

ABV-INDIAN INSTITUTE OF INFORMATION TECHNOLOGY AND MANAGEMENT GWALIOR



The Great Mind Challenge'15

System Requirement Specification (SRS)

Topic:

SociGo: A Social Welfare android application

Dr. ANURAG SRIVASTAVA

PRESENTED BY

ANKUR SINGHAL
2014 IPG 016

DEVANSH VERMA
2014 IPG 036

VAIBHAV KHANDELWAL
2014 IPG 098

Contents

1. INTRODUCTION	1
1.1 Motivation	
1.2 Purpose/Objective	
1.3 Scope	
1.4 Definitions and Abbreviations	
1.5 Application Architecture	
1.6 Overview	
2. OVERALL DESCRIPTION	7
2.1 Product Perspective	
2.2 Application Interface	
2.3 Hardware Interface	
2.4 User Characteristics	
3. FUNCTIONALITY	9

INTRODUCTION

This project aims to develop a social welfare android application as a stand-alone platform for all social activities in a city.

MOTIVATION

We human beings reside on this planet earth and every one of us is different from others. When we are given a birth as human beings, then behind the scene we are considered as very different one from others and are made responsible to various things. In real life too, it is true.

We, the number of people live together and form a society and various societies combine together to form a city and this way the chain of combining one to another give a view of a nation. As a society forms from a group of people, so it reflects their interests, way of working, their mindsets and many other things. It all depends on us that what type of society we want to live in and how we create it.

Everyone who is living in a society is social responsible and should know about their responsibilities .If everyone of us understand his/her role and play his/her part accordingly, then it is a step towards a social living and will definitely bloom a healthy and prosperous society where everyone is a part of one another's life and can help each other in various forms.

PURPOSE/OBJECTIVE:

- Develop a social welfare android app as a stand-alone platform for all the social activities in a city.
- Through this, we are bringing together people and organizations who work voluntarily for the betterment of society and as a support for the needy poor people and forming a robust community.
- Management of database of all NGOs, College/Institute's Social clubs working for a social cause.
- Management of database of all the “Places of Interest” which include slums, some government primary schools and other locations where assistance can be provided.
- Developing a sense of Social responsibility among people.

SCOPE:

- Benefits of this type of platform :
- Bringing like-minded people and organizations such as various NGOs, college social clubs together to work for a social cause.
- Formation of a robust community by the participation of these peoples.

- Stand-alone platform to bring all the social activities at one place.
- Listing of NGOs, College Clubs will help the people in finding an appropriate place for a specific problem.
- It is helpful in creating and organizing events such as Cloth Donation, Blood Donation, Teaching & awareness camps at a massive scale in which anyone who is the part of "Socigo" community can volunteer.
- To fulfill any emergency requirement such as blood or last time medical aid for poor people.
- To engage more and more people in discussions and other activities to get the best solution of a problem.
- Listing of "Places of Interest" i.e. the areas which include slums, government primary schools and other locations, will help the people to solve the problems of these areas effectively.
- Making people to post about their work so that they will be applauded by community and feel motivated to do tasks further.

DEFINITIONS & ABBREVIATIONS:

NGO – Non-Government Organization

SociGo – A social welfare android application

Application Architecture- JAVA, XML

JAVA

Java is an object-oriented programming language developed by Sun Microsystems a company best known for its high end UNIX workstations. Java language was designed to be small, simple and portable across platforms, operating systems, both at the source and at the binary level, which means that Java Programs can run on any machine that has the Java Virtual Machine (JVM) installed.

XML

It is a markup language which stands for 'Extensible Markup Language'. It basically defines the layout of an android application which means how the android application will look.

DEVELOPMENTAL TOOL- ANDROID STUDIO

Android Studio is the official integrated development environment (IDE) for developing for the android platform. It is freely available under the Apache License 2.0.

It was in early access preview stage starting from version 0.1 in 2013 and its first stable build was released in December 2014, starting from version 1.0.

Based on JetBrains' IntelliJ IDEA software, It is designed specifically for Android development.

