Project: Helping Zone

Subject: SOFTWARE REQUIREMENT ENGINEERING

Sec: C

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Purpose:

Now-a-days in Bangladesh there are many groups like Shunte ki pao and Lighter Youth Foundation who are working with different social activities like blood donation, Street child, old age home, night school, tree plantation etc.

There are a lot of people working as volunteer in this kind of group. They work here without any payment but from their social awareness. Also there are many people who really need help from this kind of organization like -> there are many street children who are addicted to drugs and many criminal activities, there are many father and mother who are in old age home and don't get proper treatment and proper service. Also there are many people who are dying every year only because of blood.

So that's why these social welfare groups are here for solving these problems and helping this kind of people.

In the mean time they need volunteer for this works because one or two persons can't able to manage all these things. So volunteers are must for them.

And also it is not possible for them to knock every door and ask for volunteer.

So here we come with an idea. We want to build an online based mobile application as well as a website for volunteer problem solution and also for management of these volunteer.

Our application feature will be=>

1. All upcoming projects.

2. Registration of volunteer for these project.

3. Management of volunteer.

4. Previous project pictures & videos, volunteers list and their progress etc.

5. Sponsorship option & their name.

6. Apps and website's will have advertisement option from which also get donation for social work.

7. Donating money option

Why our application needed??

There are many people or student like us who are willing to help people but they don't know the way. Or they have no proper management. So here volunteer can do registration for upcoming projects and can see the previous projects. Volunteer can registration on a topic that they are interested. Also there are many fake organizations who are collecting money but they are not using it proper way.

Through this app we will ensure that who are using this app they are real and welfare organization.

Document Convention:

Font family: Times New Roman

Font size: 12

Header font size: 18

Header font weight: Bold(B)

Color: black

Header color: Blue

Reference font size: 12

Reference color: Red

Project scope:

Our app and website is for social welfare works. There are various organization available around us right now who are working in this sector. Our first target is gather them together and also figure out the fake organizations.

Our apps and websites first version main features will be:

  1. Many organizations will have access here.

  2. Every organization will have admin who have access to do anything in their organization.

  3. Admin can share picture, video, recent event, upcoming event.

  4. Admin can recruit volunteer.

  5. User can apply for volunteer work.

There are lots more. we will see in features.

What will be our second iteration targets?

  1. Every organization admin can chat with one another.
  2. Key target is too share volunteer with other organization if volunteer accept it.
  3. Accept sponsor request.

We will bring new features in future iteration also step by step.

Reference:

Website reference:

 http://shuntekipao.org/

http://lighterbd.org/

Productive perspective

Our product is an open source, under the GNU General Public License.so no body need to pay for registration. It is a web based system implementing client-server model. In this case we hold the server and our service belongs to our client. The System administrator provides a simple mechanism for users to share and acquire knowledge.

The following are the main features that are included in our social helping application

- Cross platform support: Offers operating support for most of the known and commercial operating systems. like windows, mac etc.
- User account: The system allows the user to create their accounts in the system and provide features of updating and viewing profiles. Also they can create group which called organization.
- Number of users being supported by the system: Though the number is precisely not mentioned but the system is able to support a large number of online users at a time.
- Search: search is simply local search engine based on keywords.
- Discussion Forum: Provides users with a platform to discuss and help each other with their problems
- Ticketing system: Allows user to submit his issue to the admin in case his problems are not solved by FAQs and discussion forums.
- FAQs section: Frequently asked section contains answer of problem which our app user frequently faced.

User Classes and Characteristics

User Characteristics

It is considered that the user does have the basic knowledge of operating the internet and access to it. The administrator is expected to be familiar with the interface of the tech support system. A user should understand how social platform works. A user must provide required information to create an account. Some constraint rules which must be followed. User can login their application with various devices. User must log out when they are about to leave.

User Class

There are three types of user

1. visitor

2. volunteer under any organization

3. organization admin.

Visitor-

-only access our app and watch our post rules and regulation

-cannot join any organization until they update in to volunteer

-cannot report any post.

-cannot message any other member except application admin.

volunteer -

-can join any organization

-can view any organization post and also app admin post

-can report on any post

-can upload status which must examine by app admin.

-can chat with other organization member

-can create their own organization

organization admin-

-can accept volunteer request

-can declare an event

-can remove a member

-can report against a post

--can upload status which must examine by app admin.

