Development of Social Application to Enhance NGO and Society Collaboration

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Abstract: In today's modern world connectivity is an important aspect in all fields. When it comes to Non-Governmental Organization (NGO), there is lack of connectivity in between them as well as the common man who is willing to do some good. Fortunately, the technology of handheld devices has solved many problems in past years. This system provides a common platform for NGO and Society to make use of connectivity for social services, information management and also promote major social events of the government. This platform majorly serves a common base for collaboration among organizations and every other common man. This system will also ensure safe and trusted use of donations by organizations and maintaining transparency in its operations.

Keywords: Collaboration, Expertise Location, Information Management, Transparency

1. Introduction

Today our society have number of NGOs that are striving to improvise the society and help the needy once in every possible way. But, the activities or events carried out by NGOs have very less exposure to the public as they tend to reach out to the people at a physical level. If these NGOs are provided with an online platform to create awareness for the events being held nearby or anywhere, it will enormously affect the participation of people in a positive way helping to create a visible impact on the society.

One of its basic objectives is to bridge the communication gap between the NGOs and Society. Moreover collaboration of multiple NGOs to support collective events and also sharing resources among them is yet another important feature of this online platform. Also aspects such as transparency about NGOs activities will be maintained and available for users at any point of time, thus encouraging more and more people to be a helping hand and be a part of good positive change in the society.

2. Related Work

It has been observed that Non-governmental organizations are trying their best to come and explore the online scope. Few organizations do have their websites, but comes with many limitations. Maintaining their websites cost them money and not every other NGO can afford to do so. Even those which have their own website and accept donations online, it doesn't help to manage the events online. Each organization needs to create their own version of web-based applications which causes user to limit to few organizations only. Hence, causing lack of communication with other organizations. The proposed system looks forward to overcome the limitations these organizations are facing to create awareness about causes among the society. This system also looks forward to create a common platform to collaborate every organizations as well as the society.

3. Proposed System

3.1 System Introduction

In the world of Internet where everything is going online, few areas are still left behind. One of them are NGOs. NGOs have very less online scope due to which they have to manage activities like creating awareness, promoting events and many more at physical level. This puts a lot of limitations on them like being restricted to specific area, lower response to the events and even though there are many people interested for social events NGOs aren't able to reach them.

To overcome all these circumstances and we propose an online platform which will focus on collaboration between them. As today Internet is in everyone reach, it will help reach out to people. Thus, will increase the online scope of the NGOs.

Using this platform NGOs will be able to notify the users about each and every events as well as activities on real time basis. The system will also facilitate a communication platform for NGOs among themselves too. So, the NGOs can collaborate their resources together to make an event large enough to create a visible impact on the society with ease.

3.2 System Architecture

In this architecture, it shows that the user will login into the system. Then the system will track its current location and will show activities going around based on its location. Also the user can use different modules like events, NGO, gallery etc as per its need. A user can act as NGO admin also to maintain NGO profile and work.

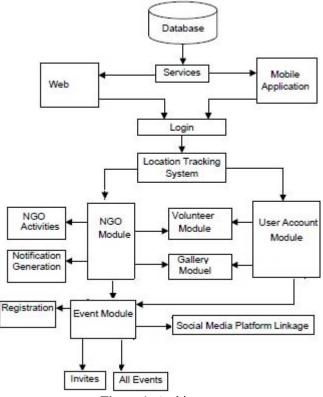


Figure 1: Architecture

3.3 System Modules

- 1) Event Module to maintain event information and online registration.
- 2) Volunteer Module to give user access to one touch registrations.
- 3) User Module to see activities of subscribed organizations and events.
- 4) NGO Module to handle Organization activities and maintaining their profile.

3.4 Algorithm

1. Start

- 2. Login
- 3. Get user location
- 4. Display homepage with activities
- 5. if(Search for NGO & events) enter manually in search bar else

use current location to display nearby options

- 7. if(enters event module) register to the event else if view details of events
- else
- upload documents
- 8. Switch to NGO Admin mode
- 9. Create NGO profile and perform NGO activities
- 10. goto 4;
- 11. Logout
- 12. Stop

3.5 Feasibility Analysis

Our Problem is a P-type problem that can be proved by following points:

- 1) Every user query gets a definite output i.e. Solution.
- 2) Every problem state is a deterministic state.
- 3) Even at the occurrences of error, the output generated will be definite, based upon the nature of error occurring.
- There won't be any situation where decision making has to be done by the system and any significant change is not dependent on it.

Hence, it is a P-type problem.

3.6 Mathematical Model

A. Let S be a system that describes the execution of the application.

 $S = {....}$ B. Identify the modules as M $S = \{M, ...\}$ $M = \{U\}$ where, U = UserIdentify module U $U=\{E,V,N,T\}$ where, E=Events V=Volunteer N=Newsletter T=Notification i. Identify module as U as E $E = \{Ev, Ec, Eu\}$ where. Ev=Event view Ec=Event comment Eu=Event photo upload ii. Identify module U as V $V = \{Vr\}$ where, Vr=Volunteer Registration iii. Identify module U as N $N = \{Ns\}$ where, Ns=Newsletter subscription iv. Identify module U as T $T = \{Tv, Tb\}$ where, Tv=Notification View Tb=Notification bookmark C. Identify the Processes as P $S = \{M, P, ...\}$ $P = \{Pr, Pd, Pt\}$ where, Pr=Process of registration Pd=Process of detection of location Pt=Process of tagging D. Identify the output as O $S = \{M, P, O, ...\}$ $O = \{OI, Or, Od\}$ where, Ol=Accurate location display Or=Registration confirmation Od=Display list of events and NGOs

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E. Identify the success as Su S={M, P, O, Su,...}

where,

Su= Success is when user gets updated or dynamic information on activities, events and location

F. Identify the failure as F.

 $S = \{M, P, O, Su, F, ...\}$

where,

F= When improper operations are done. The system can be described as S={M, P, O, Su, F}

4. System Features

- 1) Accurate Location based Services
- 2) One touch registration for events and volunteering
- 3) Real time Activity feed
- 4) Analysis Reports of Organizations
- 5) Communication and updates through mail to the users.

5. Advantages

- 1) Increase collaboration between the organizations and users
- 2) Higher level of transparency leading to trust and participation.
- 3) Online registration for events and volunteering
- 4) Dynamic updates based on the on-spot ground changes

6. Conclusion and Future Scope

The reach of Internet these days has given us opportunity to use it for social work. Thus the use of this online application will bridge down the gap between the NGOs and the society leading to more participation to various social causes. The future scope to this system limits to thinking. More the ideas, further the modules can be added to improve the efficiency of the system. In future the system can be used to make online donations and also e-commerce can be used to donate goods directly.

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