DATABASE PLATFORM-

SQLite is an open-source C library for managing relational databases that can be stored both on disk and in memory. It supports dynamic typing (types are assigned to values, rather than to columns), transactions, full-text search, single-writer/multiple-reader access, efficient range queries (useful when storing geographical data), and shared caching (across connections opened by a single thread to the same database).

SQLite stores each database as a single disk file in a cross-platform format. This implies that you can create a SQLite database on one machine and then use it on another machine with an entirely different architecture by simply copying the corresponding file.

OVERVIEW

For the peoples living in a society, it is very important that they should understand their duties towards a society and should play their part honestly. "SociGo"- It is a social welfare android application as a stand-alone platform for all such type of people and organizations.

It helps in bringing like-minded people and organizations which include various NGOs, college clubs to work together for a social cause and to uplift the various sections of society in different domains.

The main objective of this application is to form a robust community of helping hands who can provide their assistance and work voluntarily for the betterment of people and society. Another important feature is the emergency notifications so that without wasting the time in asking or confirming with one another, the volunteers can provide the help as quick as possible. The listings of various NGOs and social clubs at a common place will connect each other and can solve the problems more effectively.

With this, the listing of the places help in finding those locations where we can extend our help. The community members can also discuss about various issues and problems to get the best solution of a problem. In total, it aggregates all social activities within a city and make the people to participate voluntarily.

OVERALL DESCRIPTION

PRODUCT PERSPECTIVE:

Our product's vision is to make people socially responsible and participative to become a change in itself and solve the society's problem and forming a robust community of such people by providing a stand-alone platform for the aggregation of all the social activities.

APPLICATION INTERFACE:

- Client
- Server
- Database server
- Administrator control

HARDWARE INTERFACE:

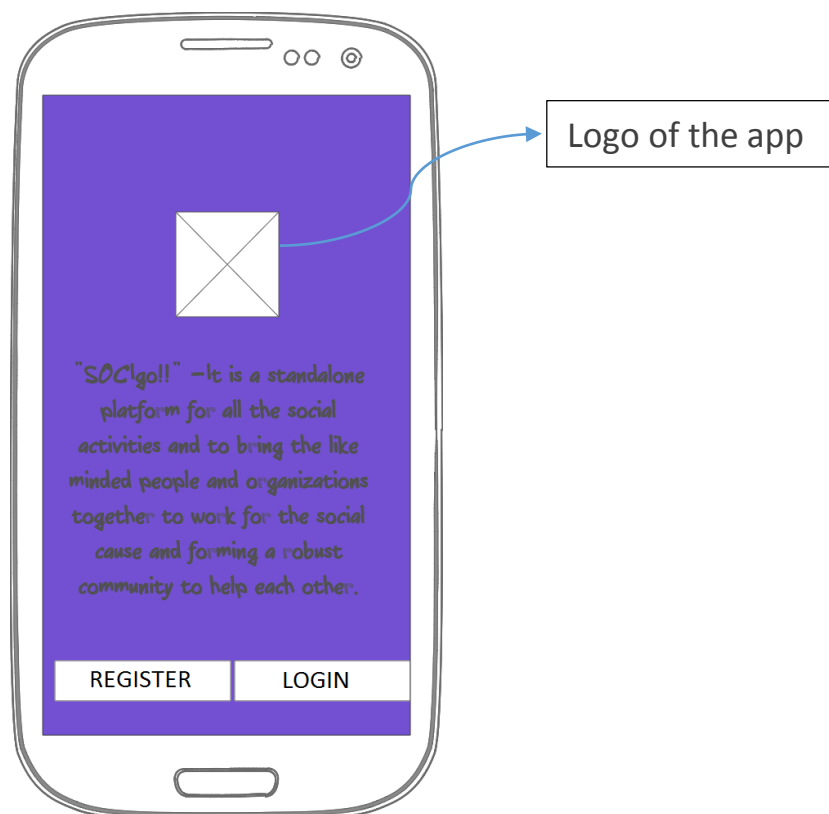
	Processor	RAM	Disk Space/Mobile Storage Space
Client Side			
Android Smartphone	Any standard processor	256 MB	20 MB
Android Studio	Standard Processor, At least i3, i5 and i7 recommended	2 GB RAM Minimum, 4 GB RAM Recommended	500 MB
Android SDK	Any Standard Processor	2 GB RAM Minimum	At least 1 GB for emulator system, images and caches

USER CHARACTERSTICS:

- Must be interested in social activities.
- Must support the system and help improving it by giving suggestions in initial stages.

