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Project proposal Plan

**Introduction:**

Our website integrates many organizations or trusts, by using our website if anyone wants to donate money they can easily donate them to any organization or trust. There are many types of charities integrated with this website like charities for children, old age people and women. Through our website donors can donate their money to any charities of their wish. Donors can find the information regarding charities through our site and they can enquire about the charities.

**Project Goal and Objectives  
   
Overall Goal:**

The main goal of project is to create a website which integrates all kinds of charity or organization activities, information and provide user friendly website .It integrates all charities information that’s why there is no need to go to another website for donating anything. With this website all kinds of donation activities will be done at one place and no need to search for another website to donate other things, every donation activity will be done at one place and it provides complete reliable information regarding payments etc.

**Motivation:**

We all hail from a small town in our country where we completed our secondary school of education. Later we moved to Hyderabad, capital of our state to continue our higher education as there was no scope for higher education in our home town. High school tuition fees were a huge amount which our parents paid for our education. Many a time we felt that what if our parents didn’t had enough money to pay our high school tuition fees? How would we progress in our life? So we wanted to develop a website which would act as an interface between various Organizations trusts and people all over the world. We hope that through this website can provide their support to every corner of the world.

**Objectives:**

This website acts like a mediator between an Organization or charity trust and Donor. The main objective of this website is since, donor has to browse different websites for different trusts, and we develop a site which enables donor to get information of different trusts easily from a single website. The other main objective to provide trust between the charity and the user by providing the feedback on the charity and through making charity contacts the donor. Some charities may not afford to maintain a personal website, this website will also help those charities to contact and connect with donors.

**Significance:**

By using this project if any member desires to donate money they can easily donate money to any organization or trust without facing any difficulties. Since this site will be an integration of all charities. He can easily search through the charities and make donations. We will also provide other modes of donations like blood donation and organ donation. User when needed can also request for blood and organs through this website. There are several types of charities integrated with this website such as charities for children, homeless, old age people and women. Through this website donors can donate their money as they want to any charities of their wish. The number of visits to the charity page will be recorded and feedback of the donors on respective charity will be integrated in the information page of the charity. After donation of money donor will receive the confirmation of the payment and after few days he will receive a mail containing the information regarding the donated money that was spent on several activities from the charity. Coming to the basic registration and login process a separate registration and login fields will be provided in the website. User and charity trust can register into the website and access the website. Charity can provide their requirements or availability in their information on the website. If user wishes to follow the charity he can simply click on the follow button that will be provided on the information page of charity and then he can set settings for receiving notifications etc. Once he starts following the charity the ongoing events of the charity will be sending as notifications to his mail id and also displayed on his home screen. Twitter and Face book will be integrated to the website so that he can follow them or tweet about them. A search option will be provided in the website so that if needed he can search the charities near to his location through Google maps.

**Project Background:**

Many other platforms exist with similar features to InstaCharity, but none of them can provide the full implementation services like InstaCharity .Some of the additional features of this website are mentioned below.

1) It provides Google maps service through which donors easily find their nearest organizations, but websites like india.org not providing this service.

2) It provides donors to write their comments regarding their donation activity, so that other donors can identify whether the particular organization is trust worthy or not.

3) It provides that for what purpose their donated item is used and whether it is used properly or not, but websites like Google for nonprofits is not providing this kind of services.

**Related work:**

There are several fundraising sites on different causes and one site on the name of "Human service Charities of America" which has functionalities of making donations to several charities across the world, publishing success stories of the charities, initializing the campaigns and providing registration for membership. Fundraising sites raises funds on personal causes along with social causes.

**Proposed System:**

**Requirement Specification**

Functional/Business Requirements

Requirements are each given a priority of 1-10, with 10 being the highest priority.

**Mobile Interface**

* (10) The system shall have an interface accessible through an application available on mobile Android platforms.
* (10) The mobile interface shall have 3 account options: donor, organization, and admin.
* (10)Admin shall be able to read donors’ and organizations’ data, modify data, and read student tracking.
* (10) Donors shall be able to read and write school data.
* (10) Organizations shall be able to read school data.

**Web Interface**

* (10) The system shall have an interface accessible through any common web browser.
* (10) The web interface shall have the same capabilities as the mobile interface.

**Donor Module:**

* (10)Donor visits website and register into the system, donor views all organizations information, comments on organizations.
* (10)Donor may invites friends to join in any organization
* (10)Donor donates money or organs to any organization
* (10)Donor checks status of his donation.
* (10)Donor may write comments on organization

**Organization Module:**

* (10)Organization visits website, organization set their organization name and register into website.
* (10)Organization checks what kinds of donations were accepted previously and status of those donations.

**Admin Module:**

* (10)Admin monitors the website.
* (10)Admin views all donors and organizations’ information.
* (10)Admin adds events and sends payment receipts to donors after donation.
* (10)Admin may delete organization, donor if anyone tries to cheat.

**Non-functional/Technical Requirements**

* (10) All persistent data shall be stored in SQL databases on an IBM cloud machine.
* (10) Data tables shall store data on each of the following: donors, organizations, user accounts, and payments.
* (10) Data tables shall store student-specific data related to his or her academics as well as data related to parent-controlled features such as detentions, missed due dates, and GPS tracking.
* (10) The response time shall be low enough to not affect the user experience detrimentally.
* (9) The system shall securely communicate personal information between the server and clients.
* (6) The system shall locally store messages to the server while disconnected from the server.

