

E-Gram Seva

# System Requirement Specification v1.0

Team 22

February 16, 2013

## REVISION HISTORY

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Version 1	Karan Makim, Surbhi Singhal, Biman Gujral	February 16, 2013
Review Version 1	Krish Mahajan, Sahil Sikka	February 17, 2013

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# 1. Introduction

## 1.1 Purpose

The SRS document is a key element in the requirement phase of the software development cycle. It is a milestone for the product developer as they advance into subsequent activities. The systematic documentation of functional, non-functional, performance requirements serves as a guide in designing, coding and testing of the software, thus optimizing the development efforts. SRS establishes the basis for agreement between the client and the developing organization on what the software product will do thereby ensuring that they are on the same page in understanding the product.

## 1.2 Scope

Our web based application aims to provide agriculture related news like prices of grains, weather forecast and, in addition, health-care updates easily available to the villagers (end users) specifically. This will facilitate governmental and non-governmental organizations to provide information to the villagers and spread awareness among them. Data will be directly extracted from newspaper sites, journals etc. automatically. In this way it serves as cheap and effective way of providing information. The software will consist of a website to let subscribers know news in greater detail. The format of the website gives options to customize the settings and information displayed on the website according to subscribers specific needs. Clients have master account to administer the website.

## 1.3 Document Convention

S No	Conventions	Metrics	Inference
1	<b>[Heading]</b>	Font size: 16 Font type: Arial Font style: Bold	Heading
2	<b>[Heading]</b>	Font size: 12 Font type: Arial Font style: Bold	Sub-Heading
3	[Heading]	Font size: 12 Font type: Arial Font style: Regular	Sub-Sub-Heading

4	[Heading]	Font size: 11 Font type: Arial Font style: Regular	Body
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## 1.4 Clients and Stakeholders

### 1.4.1 Clients

The client of our project will be the NGO – Yuva Unstoppable based in Ahmedabad with core focus on youth empowerment, education reformation, knowledge sharing and value based activity.

**Client Details:** Our Client is an N.G.O. by the name "Yuva Unstoppable". The details of the person in-charge for the communication with our development team are given below:

**Name:** Mr. Rishi Kumar Pandya

**Occupation:** Operations Head, Yuva Unstoppable (Gandhinagar)

**Contact Details:**

Tel Number: +091-97230-10958

E-mail address: positiverishikumar@gmail.com

### 1.4.2 Stakeholders

The main stakeholders of this project are as follows:

- The end users: the villagers.
- The client (Yuva Unstoppable)
- Donors of the NGO
- Course Instructor
- The developers of this project: Team 22 of the SEN project group, B-Tech 2010, DA-IICT

## 1.5 References

- Software Engineering, A Practitioner's Approach, Roger S. Pressman, 5th Edition, McGraw-Hill Computer Science Series
- Prof. Asim Banerjee, IT-314 Software Engineering, Lecture Slide 4, Winter 2012-13, DA-IICT

## 1.6 Definitions, acronyms and abbreviations

### **SRS**

System Requirement Specification

A software requirements specification (SRS) is a comprehensive description of the intended purpose and environment for software under development. The SRS document addresses the functional requirements, performance requirements, formats of the inputs and outputs and design constraints (due to political, economic, environmental and security reasons).

### **GUI**

Graphical User Interface

A graphical user interface (GUI) is a human-computer interface (i.e., a way for humans to interact with computers) that uses windows, icons and menus and which can be manipulated by a mouse (and often to a limited extent by a keyboard as well).

### **SMS**

Short Message Service

Short Message Service (SMS) is a text messaging service component of phone, web, or mobile communication systems, using standardized communications protocols that allow the exchange of short text messages between fixed line or mobile phone device.

**KDLOC:** Kilo Delivered Lines of Code

**PHP:** Personalized Home Page

**DA-IICT:** Dhirubhai Ambani Institute of Information and Communication Technology

**WWW:** World Wide Web

**HTML:** Hyper Text Markup Language

**HTTP:** Hyper Text Transfer Protocol

**WAMP:** Windows Apache MySQL PHP

## 1.7 Tools and Technologies Used

### 1.7.1 Tools

- DreamWeaver: For developing the website

- WAMP: For MySQL database, PHP interpreters and HTML server
- Ozeki: For sending and receiving messages on a mobile phone connected to a computer
- Visual Web Ripper: For extracting information from the websites
- Google Drive: For team coordination and sharing documents
- MS Word, Adobe Reader: For documentation
- Web Browsers: For testing and running the website
- RUP: Rational Unified Process, understanding of software development methodologies

### 1.7.2 Technologies

- HTML: HyperText Markup Language, used for website development
- CSS: Cascading Style Sheets - Technology used to format and style all pages
- JavaScript: Required for website development
- Google Translate API: For translating the messages and website content

