E-Gram Seva

Project Plan v1.0

Team 22
January 26, 2013

REVISION HISTORY

Version	Author	Date
Version 1	Surbhi Singhal, Karan Makim, Krish Mahajan	January 26, 2013
Review Version 1	Sahil Sikka	January 27, 2013

CONTENTS

1. Overview……..….4

1.1 Origin of Problem……..…….4
1.2 Technical Relevance……..……4

2. Goals and Project Scope…….....4

2.1 Aim…….....4
2.2 Present Scope……...4

3. Project Deliverables……..5

4. Organization……...….5

4.1 Coordinating Team……..5
4.2 Receivers……...……...7
4.3 Schedule and Milestones…....7

5. Budgeting……8

6. Communication and Reporting…….…….8

7. Risk Management……..….9

8. Project Monitoring and Quality Control……..……10

8.1 Meetings within the group…….....8
8.2 Quality Control…….8
8.3 Requirement Management..……8

1. Overview

Researchers have long been interested in the potential of ICTs to enable positive change in developing rural India. In these environments, ICT interventions often fail because political, social and cultural forces work against the changes ICTs entail. We focus on India's rural region where villagers face challenges due to resistance to change in the village, and because of their limited education, training and status. As a consequence, villagers are often deprived of latest information relevant to their businesses. These factors appear to reduce the motivation of their development and impair their performance in their respective occupation. With these rural challenges in our perspective, we aim to design a business model to provide cellular SMS service's to rural population pertinent to their interests. The SMS service will deliver information such as latest prices of agricultural products, weather information and health care. A village person will be empowered to subscribe to various categories and will be frequently updated with latest information in these fields through SMS service .We intend to deliver the content of the SMSs in respective native languages only. We will also provide a website, in case, the villages have a cyber café nearby, it can be accessed for obtaining detailed information that cannot be provided through messages.

2. Goals and Project Scope

2.1 Aim

The potential client of the software is a rural development organization (Government or Non-Government Organization). The software aims at facilitating the organization to reach the mass of rural population not able to access internet, and providing them with the related and concerning information in their regional language through mobile phones, which is now a common thing amongst the rural mass (especially farmers). Also, as a future scope of replying to the queries of the villagers, the problems faced by the villagers to get relevant answers from relevant people easily is addressed by the use of the software. The villagers are benefitted with the easy access to information , and the organizations are benefitted by the easy contact to the villagers and addressing their problems , by providing them updated information (automatically) that the villagers have subscribed to as well as reply to their problems(automatically – which is a future aspect).

2.2 Present Scope

Our website and SMS service aims to provide agriculture-related news like prices of grains, weather information and healthcare to the villagers (end users) specifically. Facilitating governmental and non-governmental organizations to provide information to the villagers and spread awareness among them. Some of the data can be directly

extracted from newspaper sites, journals etc. Special announcements can be updated on website manually. In this way, it serves as cheap and effective way of providing information. The software will consist of three main parts:

- User Application: a website for easy registry and receipt of data apart from the basic mobile phone as a tool to users not having mobile internet or system with internet.

- Client application: For the N.G.O. to manage/ modify the services

- Generic public website (which will be test-implemented for the client NGO) to let subscribers knew their query in more detail ,the generic format of the website gives options to customize the settings and information displayed on the website according to subscribers specific needs.

3. Project Deliverables

The deliverables will include:

- Project Proposal
- Feasibility Report
- Project Plan
- SRS
- SDS
- Product
- User Manual
- Quality Assurance
- Risk Management
- Design Documents
- Test Cases
- Test Reports

4. Organization

4.1 Coordinating Team

Names	Roles	Responsibilities
Karan Makim	Team Leader	• Project management. • Review Documents. • Monitor project progress. • Interface Designing

		• Risk analysis • Coding • Interview • Requirement Gathering • Cost Estimation
Biman Gujral	Team Member	• Coding • Review documents • Interview • Requirement gathering • Feasibility study • Database Design • Research
Surbhi Singhal	Team Member	• Documenting • Feasibility study • Requirement gathering • Documenting • Interface Design • Test Plan • User Manual
Sahil Sikka	Team Member	• Coding • Review documents • Research • Feasibility Study • Database Desgn • Test Plan • Requirement gathering
Krish Mahajan	Team Member	• Coding • Requirement gathering • Feasibility Study • Interview • Documenting • User Manual
Aayushi Sharma	Team Member	• Monitor project progress. • Documenting • Feasibility Study • Requirement gathering • Interview • User Manual • Test Plan
Abhishek Shukla	Team Member	• Documenting • Feasibility Study • Requirement gathering