**Business Process/Workflow analysis:**

We would like to work in an agile fashion to produce rapid development. We will divide tasks as appropriate to group member’s areas of skill and expertise, as well those task’s relations and dependencies to other tasks in the project. The main focus will be development, but as development occurs so will bugs. In our workflow we will guarantee minimal amounts of bugs by responding to bugs immediately. Instead of simply noting the bug and moving on with development, that bug will be prioritized. Too often bugs fixes are postponed to the end of a project, and then the project runs out of time and gets rushed out the door full of bugs. To avoid this, we will test thoroughly and fix bugs as they arise.

**Technological and Architectural requirements**

* (10) The mobile interface shall require an Android operating system.
* (10) The Android application shall be designed using JQuery Mobile.
* (10) The web interface shall require a web browser.
* (10) All interfaces require an internet connection.
* (10) The data storage shall require SQL Server 2008.
* (10) The server shall require the .NET framework.

**Framework Specification**

Assumptions and Principles

Our framework is based on a service-oriented architecture. All logic and data will be stored on a server. Ideally it would be multiple servers to distribute the load and handle heavy load, but to simplify things we are using a single server. This server will store the databases which our web services use to provide data to any clients. Clients use mobile application, which when connected to the internet can access our web services and other existing services to retrieve data it needs to display to the user. We assume that both the server and the mobile device have a reliable internet connection.

System Specification:

**Existing services:**

We Plan to use the existing services such as Google Analytics and Google maps to provide the analysis of the visitors and the inflow traffic to the pages and to discover the organizations around a specific user location, it can be used to get the directions from the user location. These are the two Existing services that we would like to include into the project, if time permits and with novel ideas we can introduce innovative existing services as we build the project.

1. Name :Google Map Services

URL: <https://developers.google.com/maps/documentation/webservices/>

Description: Google Map Services were designed by Google Inc. for Geo Coding Purposes. It has various services such as find directions, show location etc.

1. Name : Google Analytics Services

URL: <https://developers.google.com/analytics/devguides/>

Description: Google Analytics Services were designed by Google Inc. for the analytical purposes. We can track the traffic to the pages and finds the visitors and the locations of the visitors. Google analytics extended its services not only to web but also to the mobile clients such as android and IOS.

**New Services:**

We planned for the following new services to be included in our project

1. **Registration:**

Using the registration service the user can enter his/ her details in the data fields which are connected to the data base. The values entered in to the data fields are then stored into the database. After entering all the required data in the database this service returns the successful message.

**Class Diagram:**



**Sequence Diagram:**

**Login :**

Using this service the User can login to the webpage, User has to first signup in the first visit and then can login into the webpage with the user id/ User name and password during the subsequent visits. The user first enters the Username and then the password these data fields are connected to the database, when this service is called it checks the database for the authentication of the data entered if data entered has credentials that are in the database then the user is directed to the home page else the service directs the user to request for the retrieving of the lost password through an email.

**Class Diagram:**



**Sequence Diagram:**



1. **Organization Data :**

The data enterd by the organization is stored in the database and can be retrieved from the database at an point of time using the specific default keywords or different user defined default fields such as the Top10, Most Visited, Near By etc.

**Class Diagram:**



Sequence Diagram:



1. **Donation Service :**

Using this service the user can donate the amount to the charity organization through a proper secure channel.

**Class Diagram:**



**Sequence Diagram:**



**Class Diagram for entire application:**



**Use Case Diagram for entire application:**



**Design of Mobile Client:**

Technologies : JQuery Mobile, HTML5 , CSS3, js , Adobe PhoneGap Build

We would like to use JQuery Mobile, HTML5, CSS3, js to develop the mobile client and call the web services to the mobile users and create a rich mobile client application. Then Using PhoneGap we could create an Android and IOS apps.

**Risk Management:**

Prioritization of tasks:

We have prioritized the tasks as below as a part of risk management. All tasks with High priority are implemented first and so on.

|  |  |
| --- | --- |
| Functionality | Priority |
| Donor SignUp | High |
| Organization SignUp | High |
| Donor SignIn | High |
| Organization SignIn | High |
| Donate | High |
| View Organization | High |
| delOrganization | High |
| delUser | High |
| sendPaymentReceipt | High |
| addEvents | Medium |
| ViewDonor | Medium |
| viewNotification | Medium |
| Invitefriend | Medium |
| Trackhistory | Medium |
| viewEvent | Medium |
| Edit Donor Details | High |
| Edit Organization Details | High |
| viewComment | Low |
| AddComment | Low |

Resource Backup:

* We are maintaining a central repository(github) so that knowledge is shared among the members and there is no dependency.
* Each member of the project has a good knowledge on the technologies that are going to be implemented in the project.

**Bibliography:**

<http://www.giveindia.org/>

<http://www.crowdfunding-website-reviews.com/crowdfunding_websites/kickstarter/>

<http://www.crowdfunding-website-reviews.com/crowdfunding_websites/indiegogo/>

**Github and Scrum do links:**

<http://www.scrumdo.com/organization/insta-charity/dashboard>

<https://github.com/instacharity/Instacharityproject>