

Team 16

NGO Information Management Suite 1.0

Test Plan

Overview:

The test plan is to refer to once the coding on small individual modules of the project is done, so that it is easy to integrate the system with least bugs later on. This is to assist in coordinating software and test versions within configuration management.

Intended Audience:

Mentors
Developers / Coders
Testing Team

Revision History:

Version	Primary Author(s)	Description of Version	Reviewed By	Date Completed
2.0	Aakash		Megha	6 April 2012
1.0	Megha, Palashi, Jatan	1 st Test Plan Report with test features	Aakash	23 Feb 2012

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1. References

The following documents are needed to proceed with the development of an efficient test plan for the product:

- Project Plan - To complete the product development in timely and cost effective manner
- SRS - To clearly comprehend what features are needed by the client/user of the product
- Design Document - High level + Detailed
- Test process standards
- IEEE 829 template

2. Introduction

2.1 Overview of the NIMS:

We aim to develop a web based information management system that takes care of the basic needs of cataloguing a NGO's work, evaluating the NGO's and aid in creating social maps of the population and the area where the NGO is working. This IMS is specifically being designed for an NGO- Vicharta Samuday Samarthan Manch. The NGO works for the rights and welfare of Nomadic (Vicharata) & De-notified (Vimukta) communities and aims to help mainstream these communities by enabling them to fight for their rights. Currently, it is working for 40 Nomadic and De-notified tribes in 8 districts of Gujarat. Their population is nearly 40 million in Gujarat and approximately 800 million in India¹. Looking to the operational needs and administrative convenience the organization registered in the year of 2010. Today VSSM has 7 field staff and 12 Baldosts (School teachers) working around 08 districts of the Gujarat state The IMS will assist the organization to keep a permanent and a well managed record of their data which is right of being taken down on paper, it will also be equipped with several relevant statistical analysis capabilities. The IMS is going to consist of 2 parts (both software and hardware wise):

1. Client application will be with the coordinators of the NGO) for data collection and placing points of interest on the map that would eventually lay out the social map for the NGO.
 2. Server side web interface (at main office of the NGO) for database management and analysis of the collected data.
- Social Maps which is an essential entity for any NGO will now be as extremely accurate with the usage of GPS. Until now the NGO coordinators would draw maps on chart papers with the use of sketch pens. The proposed social mapping

¹ <http://www.vssmindia.org/about-us>

technique will be a revolutionary change in how the NGO creates and uses social maps.

Note: The term volunteer and coordinator mean the same thing for all documents for our project.

2.2 Purpose of the document:

Testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Testing also provides an objective, independent view of the software to allow them to appreciate and understand the risks of software implementation. Test techniques include, but are not limited to, the process of executing a program or application with the intent of finding software bugs (errors or other defects).

Objectives for writing a system test plan are as follows:

- Satisfy the allocated system requirements
- Solve the right problem (e.g., correctly model physical laws, implement business rules, and use the proper system assumptions)
- Satisfy its intended use and user needs.
- Identify which features of the system will be tested.
- Define the pass/fail criteria for each item to be tested.
- Define any suspension criteria and subsequent resumption techniques identify the test deliverables.

2.3. Formal Reviewing:

There will be several formal review points before and during system test.

2.3.1. Formal Review Points

1. Design Documentation
2. Testing Approach
3. Unit Test Plan
4. Unit Test Conditions & Results
5. System Test Conditions

6. System Test Progress

7. Post System Test Review

3. Test Items

We intend to test the following:

- Android application - We need to check that the android application “takes in and stores” data from volunteers, validating volunteer login details, not taking in any wrong format of data (e.g.: should not take characters in contact numbers/ number of members in the family), and that it provides the ability for several volunteers, around 10 to login and feed in data simultaneously. The GPS locator of Android should correctly store location and time details. The application should send the stored data without corruption over the GPRS/3G/WIFI link.
- Server Side web interface- We will check whether data is appropriately updated after android application collects data. It needs to check if there are manipulated data for same families/children and inform the same, without letting the wrong data entry happen. The web interface with access to NGO head only will allow making several changes and show details - in tabular form, in graphical form and also show social maps.

