safe place. Additionally, it offers consumers a range of options for financially helping the kids [8] [9]. The implemented programme will have the ability to swiftly adopt kids from orphans and donate food, clothing, and cash to orphanages. When someone needs to adopt a child, they can browse the orphans up for adoption on the website and select the orphanage's most suited child based on their preferences.

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