-can create group chat

-can create group call

-can cancel an event

Operating Environment:

Desktop browsers (Mozilla Firefox, Chrome, Opera, Uc browser, Microsoft edge, safari)

For Mobile:

Android, iOS

Minimum requirement for Android mobile:

Ram-512mb

Android version- ginger bread

Minimum space-50mb

Minimum requirement for iOS:

Ram-512mb

iOS version- iOS 5

Minimum space-35mb

Design and Implementation constraints

This system is provisioned to be built on the JavaScript framework which is highly flexible. Decision regarding which database to use should be taken considering the fact that data being exchanged or stored is large, and the appropriate data management system will yield efficient performance.so we use MySQL database. We also use php framework Laravel. We use php latest version which is php 7. We use our domain as .com fastest domain. We have total 8 servers and also 2 backup server.

Features:

Description of feature:

- Sign up
- Login
- Logout
- Profile (volunteer/organization admin)
- Post for volunteer
- Request to join/ donate money
- Approval / reject
- Report
- Notification
- Confirmation message or mail
- Event post
- Photo/video post
- Live streaming
- Search events by zone/ nearest
- Verified volunteer or organization account
- Volunteer group chat

Restriction:

- Need to internet connection
- Age restriction
- Must be student
- No political discussion
- No crime related report No violence
- Profile picture must(individual) no other things or group photo No double I'd
- No sexual or any kind of harassment
- User can not give any advertisement

- User cannot force anyone to Join their group Must be valid reason to join our app No gender discrimination

Functional requirements:

- All Id must accept numeric data entry otherwise invalid
- It doesn't support special symbols. If the user has typed a special symbol in the search input, it displays the warning message: Search input cannot contain special symbols
- only accepts dates before the current date
- The software automatically validates customers against the ABC Contact Management System

- A search is started when the user clicks Submit
- The placeholder disappears when the user starts typing
- The search language must be English
- can print on-screen data to the printer
- The background color for all windows in the application will be blue and have a hexadecimal RGB color value of 0x0000FF.

- Sign up
- Descriptions of user data to be entered into the system
- When a use sign up a confirmation mail will send user mailing account
- Profile
- Log in as user (volunteer / organization admin)
- User can send request to join a social work
- Donate money
- Volunteering work will count
- Admin can approve volunteer request
- Report(volunteer/admin)
- Admin can post photo/ an event

- All data will be recorded in database
- Logout

User Story:

- As a business analysis, I want to know the requirements so that I can understand the project.
- As a business analysis, I want to call a Jad session so that I can collect requirement from stakeholders.
- As a business analysis, I want to describe the requirements to the developer so that they can develop as per as require software.
- As a visitor, I want to sing up so that I can be a volunteer.
- As a volunteer, I want to login so that I can join the event.
- As a volunteer, I want to logout so that I can secure my account.
- As a volunteer, I want to see personal info so that I can verify is everything is okay.
- As a volunteer, I want to post so that I can show what these organizations do.
- As a volunteer, I want to report so that bad people can't be reach that sight.
- As a volunteer, I want to turn on notification so that I can know what's going on.
- As a volunteer, I want to confirm my mail/message so that I can confirm the organization I am valid.
- As a volunteer, I want to live streaming the event so that people can ask any question during streaming.
- As a volunteer, I want to search nearest event zone so that I can reach the event.
- As a volunteer, I want to group chat so that I can connect with other volunteer.
- As a volunteer, I want to donate money so that the organization can help people more.
- As a volunteer, I want to participate the event so that I help the organization.
- As a Admin, I want to see volunteer profile so that I can verify is everything is okay.
- As a Admin, I want to post event so that volunteer can join.
- As an organization admin, I want to demonstrate an event so that volunteer can join.
- As an investor, I want to invest to the event so that they can afford their cost.
- As a president, I want to provide my full attention so that no one can create any problem.
- As a president, I want to though event so that any volunteer can join the event.
- As a vice president, I want to create an event so that any volunteer can join.
- As a vice president, I want to take care of investor so that they can contribute money.