4. Software risk issues

The various risks associated with the testing of this project are

- System hang at server side
- System hang at client side
- Bugs in the android application
- Unwanted results on integration modules
- Failure in receiving the data packets sent by client side
- Data out of memory exception due to overflow in the data base
- Power cut at the server side
- Bugs in the server side web interface
- Log in / Log out errors
- Failure in updating database at the server side database
- Bugs detected in the final system deployment within NGO environment if the theoretical picture of the environmental needs do not match exactly to those in reality.
- Security issues like Database Hacking on the server computer.
- Problematic internet connection between android and server application and hence data updating is slow and not assured.

5. Test Case Format

We intend to present the test cases in the format specified below assuming that each module has several test conditions to be taken into consideration:

Test Case ID
Description
Prerequisite
Expected Output

6. Features to be tested

6.1 Test Cases for Server side Web Interface

Test Case ID 1: Visiting the Web Interface home page

Test Case ID	Description	Prerequisite	Expected Output
1.1	Entering incorrect URL	User uses web browser and has an established internet connection	Browser shows an error message saying 404-Page Not Found OR Another website opens
1.2	Entering correct URL	User uses web browser and has an established internet connection	Browser shows the home page of the web interface

Test Case ID 2: Login on Web Interface

Test Case ID	Description	Prerequisite	Expected Output
2.1	Leaving the Username/Password fields blank and logging	Username and password for the user are stored in the database	Login failed and a message displayed saying Username/Password combination is incorrect

	in		
2.2	Entering invalid/incorrect username/password	Username and password for the user are stored in the database	Login failed and a message displayed saying Username and Password combination is incorrect
2.3	Entering correct username and password	Username and password for the user are stored in the database	Login successful and browser redirects to the Home page of the logged in user

Test Case ID 3: Logout on Web Interface

Test Case ID	Description	Prerequisite	Expected Output
3.1	Logging out by clicking on Logout in the top navigation bar	User is already logged in	User gets logged out and browser redirects to the main home page of the Web Interface with a message saying You have successfully logged out

Test Case ID 4: Communities

Test Case ID	Description	Prerequisite	Expected Output
4.1	Clicking on Communities in the top navigation bar	User is already logged in	A page displaying a list of communities in the database and a bar graph analysis of data
4.2	Clicking on a community listed in the sidebar	User is already logged in and on the Communities default page	A page displaying a pie chart analysis of that specific community's data and some basic community information

Test Case ID 5: Projects

Test Case ID	Description	Prerequisite	Expected Output
5.1	Clicking on Projects in the top navigation bar	User is already logged in	A page displaying a timeline of the projects completed and under progress
5.2	Dragging the timeline to the left/right	User is already logged in and on the Projects default page	The timeline shifts in time displaying the relevant projects of that time
5.3	Clicking on a specific project's timeline	User is already logged in and on the Projects default page	A balloon pops up displaying detailed information about that project like category, place, start time, end time and more

Test Case ID 6: Tabular Data

Test Case ID	Description	Prerequisite	Expected Output
6.1	Clicking on Tabular Data in the top navigation bar	User is already logged in	A page displaying a list of tables and the District Information table
6.2	Clicking on a table listed on the default Tabular Data page	User is already logged in and on the default Tabular Data page	A page displaying the relevant table
6.3	Clicking on a district in the District Information table on the default Tabular	User is already logged in and on the default Tabular Data page	A page displaying the Taluka Information table for that specific district's talukas

	Data page		
6.4	Clicking on a taluka in the Taluka Information table selected for a specific district	User is already logged in and has opened the Taluka Information table for a specific district	A page displaying the Village Information table for that specific taluka's villages
6.5	Clicking on a village in the Village Information table selected for a specific taluka	User is already logged in and has opened the Village Information table for a specific taluka	A page displaying the Settlement Information table for that specific village's settlements
6.6	Clicking on a settlement in the Settlement Information table selected for a specific village	User is already logged in and has opened the Settlement Information table for a specific village	A page displaying the Family Information table for that specific settlement's families
6.7	Clicking on a family head's name in the Family Information table selected for a specific settlement	User is already logged in and has opened the Family Information table for a specific settlement	A page displaying the Member Information table for that specific family's members
6.8	Clicking on an item in the Items Information table	User has already logged in and has opened the Item Information table from the list of tables	A page displaying the Item Distribution Table for that specific item
6.9	Clicking on the Items Distribution table in the list of tables	User is already logged in and on the default Tabular Data page	A page displaying the Items Distribution Table for all items in the database

