Teaching Of Underprivileged Poor Children Through NGO And Educator JAVA Based Website

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Abstract: The aim is to create a website named EDUCATOR that will bring all such passionate volunteers closer to the unprivileged children. In this website we will be capable of registering, storing and displaying tutor's and the NGO's data. Any person can register with the basic details/information that is asked such as the Name, DOB, Qualification, preferred day and time of the week when they would like to volunteer, etc. and then login to the website. Once the tutor is logged in, they will be able to see the list of NGOs registered on our website and from that the educator can choose the desired NGO that they want to volunteer on the basis of location. Once they select their desired NGO, they will be given the contact details of the NGO such as the phone number, email-id and the address, the tutor can then contact the NGO and set a date and time to volunteer at the preferred NGO.

Keywords: Education; Society; Database; NGO; Volunteer; JAVA Programme

I. INTRODUCTION

Education is an important aspect of life. It helps to improve our life and gives us the ability to read and recognize out rights as an individual and this might not be available to everyone. JavaScript has emerged as a powerful tool that enables developers to build highly responsive web application while simultaneously providing access to powerful libraries to customize applications.

We observed that they had a variety of causes and projects to volunteer in various countries out of which the predominant one was providing educational materials to the needy [1]. It also provides with a provision to donate money to the organization by which study materials for the poor children will be provided [2]. However, in addition with providing study material it is also important to have people who can teach them, our website focuses on the same and helps the people willing to help reach out to those in need by suggesting them with different NGOs to volunteer in.

There are so many kids with potential to do so well in life but they don't get proper education due to the socio-financial condition. Now virtual schools are also there [3].So, this website is a step to provide education to the unprivileged children and hence contribute to the upliftment of our society.

The entire coding was done in Eclipse IDE (Java EE module)[4-5]. Eclipse provides powerful functionalities to create dynamic web projects [6].

This type of research implementation really helpful to children of same community. Improvement on this really helpful to give more education and solving the barriers.

Java is the most effective platform for students learning with interest as it only requires internet and computer or smart phone.
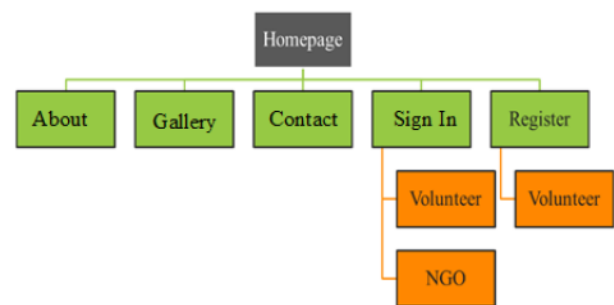

Fig 1.   Data Flow Diagram

II. PROPOSED DESIGN

The coding was done in Eclipse IDE (Java EE module) in order to design and implement the project. Eclipse provides powerful functionalities to create dynamic web projects. The project was divided into two components – Web Pages and Process files. The Web Pages were created using HTML and CSS. Each page was created separately and then linked to each other. These interfaces were designed to form the front end. Figure 1 and 2 shows the basic block diagram for data flow and data flow for volunteer.

The Process files were JSP files (Java Servlet Page) that established the connection between the front end and the MySQL database in the backend [7]. These pages took the data from provided through forms in the web and sent this data to the MySQL database in the back end. Some of these files were also made to be able to fetch data from the MySQL Database in the back end, and then display it to the user. Connection to the MySQL database was done with the help of JDBC (Java Database Connection) driver. It's because of the database connection that the user can view the data that was stored previously. The application is able to fetch the data of previous session as well as provide functionality to store the new data. For all one should need proper security of internet [8]. The potential of MySQL is very high and effective and it play a important role to easily understand the laboratory system [9] and [10].

III. RESULTS AND DISCUSSIONS

The front end of the web application was successfully completed HTML, CSS and JAVASCRIPT. It consists of a navigation bar that has five basic options-home, about, gallery, contact, sign in, register which is in figure 3. The navigation bar is visible on each of these five pages. Hence it provides the facility to user to access them. The navigation bar has been developed in such a manner that once a user successfully logins in his profile, it is no more available. Hence navigation bar is part of authentication layer. Figure 4 represents the contact page.

Fig 2.   Data flow for volunteer. Once a volunteer fills in details and registers, he/she is redirected to log in page. Upon successful login, he/she can view suggested NGOs based on the information provided.
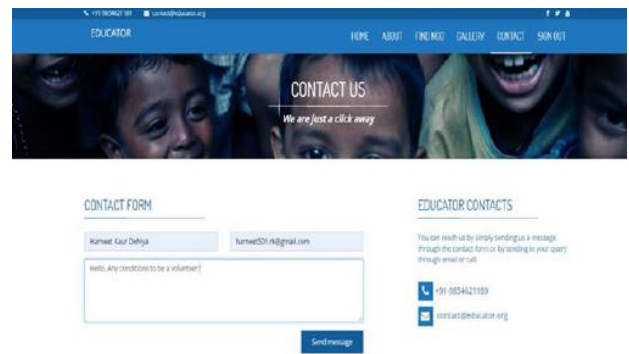

Fig 3.   Home Page

Fig 4.   Contact Page

When a new user wishes to register as a volunteer, he/she needs to fill basic details like name, date of birth, highest qualifications, etc. in the Volunteer Registration Page as shown above. This data is stored in the backend of the page in a database table as shown below figure 5. Once the user is registered successfully, he/she is redirected to the login page. Upon successful login, he/she can see the suggested NGOs based on information provided.
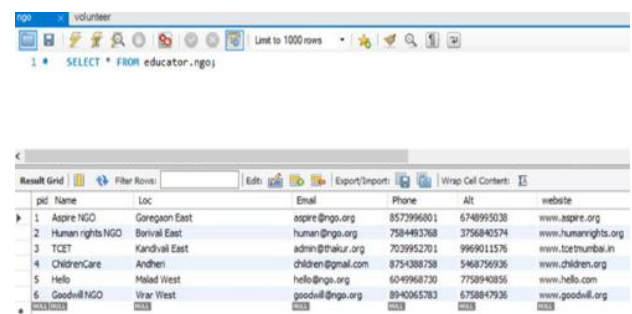

Fig 5.   NGO Database

Different NGO's can register on our website so that the volunteer that is registered in our website can see the possible NGO's they can volunteer at their choice.

Educators that anyone above 18 years of age who has minimum educational qualification of 12th Pass and wishes to teach. This can include full-time and part-time teachers and college going students.

IV. CONCLUSION

The objective of this project was to research and identify an existing social issue and hence use our skills to build a website and create awareness about the same. The website EDUCATOR that we have developed is able to meet those requirements. As defined in the problem statement, our website is capable of accepting volunteer registrations and then suggesting them with various NGOs they can volunteer at. All the pages in our website were made with the help of HTML and CSS keeping in mind that the website shall be pleasant and user friendly. Our website is a step forward towards the upliftment of our

society. However, there is always a room for improvement in any software no matter how efficient the system maybe.

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