FUNCTIONALITY

After downloading the application, the app will appear the way to the user as it is shown below:

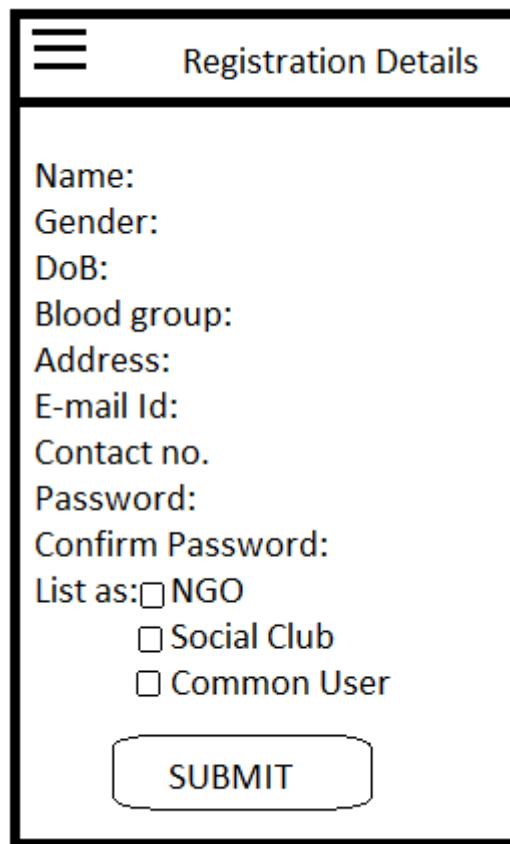


This home layout will contain a short description about the app and will provide a user options to become a member of this community or to explore the community for an existing user by clicking on LOGIN.

If a user is new and doesn't have an account then firstly, he/she has to register on the app by clicking the REGISTER button

else he could directly login to the app where he will be asked to enter his mail-id and password filled at the time of registration.