Test Case ID 7: Settings

Test Case ID 7.1: Change Password

Test Case ID	Description	Prerequisite	Expected Output
7.1.1	Clicking on Change Password in the list of settings on the default Settings page	User has already logged in and is on the default Settings page	A page displaying a form to be filled in to change the password
7.1.2	Leaving the username field blank and saving changes	User has already logged in and has opened the form for changing password	A message that says the password could not be changed and prompts the user to enter username
7.1.3	Leaving the old password field blank and saving changes	User has already logged in and has opened the form for changing password	A message that says the password could not be changed and prompts the user to enter correct old password
7.1.4	Leaving the new password field blank and saving changes	User has already logged in and has opened the form for changing password	A message that says the password could not be changed and prompts the user that the new password and confirmed new password fields do not match
7.1.5	Leaving the confirm new password field blank and saving changes	User has already logged in and has opened the form for changing password	A message that says the password could not be changed and prompts the user that the new password and confirmed new password fields do not match
7.1.6	Entering invalid/incorrect username and saving changes	User has already logged in and has opened the form for changing password	A message that says the password could not be changed as no such username exists
7.1.7	Entering invalid/incorrect	User has already logged in and has opened the	A message that says the password could not be

	ect old password and saving changes	form for changing password	changed and prompts the user to enter correct password
7.1.8	Entering different values in new password and confirm new password fields and saving changes	User has already logged in and has opened the form for changing password	A message that says the password could not be changed and prompts the user that the new password and confirmed new password fields do not match
7.1.9	Entering correct username, old password and valid new password and confirm new password and saving changes	User has already logged in and has opened the form for changing password	A message that says that the password has been changed successfully

Test Case ID 7.2: Add new coordinator

Test Case ID	Description	Prerequisite	Expected Output
7.2.1	Clicking on Add New Coordinator in the list of settings on the default Settings page	User has already logged in and is on the default Settings page	A page displaying a form to be filled in to add a new coordinator
7.2.2	Leaving one or more fields blank in the add new coordinator form and	User has already logged in and opened the form to add new coordinator	A message that says coordinator could not be added and prompts to fill in the relevant vacant field or fields

	adding coordinator		
7.2.3	Entering invalid/incorrect data and adding coordinator	User has already logged in and opened the form to add new coordinator	A message that says coordinator could not be added and guides the user to enter valid and correct data in the relevant field or fields
7.2.4	Entering valid and correct data and adding coordinator	User has already logged in and opened the form to add new coordinator	A message that says coordinator has been added successfully
7.2.5	Entering valid and correct data and pressing Cancel button	User has already logged in and opened the form to add new coordinator	New coordinator is not added and user is redirected to the default Settings page

Test Case ID 7.3: Edit existing coordinator's information

Test Case ID	Description	Prerequisite	Expected Output
7.3.1	Clicking on Edit existing coordinator's information in the list of settings on the default Settings page	User has already logged in and is on the default Settings page	A page displaying a list of coordinators to select from for editing that coordinator's information
7.3.2	Pressing the Select button without selecting any coordinator from the list displayed	User has already logged in and is on the default Edit existing coordinator's information page	A message that says no coordinator selected and prompts the user to select a coordinator
7.3.3	Selecting a coordinator and pressing the Select button	User has already logged in and is on the default Edit existing coordinator's information page	A page displaying a form to edit the coordinator's existing information which is displayed in the form's fields

7.3.4	Leaving one or more fields blank and saving changes	User has already logged in and has opened the form to edit a specific coordinator's existing information	A message that says information could not be edited and prompts the user to enter valid and correct data for the relevant vacant fields
7.3.5	Not editing any information and saving changes	User has already logged in and has opened the form to edit a specific coordinator's existing information	A message that says no information was updated
7.3.6	Editing one or more fields and saving changes	User has already logged in and has opened the form to edit a specific coordinator's existing information	A message that says information was successfully updated
7.3.7	Editing one or more fields and pressing the Cancel button	User has already logged in and has opened the form to edit a specific coordinator's existing information	None of the changes to the information made are saved and user is redirected to the default Settings page