## 2. Overall Description

### 2.1 Existing Systems

- **Krishi Jagat**  
After interviewing villagers, we came to know that much of their information regarding agricultural activities and current affairs comes through this monthly magazine. The subscription costs them rupees 60. It is provided under respective state government scheme
- **M-Krishi**  
It is a mobile phone based advisory service to the farmers on matters pertaining to farming which includes weather reports, pest control, soil quality, current prices of grains in the market etc. It allows farmers to send personal queries via SMS or through a video clip which are then processed and solved through this software. M-Krishi also caters to others organization like government organization or research related organizations which require current trends and know-how of agriculture in the country. This M-Krishi software is in implementation stage in only some parts of Maharashtra.
- **Krishi-Darshan**  
It is a television serial broadcasted on the Doordarshan channel. In this show they invite some experienced and trained people in agricultural field to answer the problem of farmers telephonically. Also they discuss issues and general problems



faced by the farmers. As it is of one hour duration, not all phone calls are received and answered. Also due to limited supply of electricity they are unable to view the show and take advantage of this.

Although the above listed systems are helpful they do not provide the user with information that is updated on a daily basis like weather information and market trends. Also M-Krishi is a paid service which is only operable in limited regions which does not include Gujarat. Hence our service will cater to these shortcomings.

## **2.2 Product Perspective**

To help the rural folk, we plan to develop a web application which would automatically send daily updates regarding categories subscribed by them. The categories are related to agricultural seeds prices, weather information and healthcare. Since villagers hardly have internet connection, the daily updates will be sent as short message services (SMS) to their mobile phones which can be found in every villager's hands. The villagers can subscribe to one or more type of updates from among a provided set of categories, in their native language. Our system aims to reduce the burden on farmers.

## **2.3 Product Boundaries**

The product is intended to be released in the villages around Ahmedabad and Gandhinagar initially. Hence, the weather information and prices to be sent will be in accordance with this region only.

## **2.4 User classes and characteristics**

The user class can be differentiated into client and end user.

The client, basically a non-governmental organization (NGO) would be responsible for managing and providing services using the software developed.

The end users comprise of villagers, chiefly farmers. It is evident from the interaction with a sizeable group of farmers, majority of them own a mobile phone and have knowledge of the basic functionalities like reading and sending messages in native languages.

## **2.5 Operating Environment**

The operating environment requires a machine with an operating system- Windows XP(with SP3)/2003/2008/Vista/7, .NET v4 and Internet explorer v8 or later.

## 2.6 Suggested Deliverables

Following is the list of deliverables we will submit to the client along the course of the project:

- **Software Requirement Specification (SRS):** The purpose of this SRS document is to state the identified requirements and functionalities for e-gram seva.
- **Use cases:** Use cases tell a stylized story about how an end user interacts with the system under the specific environments through diagram which overview the usage requirements for a system.
- **System Test Plan:** The Software Test Plan is designed to prescribe the scope, approach, resources and schedule of all testing activities.
- **System Design specification:** The prime purpose of the Software Design Specification (SDS) is to find the best possible design within the limitations imposed by the requirements and the physical and social environment in which the system will operate.
- **User Manual:** It is a technical communication document intended to give assistance to the end users as well as the client using e-gram seva.
- **Final end product:** It is final product to be handed over to the client.
- **Quality assurance plan:** The purpose of Software Quality Assurance Plan is to define the techniques, procedures, and methodologies that will be used to ensure the timely delivery of the software that meets the specified requirements within project resources.
- **System test report:** This the report containing the results of testing done to ensure that all the modules are functioning as desired and as mentioned in the SRS.

## 2.7 Assumptions

The underlying assumptions taken into consideration in our project are as follows:

- The end user knows how to read SMS in a mobile phone.
- The website from which the data is being extracted provides correct data and is updated regularly.
- Mobile network signal remains stable at the time of sending of SMS.
- The font and languages in which the data is sent are supported on the handset of the end user.

## 3. System Features

### 3.1 SMS Updates

- **Purpose:** To send daily SMS updates to the end users about current market prices of crops, weather information and health-care.
- **Pre-Condition:** The user is registered. At the time of registration for the service, the user states the categories of updates he/she desires. They are sent as per those subscriptions.
- **Input:** The information to be sent through SMS is extracted from the internet and stored in a database.
- **Output:** SMS received on the registered mobile number of the user.