For a new member, after clicking on REGISTER tab-

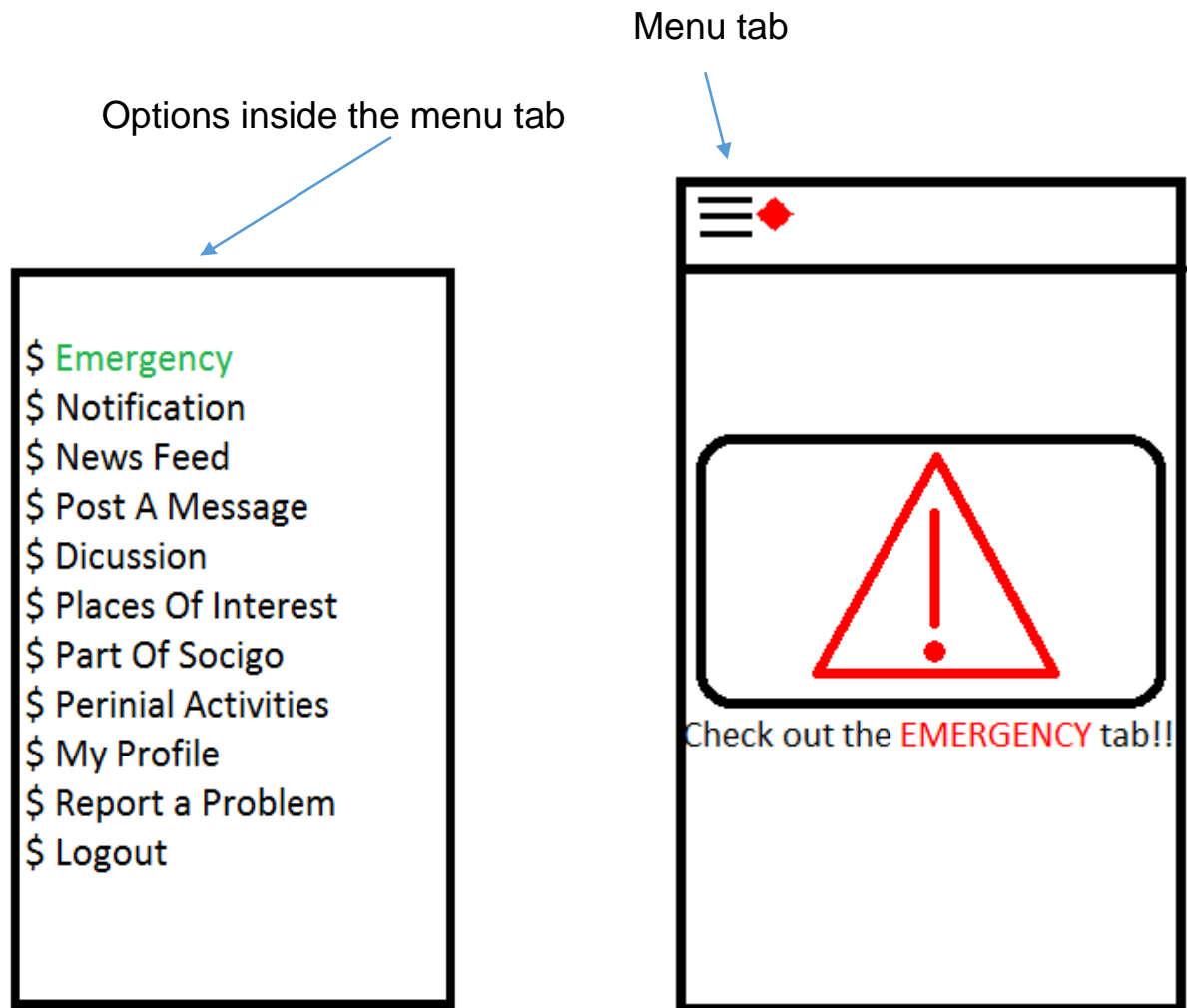


The image shows a mobile app registration form titled "Registration Details". It contains the following fields: Name, Gender, DoB, Blood group, Address, E-mail Id, Contact no., Password, and Confirm Password. Below these fields is a section for "List as:" with three radio button options: ☐ NGO, ☐ Social Club, and ☐ Common User. At the bottom of the form is a "SUBMIT" button.

This is the registration details layout where one has to fill all the details for successful submission and to become a member of SociGo.

When one choose the option as **NGO or Social Club** then there will be a pop-up asking to fill the details about the NGO or a social club respectively. For a NGO or Social Club, admin will verify the details and after proper verification, these will be listed in the app as "Part of the SociGo".

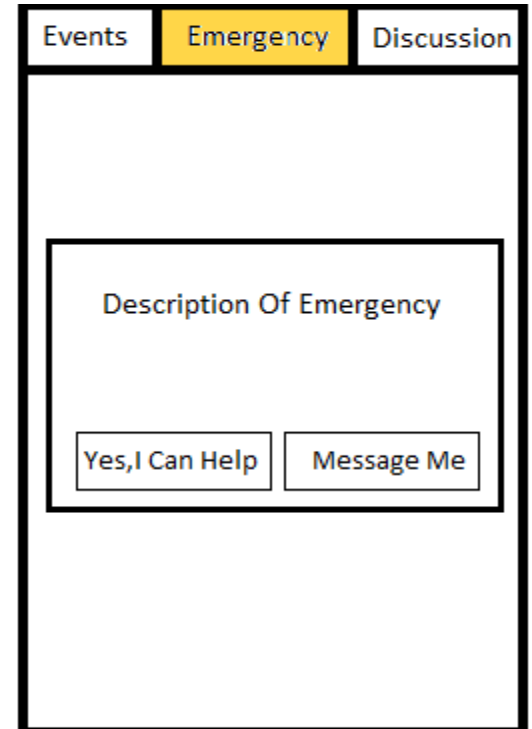
After successful registration, the user will be free to explore the features of the app as follows-



1. Emergency

Whenever there is an emergency situation which is one of the important feature of this app, the emergency symbol turns red and an alert message will be displayed on the screen as it is shown above. The emergency symbol will be displayed on every layout of the app as it is marked above in the right side layout with a red diamond symbol.