Test Case ID 7.4: Add New Project

Test Case ID	Description	Prerequisite	Expected Output
7.4.1	Clicking on Add New Project in the list of settings on the default Settings page	User has already logged in and is on the default Settings page	A page displaying a form to be filled in to add new project
7.4.2	Leaving one or more fields (except the Project Milestones field) blank and adding project	User has already logged in and has opened the form to add new project	A message that says project could not be added and prompts user to enter valid and correct data in the relevant vacant fields
7.4.3	Entering invalid/incorrect data in the Start	User has already logged in and has opened the form to add new project	A message that says project could not be added and prompts user to enter valid data in correct format

	Date, End Date and/or Settlement Name fields and adding project		
7.4.4	Entering valid and correct data in all the fields and adding project	User has already logged in and has opened the form to add new project	A message that says project is successfully added
7.4.5	Entering valid and correct data in all the fields and pressing the Cancel button	User has already logged in and has opened the form to add new project	New project is not added and user is redirected to the default Settings page

Test Case ID 7.5: Edit existing project's information

Test Case ID	Description	Prerequisite	Expected Output
7.5.1	Clicking on Edit existing Project's information in the list of settings on the default Settings page	User has already logged in and is on the default Settings page	A page displaying a list of projects from which to select one for editing
7.5.2	Not selecting any project and pressing the Select button	User has already logged in and opened the default Edit existing Project's information page	A message that says no project selected and prompts the user to select a project
7.5.3	Selecting a project and pressing the Select button	User has already logged in and opened the default Edit existing Project's information page	A page displaying a form to edit the project's existing information which is displayed in the form's fields

7.5.4	Leaving one or more fields blank and saving changes	User has already logged in and has opened the form to edit a specific project's existing information	A message that says information could not be edited and prompts the user to enter valid and correct data for the relevant vacant fields
7.5.5	Not editing any information and saving changes	User has already logged in and has opened the form to edit a specific project's existing information	A message that says no information was updated
7.5.6	Editing one or more fields and saving changes	User has already logged in and has opened the form to edit a specific project's existing information	A message that says information was successfully updated
7.5.7	Editing one or more fields and pressing the Cancel button	User has already logged in and has opened the form to edit a specific project's existing information	None of the changes to the information made are saved and user is redirected to the default Settings page

Test Case ID 7.6: Change Database

Test Case ID	Description	Prerequisite	Expected Output
7.6.1	Clicking on Change Database in the list of settings on the default Settings page	User has already logged in and is on the default Settings page	A page displaying two forms for adding a new village and adding a new taluka
7.6.2	Leaving the Village/Taluka Name field blank and adding village/taluka	User has already logged in and opened the form for adding new village or taluka	A message that says village/taluka could not be added and prompts the user to enter village/taluka name
7.6.3	Entering valid data in the Village/Taluka Name fields	User has already logged in and opened the form for adding new village or taluka	A message that says Village/Taluka successfully added

	and adding village/taluka		
7.6.4	Entering valid data in the Village/Taluka Name fields and pressing the Cancel button	User has already logged in and opened the form for adding new village or taluka	No new village/taluka is added and user gets redirected to the default Settings page

Test Case ID 8: Social Map

Test Case ID	Description	Prerequisite	Expected Output
8.1	Clicking on Home in the top navigation bar	User has already logged in	The default Home page of the user displaying a social map with option to select from a list of districts
8.2	Selecting a district from the dropdown menu above the social map	User has already logged in and has opened the Home page	The map redirects and focuses on the district selected
8.3	Clicking on any NGO related information markers displayed on the social map	User has already logged in and has opened the Home page	A balloon pops up that displays detailed information about the information marker on which the user clicked

Test Case ID 9: Help

Test Case ID	Description	Prerequisite	Expected Output
9.1	Clicking on Help in the top navigation bar	User has already logged in	A page displaying a list of the sections of Help and the Help
9.2	Clicking on a section of the Help listed on the Help page	User has already logged in and has opened the default Help page	The Help page will scroll down automatically to that specific section in the Help
9.3	Clicking on the Go back to the Top link after each of the sections	User has already logged in and has opened the default Help page	The Help page will scroll up automatically to the top of the Help page
9.4	Clicking on links (present as section headers) to the different pages of the Web Interface	User has already logged in and has opened the default Help page	Each link redirects the user to the relevant page of the Web Interface