		• Database Design • SRS • Interface Design
Rutvik Jhala	Team Member	• Interface Design • Documenting • Interview • Requirement gathering • SRS • Research
Siddharth Vadnagra	Team Member	• Interface Design • Documenting • Interview • Requirement gathering • SRS • Feasibility Study

4.2 Receivers

Yuva Unstoppable has agreed to be a potential client of our software and use it for their rural development activities.

4.3 Schedule and Milestones

S. No	Tasks	Deliverables	Proposed Deadline
1.	Finalizing a project idea	Project Topic	12th Jan
2.	Feasibility study, Pre-proposal research, Proposal making (documenting)	Feasibility Report, Proposal	15th Jan
3.	Planning for the work to be done in course of project, getting a live client	Project Plan	27th Jan
4.	Collecting end-user and client requirements in detail - Requirement documents and revising plan as per requirements before SRS submission		2nd Feb
5.	SRS, User Manual	SRS, User Manual	16th Feb
6.	System, interface, Database Design		24th Feb
7.	Coding (Frontend and Backend)		15th Mar
8.	Testing and final changes(total)		22th Mar

9.	Final		30st March

5. Budgeting

Product	Approximate Budget (INR)
Modem	1000
Sim Card	50
Web Hosting	200/Month
Desktop/Laptop(Windows OS, Net facility-1 year)	30,000
Total Cost	200 x no. of months the software is deployed+31,050

Software Engineering Phase/Work Product	Total person-hours (approx.)
Project Proposal and Feasibility	15
Project Planning	50
Requirement Phase	180
Design Phase	45
Implementation	150
Testing	24
Deployment	4
Total	468

6. Communication and Reporting

Type of Communication	Method / Tool	Frequency/ Schedule	Information	Participants/ Responsibilities
Internal Communication				
Project	Face to face	2 days per	Project status,	Team Leader, Team

Meetings		week Approx.	problems, future plans	members
Sharing of project data	Mailing list, cloud based document services.	When available	All project documentation and reports	Team Leader, Team Members
Milestone Meetings	Face to face	Before milestones	Project status	Team Leader, Team members
External Communication				
Meetings with TA	SEN LAB	Every Tuesday	Guidance	Team Leader, Team members
Product Testing with client	Face to Face	At the end of the Project	Final product	Team Leader, Team members, Clients

7. Risk Management

Foreseeable Risks	Management Strategies
Sudden requirement of a third party software tool or other technical resources causing unexpected expense.	Prior planning of the needed system resource and applications.
Sudden crash of server or loss of important data and information	The administrator will periodically take back-up of data to overcome such problems.
Unexpected holidays by team members.	If possible, inform such occurrences beforehand so that the work can be assigned to some other peer.
Due to lack of knowledge, user may enter an invalid input	We will provide appropriate exception handling routines so that the application does not crash.
Difficulties in implementation	An extensive class of unit test cases into every category emphasizing on exclusivity of functions.

Security issues relating to access of unauthorized data	Ensure that there are no loop holes in the code causing privilege violations.
Emphasis on irrelevant functionalities	A timely and thorough research on user requirements will lead the project to a proper direction.

8. Project Monitoring and Quality Control

8.1 Meetings within the group

Minimum two meetings will conducted every week and a track of minutes of the meeting will be properly kept by documenting them. This will keep the entire group aware about the progress of the project and accordingly the planning can be done. Also, sub-groups will be allotted who will handle different modules of problem and work on them separately.

8.2 Quality Control

To maintain the quality of each work product, the deliverable will be reviewed by the team-members other than the authors. Through thorough survey, questionnaire and interviews, the quality if the user manual will be ensured. The team members will try to design an interface that is user-friendly. In the coding phase, proper coding conventions will be followed.

8.3 Requirement Management

The SRS will contain all the requirements found out in requirement phase. This document will be timely reviewed and updated according to the need of the project.