2. Notifications



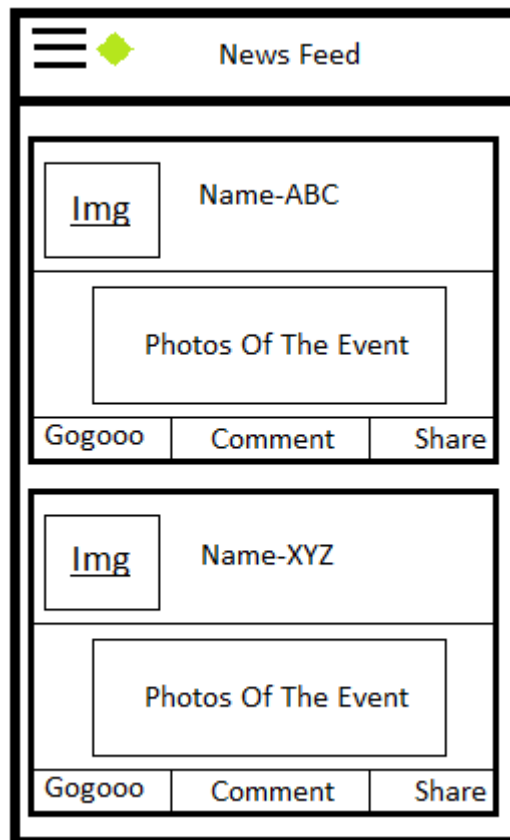
After opening notifications, events which are to be held will be displayed by default under the **Events** tab as it is shown in the left side demo layout and the person can swipe to change between the emergency tab and discussion tab.

In **Emergency tab** there will be post related to “Emergency” situations like blood or any medical or personal aid needed at last time in case of humans or animals which will be described under ‘Description of Emergency’ as shown in the right side demo layout.

In these type of situations if a volunteer meets the requirements then he can help by clicking on **“Yes, I can Help”** tab otherwise if he has some important message that could be helpful to the person then he can click the **Message tab** to send the message. By clicking on help tab there will be a pop up which will ask some details in order to fulfill and solve the emergency situation so that the recipient side and donor can communicate with each other.

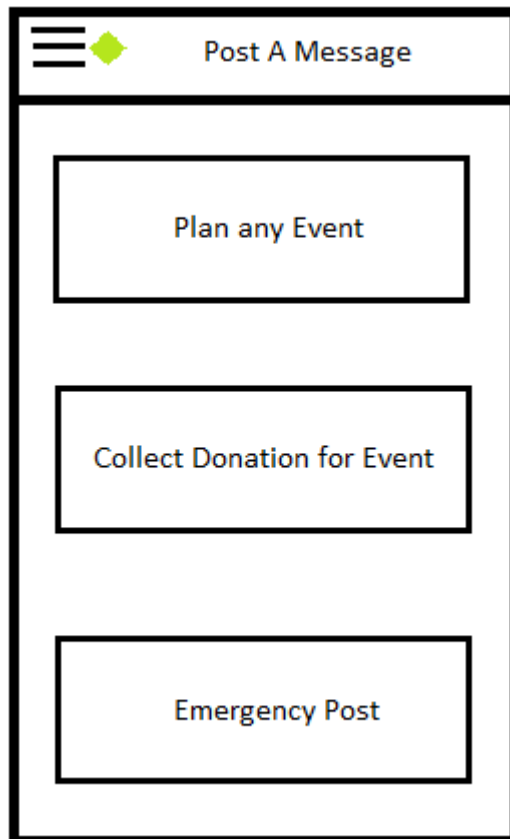
In discussion tab one can discuss about any event or a problem to get the best solution. Everyone is allowed to see the threads in discussions and can take part by providing solutions to the problems. Through these type of discussions, one will be engaged and will know about other's opinion at the same time.