6.2 Test Cases for Client side Android Application

Test Case ID 10: Login on Android tablet

Test Case ID	Description	Prerequisite	Expected Output
10.1	Leaving the Username or Password field blank and logging in	User has started the NIMS Android application on the tablet	A message that prompts the user to enter username or password
10.2	Entering invalid/incorrect data in the Username or Password field and logging in	User has started the NIMS Android application on the tablet	A message that says incorrect username or password and prompts the user to enter correct username or password
10.3	Entering valid and correct data in the Username and Password fields and logging in	User has started the NIMS Android application on the tablet	Login successful and user is redirected to the submit campaign information page

Test Case ID 11: Logout on Android tablet

Test Case ID	Description	Prerequisite	Expected Output
11.1	Logging out by clicking on Logout in the	User has already logged in	User is redirected to empty login page

Test Case ID 12: Submit Campaign Information

Test Case ID	Description	Prerequisite	Expected Output
12.1	Leaving the Village/Settlement Name field blank and submitting	User has already logged in	A message is displayed that prompts the user to enter the relevant vacant fields
12.2	Entering valid and correct data in the Village Name and Settlement Name fields and submitting	User has already logged in	User is redirected to the list of ongoing projects' page

Test Case ID 13: Select Project

Test Case ID	Description	Prerequisite	Expected Output
13.1	Selecting a project from the list of NGO's ongoing projects displayed for the specific settlement submitted	User has already logged in and submitted campaign information	User is redirected to the selected project's default page

Test Case ID 14: Family Information**Test Case ID 14.1: Selecting whether family is new or already registered**

Test Case ID	Description	Prerequisite	Expected Output
14.1.1	Clicking on New Family Information	User has already logged in and has selected the Family Information project	User is redirected to a page for submitting new family information
14.1.2	Clicking on View/Edit existing Family's Information	User has already logged in and has selected the Family Information project	User is redirected to a page that displays a list of registered families to select from for viewing or editing their information

Test Case ID 14.2: Selecting type of family information to be viewed/edited

Test Case ID	Description	Prerequisite	Expected Output
14.2.1	Selecting a type of family information to be viewed/edited from a list of types of family information	User has already logged in and has selected the family to be viewed/edited	A page displaying details to view and edit the type of family information selected

Test Case ID 14.3: View/Edit General Family Information

Test Case ID	Description	Prerequisite	Expected Output
14.3.1	View general information of the particular family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village.	Page enlisting various details of the family filled in the new family form
14.3.2	Edit the information displayed	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village.	Form similar to that for the new family with the text boxes filled with existing details which can be changed
14.3.3	Submit edited information	User has already logged in and has selected the family to be viewed/edited in a particular settlement in a village; he/she is presently editing the general information displayed for the family	Redirected back to the page where options for viewing different type of information of the family are given

Test Case ID 14.4: View/Edit Family Member Information

Test Case ID	Description	Prerequisite	Expected Output
14.4.1	View information of all members of the particular family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village.	Page enlisting names of all the members of the family with an option to edit their information
14.4.2	View the selected member's	User has already logged in and has	Page enlisting various details of the member filled in the

	information	selected the family to be viewed/ edited in a particular settlement in a village.	new member form
14.4,3	Edit the selected member's information	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village.	Form similar to that for the new member with the textboxes filled with existing details which can be changed
14.4.4	Submit edited information	User has already logged in and has selected the family to be viewed/edited in a particular settlement in a village; he/she is presently editing the general information displayed for the family	Redirected back to the page where options for viewing different type of information of the family are given

Test Case ID 14.5: View/Edit Identity Cards Information

Test Case ID	Description	Prerequisite	Expected Output
14.5.1	Clicking on identity cards option for the particular family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	List of identity cards is displayed
14.5.2	Clicking on respective card whose data is to be entered/edited	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	Data entry/view page corresponding to each card opens

Test Case ID 14.5.2.1: View/Edit Voter Card Information

Test Case ID	Description	Prerequisite	Expected Output
14.5.2.1 (a)	Viewing member wise voter card information by clicking on voter card option for the particular family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	List of members with the corresponding status of the voter card
14.5.2.1 (b)	Editing and submitting member wise voter card status whether it is to be applied for or issued	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	Redirection to identity cards menu page