Usability:

Our software solves the core user problem means its automatically find best workplace based on user current location. Automatically suggest favorite working area. We use the latest technology to build this software as example we use NodeJs in backend so it's can be more Dynamic. We also use latest license API. Our software has less number of keystrokes with clarity so achievable goal is considered highly efficient. Navigation is one of the factors determining the efficiency. In that case we have AI chat-boat which allow user to prevent their confusion. Our software has good visuals and better graphics for best user experience. Our offline help line is active 24 hours. We update our software from time to time so that there is no security issue.
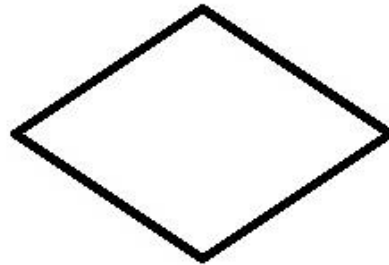
Software Performance:

1. Load testing measures system performance as the workload increases. That workload could mean concurrent users or transactions. The system is monitored to measure response time and system staying power as workload increases. That workload falls within the parameters of normal working conditions.
2. Produce fully formatted login in minutes.
3. This software writes the review and generates Organization and volunteer Performance Reviews AUTOMATICALLY!
4. Auto help line using AI Chat-Bot.
5. stress testing also known as fatigue testing is meant to measure system performance outside of the parameters of normal working conditions. The software is given more users or
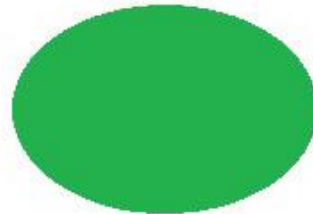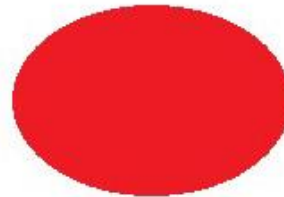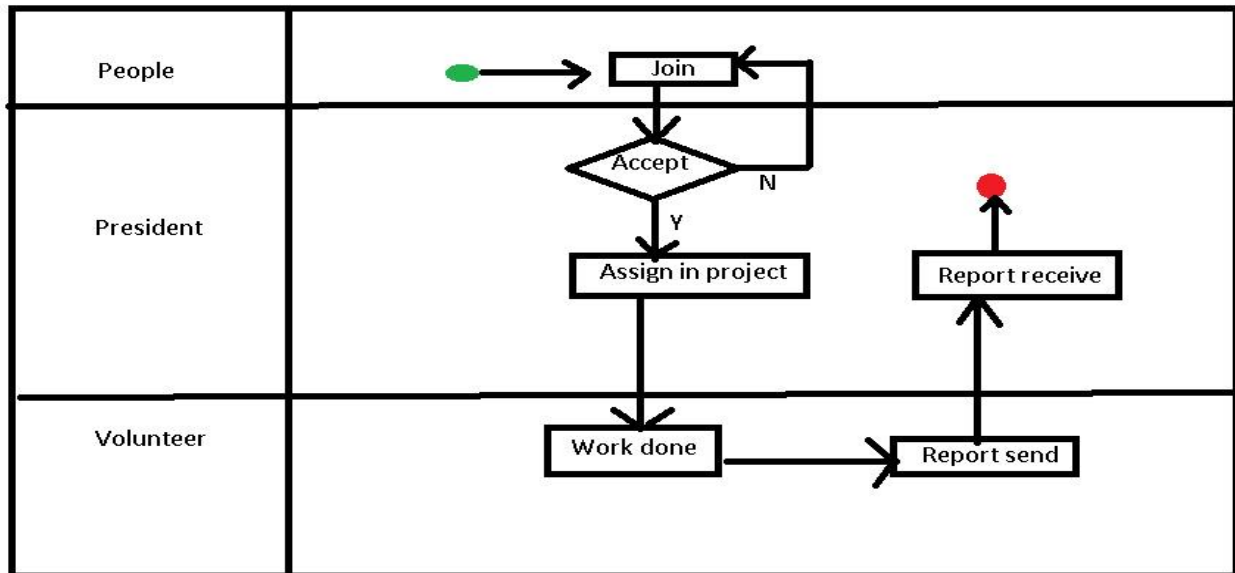
UML diagrams:

Process	▭
Dicision	◇
Start	🟢
End	🔴

AS-IS Process Flow

People	
President	
Volunteer	

TO-BE Process Flow

Visitor	
V.P.	
Volunteer	
President	
Sponsor	
Admin	
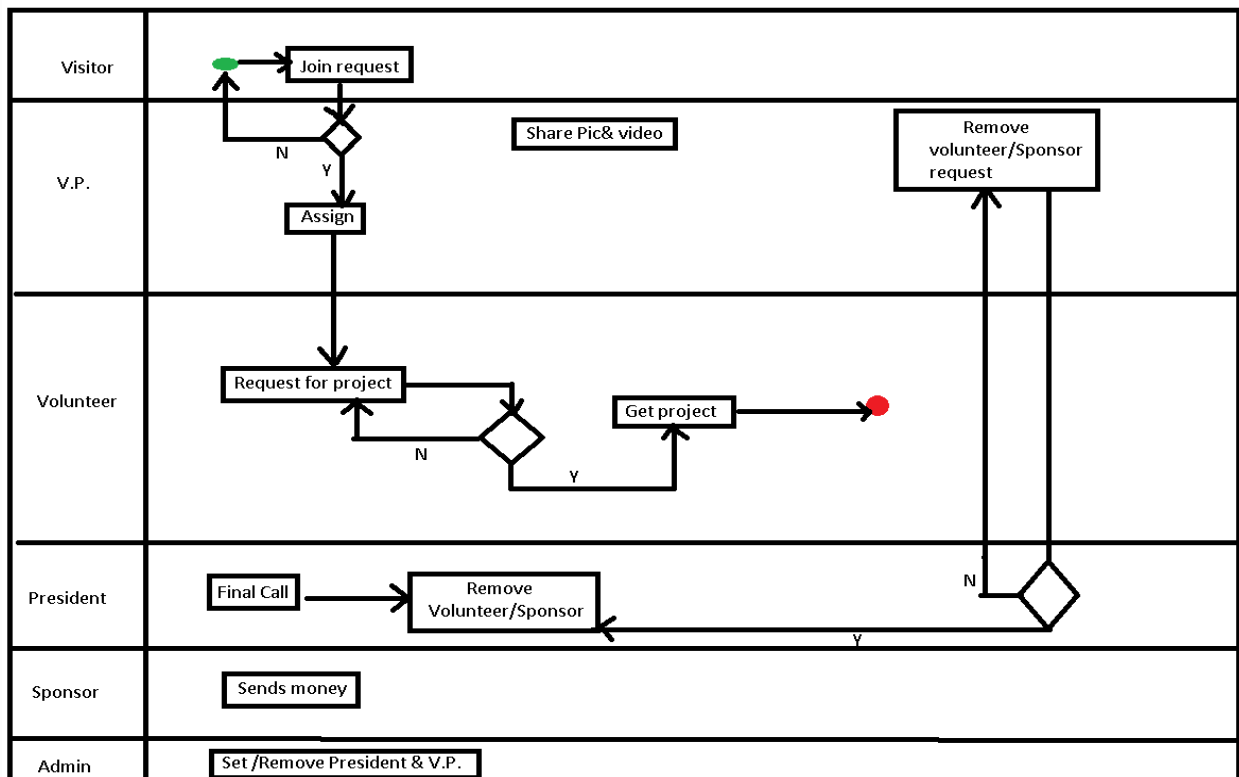
Data dictionary:

Entity	Attribute	Type/Size	Validation	Key
User(not registered yet)	userID	Number(10)	10000-99999	Primary
Volunteer	volantearID	Number(10)	10000-999999	primary
Organization Admin	adminID	Number(10)	10000-999999	primary
App Admin	adminID	Number(10)	10000-99999	primary
User	name	Text(10)	Required	
Volunteer	name	Text(10)	Required	
Organization Admin	name	Text(10)	Required	
App Admin	name	Text(10)	Required	
User	DOB	Date(8)	Valid Date	
Volunteer	DOB	Date(8)	Valid Date	
Organization Admin	DOB	Date(8)	Valid Date	
App Admin	DOB	Date(8)	Valid Date	
User	NID	Number(20)	Valid NID	
Volunteer	NID	Number(20)	Valid NID	
Organization Admin	NID	Number(20)	Valid NID	
App Admin	NID	Number(20)	Valid NID	
User	Address	text(50)	Valid Text	
Volunteer	Address	text(50)	Valid Text	
Organization Admin	Address	text(50)	Valid Text	
App Admin	Address	text(50)	Valid Text	