3. News Feed



In news feed, one can share the images of the past events to share up their experiences and thereby motivating people to join them in the events. These news feeds can be seen by all the members of the app and they can like (Gogoo), comment or share the posts also. Through the news feed, one will be able to know about the actuality of the events.

4.Post

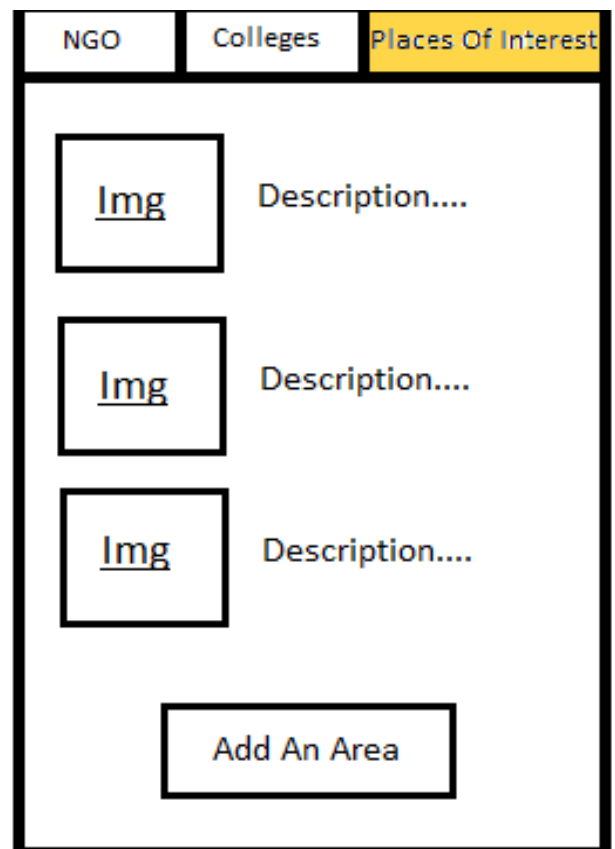
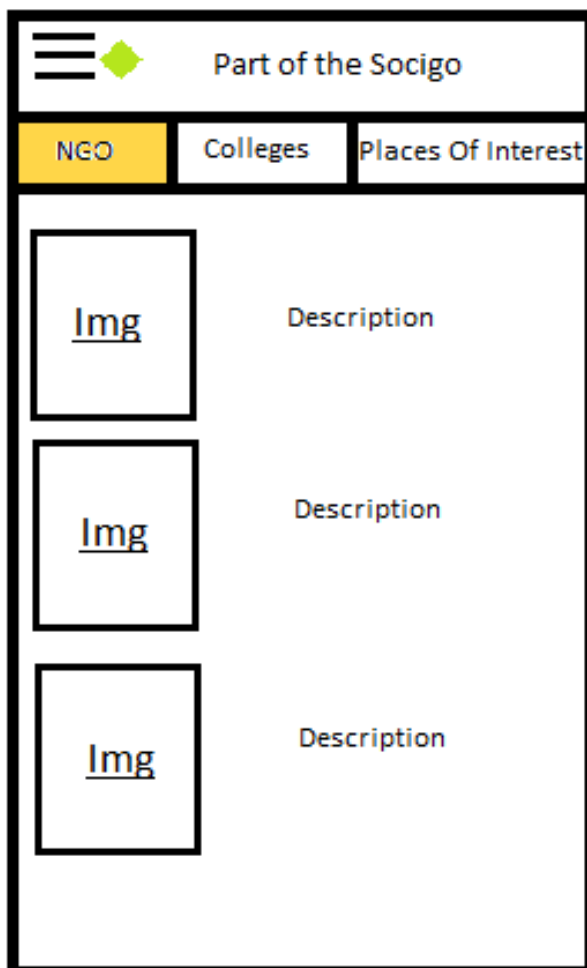


In POST, there will be three categories in which one category is '**Plan any event.**' Inside this, members can plan any event related to social activities where they have to give a description about the event and the list of requirements if needed and can post the same. After posting, it will reach in the notifications bar of the users.