Test Case ID 14.5.2.2: View/Edit Ration Card Information

Test Case ID	Description	Prerequisite	Expected Output
14.5.2.2 (a)	Clicking on ration card option for the particular family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	Page giving an option to choose whether the card has to be applied for or is already issued
14.5.2.2 (b)	Choosing to apply for ration card	User has already logged in and has	Page displaying types of ration card to choose from to

		selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	apply for
14.5.2.2 (c)	Viewing/editing information for an already issued card	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	A page is displayed highlighting the type of ration card that has been issued or a default type which can be edited by entering the type of card that family possesses.
14.5.2.2 (d)	Submitting ration card information for a family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	Redirection to the page with the list of identity cards

Test Case ID 14.5.2.3: View/Edit plot Card Information

Test Case ID	Description	Prerequisite	Expected Output
14.5.2.3 (a)	Viewing/editing plot card information by clicking on plot card option for the particular family	User has already logged in and has selected the family to be viewed/edited in a particular settlement in a village. Information for the family and member has been filled.	List of options to view/choose from regarding the ownership rights of the land occupied by the family.
14.5.2.3 (b)	Editing and submitting plot card information	User has already logged in and has selected the family to	Redirection to identity cards menu page

		be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	
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Test Case ID 14.5.2.4: View/Edit Job Card Information

Test Case ID	Description	Prerequisite	Expected Output
14.5.2.4 (a)	Viewing member wise voter card information by clicking on job card option for the particular family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	List of members with the corresponding status of the job card
14.5.2.4 (b)	Editing and submitting member wise job card status whether it is to be applied for or issued	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	Redirection to identity cards menu page

Test Case ID 14.5.2.5: View/Edit Aadhar Card Information

Test Case ID	Description	Prerequisite	Expected Output
14.5.2.5 (a)	Viewing member wise aadhar card information by clicking on aadhar	User has already logged in and has selected the family to be viewed/ edited in a	List of members with the corresponding status of the aadhar card

	card option for the particular family	particular settlement in a village. Information for the family and member has been filled.	
14.5.2.5 (b)	Editing and submitting member wise aadhar card status whether it is it to be applied for or issued	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled.	Redirection to identity cards menu page

Test Case ID 14.6: View/Edit Government Schemes Information

Test Case ID	Description	Prerequisite	Expected Output
14.6.1	Clicking on option of government schemes for a particular family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled	Getting a list of available government schemes for the family under consideration
14.6.2	Viewing/Editing status of scheme for the family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Information for the family and member has been filled	A list of options is displayed highlighting present status of scheme for the family, which can be changed.
14.6.3	Submitting edited status of scheme for the family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in	Redirection to the list of government schemes available for the family

		a village. Information for the family and member has been filled	
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Test Case ID 15: Submit Social Map data

Test Case ID	Description	Prerequisite	Expected Output
15.1	Clicking on the social maps option from the list of ongoing projects of the NGO	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. GPS function of the tablet is enabled and working.	A form to fill in details of place where the coordinator presently is
15.2	Leaving the fields of name and type of place empty	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. GPS function of the tablet is enabled and working.	Display a message saying "Enter name of place"
15.3	Leaving field of type of place empty	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. GPS function of the tablet is enabled and working.	Display a message saying "Enter type of place"

Test Case ID 16: Item Distribution

Test Case ID 16.1: Submit Item Distribution data

Test Case ID	Description	Prerequisite	Expected Output
16.1.1	Clicking on item distribution option from NGO projects page	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Families to whom the items are to be distributed should be registered on the server database.	Form where the item which is to be distributed is to be entered.
16.1.2	Submitting name of item to be distributed	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Families to whom the items are to be distributed should be registered on the server database.	List of families with a field for entering quantity of particular item to be distributed should appear

Test Case ID 16.2: Submitting quantity of particular item distributed

Test Case ID	Description	Prerequisite	Expected Output
16.2.1	Submitting quantity of item to be distributed to each family	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Families to whom the items are to	Redirection to the NGO projects page

		distributed should be registered on the server database.	
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Test Case ID 17: Update Server Database

Test Case ID	Description	Prerequisite	Expected Output
17.1	Clicking on update database option on the home page	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village. Coordinator has filled in the required data in the local database.	Display a message saying "The information is being transferred/has successfully been transferred to the server and the local copy has been deleted." Also redirection to campaign information entry page should occur

Test Case ID 18: Go to Home/NGO's project page

Test Case ID	Description	Prerequisite	Expected Output
18.1	Clicking on home/NGO projects button on the title bar of each page	User has already logged in and has selected the family to be viewed/ edited in a particular settlement in a village.	User is redirected to page listing the ongoing projects of the NGO.