### 3.2 Registration

- **Purpose:** To register the user with the mobile number on which SMS updates are to be sent. They can send an SMS in the prescribed format to register. They can also register on the website so as to obtain a username and password and edit their subscriptions etc. on their personal profile.
- **Pre-Condition:** The user owns a mobile phone and has the knowledge of sending SMS. In case of registering on the website, the user has access to internet and knowledge of its operation.
- **Input:** The user is given a prescribed format to register through message.
- **Output:** The user is registered and his/her details are stored in the database so as to send them SMS updates.

### 3.3 User Account

- **Purpose:** The users accessing the website can create accounts and login using their username and passwords.
- **Pre-Condition:** The user has internet connectivity and knowledge of operating internet.
- **Input:** None.
- **Output:** An account on the website where you can manage your subscriptions.

### 3.4 Forgot Password

- **Purpose:** In case a user forgets his/her password, they can click on this feature on the website.

- **Pre-Condition:** The user must be registered. (have an account on the website)
- **Input:** The user needs to enter his/her mobile number on which a new password will be sent.
- **Output:** The user gets the password on his/her mobile number and can now login.

### 3.5 Change Password

- **Purpose:** After logging into the account, the user can change his/her password using this feature.
- **Pre-Condition:** The user should be registered and logged in on the website.
- **Input:** The old and the new passwords.
- **Output:** The password is changed for that user's account.

### 3.6 Manage Subscription

- **Purpose:** Edit the categories of SMS updates to which one is subscribed.
- **Pre-Condition:** The user should be logged into his/her account.
- **Input:** Choose the categories.
- **Output:** Get subscribed to the desired categories. SMS updates would now be received for the new categories.

### 3.7 Language

- **Purpose:** The user can choose between Hindi, English and Gujarati languages to view the website. Also, the SMS sent to the user's mobile phones are in Hindi/Gujarati.
- **Pre-Condition:** It is assumed that the language and font are supported on the handset of the end user.
- **Input:** None.
- **Output:** The website content would be displayed in the language chosen.

### 3.8 FAQ

- **Purpose:** Users can view this section in case of any queries or difficulties.
- **Pre-Condition:** None.
- **Input:** None.
- **Output:** Users will get ready support.

## 4. External Interface Requirements

### 4.1 User Interface

The user interface in the case of the website will be as simple as possible. It will have end-user login, through which he can manage his subscriptions by adding or removing subscriptions. The results/articles/data pertaining to the user's subscriptions will be displayed completely on the main page of his/her account. In the admin's account, the statistics pertaining to the services will be displayed for the admin account. The website is multilingual.

The SMS content will be in the native languages and sent according to the respective subscriptions.

### 4.2 Hardware Interface

The **end-user** accesses the services through the website and mobile phones. Mobile phones require having the basic functionality of SMS i.e. sending, receiving and displaying messages. For using the website, no specific OS or storage requirements are required.

Any machine with good internet connection will do.

At the **client side** who is running the software to provide these services:

The modem connected to the system for sending the SMS will require maintenance, since it is a key component to the service.

A registered sim card is required whose validity expiration is taken care of.

The system should have the following minimum requirements:

- Intel Pentium 4 or above
- 256 MB RAM or above
- Disk Space enough for database storage

### 4.3 Software Interface

The end user can use a mobile phone with any operating system. It needs to only have the basic functionality of SMS. Also, for accessing the website, he/she can use an device with a web browser and internet connection.

#### Client Side

- The OS involved is Windows (XP/Vista/7/8) for the main system and platform independent for the mobiles.

- The website follows the standards and will run independent of the browser being used (e.g.: Mozilla Firefox, Google Chrome, Internet Explorer). The browser should be compatible with the OS.

#### **4.4 Communication Interface**

- The messages are transferred using the telecom service of SMS.
- HTTP is the underlying protocol used for the operation of the website.

## **5. Non-Functional Requirements**

### **5.1 Performance Requirements**

- The software would require a dynamic database to be updated on a regular basis. Efficient storage of database on the disk is required.
- The network connectivity on the mobile device of end users is a necessity for the service to perform as expected.
- The website from which information is extracted has updated information and is working and up.
- The website will be designed keeping in mind that the response time does not suffer.

### **5.2 Maintainability**

- Some alternative sources of information will be listed, in case the primary website used for extracting information to send is not working.
- All steps of web development should be well documented to ensure maintenance of the product through life time. The software should be divided into well-defined modules for efficient error detection and correction.
- Admin will be given the rights to make changes or add announcements to be sent through messages.

### **5.3 Reliability Requirements**

- The information sent through messages is gathered from the updated journals and various authenticated sites. Hence, it is reliable.
- Ours is a free service, and there is no money or information of private nature involved, hence security is not imperative.
- Based on our assumption, network and SMS gateway is reliable to send and receive messages.

## 5.4 Portability

- The end users must possess mobile phones for receiving the updates. The application works sound irrespective of the operating system employed on the phone.
- For the website, any device with a web browser and internet access is required.