The second tab will enable the user to collect the donations in any form (it may be money, any commodity or other thing) in order to organize events such as blanket/cloth donation, organizing feast for the poor, helping them financially as medical aid or personal aid.

In emergency situations, one can post using the tab **Emergency post** to meet its requirement which will be immediately intimated to all the users of the app and will help to get a quick response. After posting, an alert message will be pop-up onto the screen and the symbol of emergency (as it is shown in the above layout marked by diamond shape) will turn red.

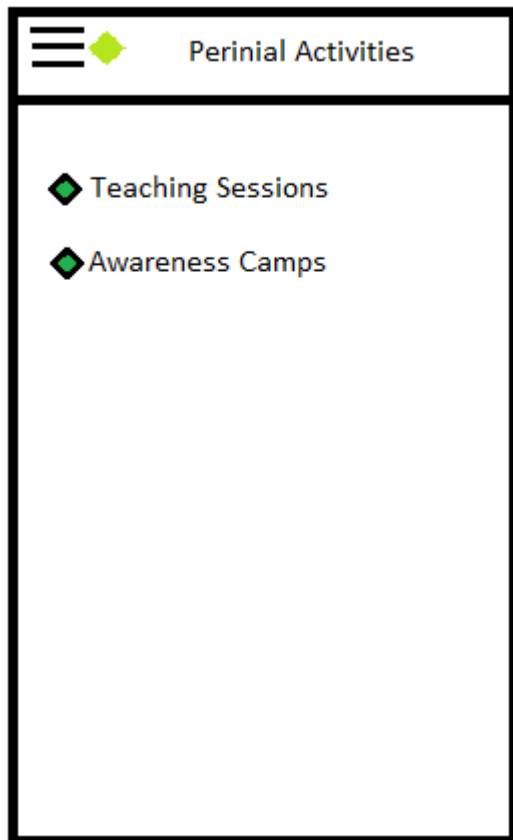
5. Part of Socigo



Part of Socigo includes registered NGO's, social clubs and "Places of Interest". After opening this, NGO's list will be displayed by default as it is shown above in the left side of its demo layout. List of NGOs or Social Clubs will contain the details about them such as areas of working, field of interests etc. One can switch over to other tabs such as Social Clubs and Places of Interest by clicking on them respectively. NGOs or Social clubs or Places of Interest can be search by their location typing into search bar.

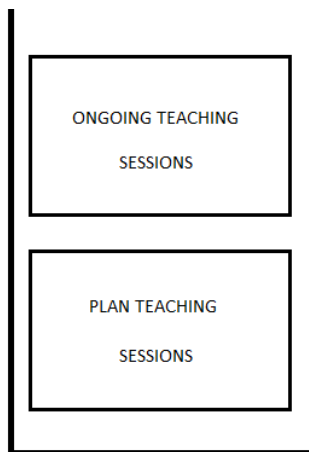
Places of Interest include slum areas, some government primary schools, and some other locations where events can be organized for their betterment such as awareness camps, teaching session for students, fun activities etc. By listing such areas specifically, will help in extending solutions to their specific problems in an effective and efficient manner. There may be different problems in different areas. One can add a new area in the list by clicking onto the 'Add an area' tab which will ask some details such as Location, problems, population etc. about the area. It is shown in the previous page at the right side as its demo layout.

6. Perennial Activities

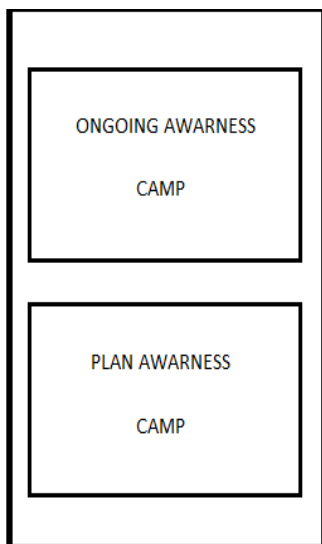


As its name already suggests that activities which run continuously for a longer period. We have added just two activities (for demo purpose) here but more activities can be added further.