Test Case ID 19: Pressing the Back button on the Android tablet

Test Case ID	Description	Prerequisite	Expected Output
19.1	Pressing the Back button on the Android tablet while using the NIMS application	User has already logged into the NIMS application	User is redirected to the last page opened before the current page in view

7. Test Approach

We will be using the bottom up approach for testing our entire project. We will build the smaller modules and do parallel testing on them functionally at an individual level. We will then integrate them in system and test the system again. The number of increments is three. In each increment the features will be unit tested in the existing system and then their integration testing will be performed with the other features added. This will help in rigorous testing for all the three modules. Regression testing will be conducted if some error/problem occurs in the features

8. Item pass/fail criterion

An item will pass or fail based on the testing phase result. The pass criterion is:

- The output of the feature is exactly the same as the expected output.
- Execution occurs with no errors.
- Update and execution happens in an optimal amount of time that is small for the user experience to go bad.

9. Test deliverables

The following are the test deliverables:

- Test Plan Document
- Test Cases
- Error logs and execution logs
- Problem reports and corrective actions

As we proceed with the coding phase of the project, using the bottom up approach, we will do parallel test checks as per the test plan document.

10. Software and hardware needs

Hardware:

The minimum hardware requirements for the testing are:

- Android and GPRS/WIFI/3G supporting mobile phone/tablet
- Personal Computer/Laptop/Notebook with a working internet connection

Our product has a client-server application and the client side (volunteer in the field) will have to be connected to the server side (NGO's server) using GPRS (or 3G if available). The client side of the application will run on an Android based mobile device which will be used by the volunteers to collect and update data at the server side. On the server side, there will be a server for database management and data analysis (for social mapping) which will have to function properly at all times to ensure the safety and security of the data collected.

Software:

Software	For
Microsoft Office Project 2003 Project	Planning and Management
Eclipse IDE	Developing android application
Android Emulator plug-in	Android Application Testing
MySQL	Database Management
WAMP, LAMP	Testing and implementing PHP scripts

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11. Responsibilities

Name	Role	Responsibility
Aakash	Test Lead	Test cases report Complete test phase report
Lalit	Test planner	System test plan (Server Side) Test case design
Anshul	Test planner	System test plan (Android Application) Test Case Design
Palashi	Tester	Test case design

12. Schedule

Following is the list of tests scheduled to be performed on the intended product per each increment as and when they are ready:

1. Unit Testing: This will be done by all the coders on the specific unit that they develop and hence will be done simultaneously and independently after each unit is coded.
2. Regression Testing: This will be performed for each module (like android app, server interface, etc.) when setup and run as a combination of several units.
3. Integration Testing: This will be performed over the entire system being run as a whole.

Following are the tests that are scheduled to be performed on the final version of the product that will be delivered as a finished and full proof system to the NGO:

1. Alpha and Beta Testing: This phase is intended to start a day after the integration testing of the final deliverable system is done per each increments and also after the final increment is ready for dispatch.

13. Planning Risks

The overall risks to the project are as under,

- Lack of personnel resources when testing is to begin.
- Lack of availability of required hardware, software, data or tools.
- Late delivery of the software, hardware or tools.
- Delays in training on the application and/or tools.
- Changes to the original requirements or designs.

Other possible risks can be,

1. Requirement definition will be complete by 13th February, 2012, but if the requirements change after that, any of the following may be the consequences:
 - The scope of the plan may change.
 - Cost of the project may change and hence cost reviewing and approving will be needed.
 - The number of tests performed might be reduced or number of allowable defects might be increased.
 - Test schedule and development schedule may be shifted accordingly.
2. Team member/s not able to deliver on time due to unforeseen reasons, then following consequences may imply:
 - Other members might have to deliver and work more to fill in for the non performing members.
 - Team co-ordination can become imbalanced.
 - Quality of the product can suffer, so can delivery in time.

14. Glossary

Test No: Signifies the serial number of test case in a particular module.

1.1 - Signifies test case 1 for 1st module (Android Application)

2.1 - Signifies test case 1 for 2nd module (Server Database and CMS)

Pre-requisite: Condition that must satisfy before the test is conducted.

Test Data: Data that is processed during test run.

Expected Output: The result that is ideally expected out of test run.