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| E-Gram Seva |
| Project Plan v1.0 |
| Team 22 January 26, 2013 |

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**REVISION HISTORY**

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

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**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**

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| **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**

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| --- | --- | --- | --- |
| **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**

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| **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 |

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| **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**

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| --- | --- | --- | --- | --- |
| **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**

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| **Foreseeable Risks** | **Management Strategies** |
| 1. Sudden requirement of a third party software tool or other technical resources causing unexpected expense. | Prior planning of the needed system resource and applications. |
| 2. Sudden crash of server or loss of important data and information | The administrator will periodically take back-up of data to overcome such problems. |
| 3. Unexpected holidays by team members. | If possible, inform such occurrences beforehand so that the work can be assigned to some other peer. |
| 4. 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. |
| 5. Difficulties in implementation | An extensive class of unit test cases into every category emphasizing on exclusivity of functions. |
| 6. Security issues relating to access of unauthorized data | Ensure that there are no loop holes in the code causing privilege violations. |
| 7. 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.