It includes those activities which run for a longer period where people can engage themselves voluntarily by organizing teaching sessions and awareness camps at different locations. Teaching at those locations where the children are not able to go to school due to financially or any other problem, organizing camps on various social issues will bring a positive change in the society. According to the demo layout shown above one can choose the option from the given.

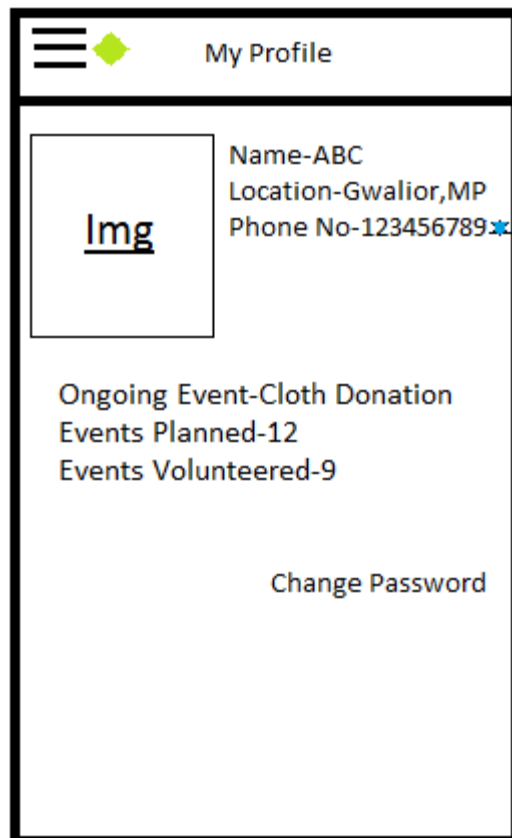


This is the demo of the layout at the left side which will be open after clicking on tab 'Teaching Sessions'. One can view all the planned/ongoing sessions where he/she can be a part of the ongoing session if needed otherwise if anyone wants to plan any teaching session, then he can do so by clicking on tab 'Plan Teaching Session'.

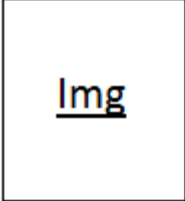



This is the demo layout which will be open after clicking on tab 'Awareness camps'. One can view the on-going awareness camps and can be a part of it. One can also plan any awareness camp by clicking on the tab 'Plan awareness camp'.

7. My Profile



The image shows a mobile application interface for a 'My Profile' page. At the top, there is a header bar with a hamburger menu icon, a green diamond icon, and the text 'My Profile'. Below the header, the main content area is divided into two sections. The top section features a square placeholder for a profile picture labeled 'Img' and a list of user details: 'Name-ABC', 'Location-Gwalior,MP', and 'Phone No-123456789' with an eye icon indicating a toggle for visibility. The bottom section displays event statistics: 'Ongoing Event-Cloth Donation', 'Events Planned-12', and 'Events Volunteered-9'. At the very bottom, there is a 'Change Password' link.

My Profile	
	<p>Name-ABC</p> <p>Location-Gwalior,MP</p> <p>Phone No-123456789 </p>
<p>Ongoing Event-Cloth Donation</p> <p>Events Planned-12</p> <p>Events Volunteered-9</p>	
<p>Change Password</p>	

In this section, the user can check out his status of the events in which he was involved. It will show him the details about the events which he planned and also show him about its volunteered events. Concerning to privacy, the person can hide his phone number and other details from his profile. Besides this, he can add description describing about his social interests and areas of working.

8. Report the Problem

Under this tab if the user find any bug in the app then he can directly send the message to the admin by clicking on this tab so that any further inconvenience can be ruled out.

9. Logout

User can logout his account by clicking on this tab.