E-Gram Seva

Project Plan v2.0

Team 22
April 1, 2013

REVISION HISTORY

Version	Author	Date
Version 1	Sahil Sikka, Krish Mahajan	January 26, 2013
Review Version 1	Karan Makim	January 27, 2013
Version 1.1	Sahil Sikka, Krish Mahajan	January 30, 2013
Review Version 1.1	Karan Makim	January 31, 2013
Version 2.0	Surbhi Singhal, Karan Makim, Krish Mahajan	April 1, 2013
Review Version 2.0	Sahil Sikka	April 1, 2013

CONTENTS

1. Overview

1.1 Origin of Problem

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 services to rural population pertinent to their interests. The SMS service will deliver information such as latest prices of agricultural products, weather and health care bulletins on a regular basis. A village person will be empowered to subscribe to various categories such as farming, jobs, healthcare, education etc. & will be frequently updated with latest information in these fields through SMS service. We intend to deliver the content of the SMS in respective native languages only.

1.2 Technical Relevance

If certain assumptions are made (realistically) we can justify the technological relevance of the proposed system. The fact of the telecom boom in India and that each day more and more villagers are acquiring cellular phones at almost every corner of India enables us to think of a business which would be easily accessible through them. Thus an SMS service seems to be a desirable choice for cost-effectiveness and user friendliness.

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 SMS service aims to provide agricultural related news like prices of grains, weather forecast and healthcare policies 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. and rest part can be updated on website manually. In this way it serves as cheap and effective way of providing information. The software will also consist of a website (which will be test-implemented for the client NGO) to let subscribers get information in more detail, 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
- System Test Plan
- Quality Assurance
- Risk Management
- 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 Design • Test Plan • Requirement gathering
Krish Mahajan	Team Member	• Coding • Requirement gathering • Feasibility Study • Interview • Interface Design • 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 • Interview • Feasibility Study • Requirement gathering • Database design • Testing
Rutvik Jhala	Team Member	• Database Design • Documenting • Interview • Requirement gathering
Siddharth Vadnagra	Team Member	• Interface Design • Documenting • Interview • Requirement gathering • 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	January 12
2.	Feasibility study, Pre-proposal research, Proposal making (documenting)	Feasibility Report, Proposal	January 15
3.	Planning for the work to be done in course of project, getting a live client	Project Plan	January 27
4.	Collecting end-user and client requirements in detail - Requirement documents and revising plan as per requirements before SRS submission		February 2
5.	SRS , User Manual	SRS, User Manual	February 18
6.	System , interface , Database Design	SDS	February 25
7.	Coding(Frontend and Backend)	Source Code	March 28
8.	Testing and final changes(total)	Software	April 3
9.	Final	Deployment	April 5

5. Budgeting

Product	Approximate Budget (INR)
Modem	1000
Sim Card	50
Daifaan sms server license	$195
Visual Web Ripper license	$299
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+$195+$299

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 Meetings	Face to face	2 days per week Approx.	Project status, problems, future plans	Team Leader, Team 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.
Loss of motivation is included in the risk management	Division of has been done in such a way that the interest in the respective field, of an individual has been taken into account.

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.