## 5.5 Usability

- As found out through the interviews with the villagers during requirement study, majority of them own a mobile phone and have knowledge of using the SMS service.
- The design and navigation of the website is also kept simple.

# 6. Traceability Matrix

## 6.1 Definition

A traceability matrix is a document which is used to map the requirements and the test cases. It checks to what extent the test cases cover the requirements as stated in the features which need to be tested before handing over the final software.

## 6.2 User Entities

User Identifier	User Entity
U1	End User (Villager)
U2	Client(N.G.O.)

## 6.3 Functional Requirements

Unique Identifier	Functional Requirement
R1	Receive SMS
R2	Register
R3	User Account

<b>R4</b>	Forgot password
<b>R5</b>	Change Password
<b>R6</b>	Language
<b>R7</b>	FAQ
<b>R8</b>	Manage Subscriptions(admin)
<b>R9</b>	View statistics
<b>R10</b>	Manage Subscriptions(general)

#### 6.4 Traceability Matrix

	<b>U1</b>	<b>U2</b>
R1	•	
R2	•	•
R3	•	•
R4	•	•
R5	•	•
R6	•	•
R7	•	
R8		•
R9		•
R10	•	



## APPENDIX

We had the following questionnaire prepared before visiting the rural areas of Lavarpur, Ratanpur and Sarghasan. We explained them about our project and the ways in which it would be helpful to them. We asked our questions to villagers with different backgrounds so that we get to know their different needs and an overall feedback. The questions and their responses from eight different villagers are listed below. The answers have been translated into English.

### Set 1:

- What is your name?  
Duraji Somaji Bhai
- What is your profession?  
I am a farmer.
- Which crops do you grow?  
My main crops are bajra and brinjal
- Do you know how to read and write?  
Yes, I know two languages Hindi and Gujarati.
- Do you have a mobile phone?  
Yes.
- Do you know how to open and read messages?  
Yes, only if the mobile language is set to either Hindi or Gujarati.
- Do you have Internet connection?  
Yes.
- Do you know how to use the internet?  
No, but my son uses it.
- What type of information do you need?  
I mainly need the information about the new crop breeds that are introduced in the market which would give more yields but need less water and maintenance. The current rates of the crop in the market would also be important information. It would also be helpful if I got weather forecast daily.
- Where do you get the information you need presently?
  - **Television**
  - **Newspapers**
  - Magazines
  - Non- governmental organization

- How frequently do you get your information?
  - Daily
  - Weekly
  - **3-4 Days**
  - Monthly
- What other type information would you like to have in our service?  
Well, the message feature is good enough but if u can add health and jobs information with the agriculture information, it would be nice.
- Can you please give your mobile number so we could contact you in future.  
9913722847
- Any other comments you would like to make regarding this project?  
No.

## Set 2:

- What is your name?  
Kalaji Sankaji Bhai
- What is your profession?  
I am a farmer.
- Which crops do you grow?  
Currently I am growing brinjal.
- Do you know how to read and write?  
I know Gujarati.
- Do you have a mobile phone?  
Yes.
- Do you know how to open and read messages?  
Yes, only if the mobile language is set to either Hindi or Gujarati.
- Do you have Internet connection?  
No.
- Do you know how to use the internet?  
No.
- What type of information do you need?  
I would like to know the different fertilizers that are available in the market because every day new type of fertilizers are coming into market which prove to be more useful than the earlier versions. Also, the selling prices of crops in the market will be helpful.

- Where do you get the information you need presently?

- Television
- **Newspapers**
- Magazines
- Non- governmental organization

Any other \_\_\_\_\_

- How frequently do you get your information?

- **Daily**
- Weekly
- 3-4 Days
- Monthly

- What other type of features you would like to have?

I would like the information about the new products coming for agriculture like improved fertilizers.

- Can you please give your mobile number so we could contact you in future.  
8140972923

- Any other comments you would like to make regarding this project?  
No.

### SET 3:

- What is your name?  
Mangaji Ramaji Bhai

- What is your profession?  
\_I am a farmer.

- Which crops do you grow?  
My main crops wheat (gehu), castor oil plant (arandi) and brinjal

- Do you know how to read and write?  
I know Gujarati.

- Do you have a mobile phone?  
Yes.

- Do you know how to open and read messages?  
Yes, only if they are in Gujarati.

- Do you have Internet connection?  
No.

- Do you know how to use the internet?  
No.
- What type of information do you need?  
I would like to know the weather forecast daily as sometimes the untimely rain proves to be harmful to crop and hence we can take the proper caution. Also, information about the rates of crops in the market will be beneficial.
- Where do you get the information you need presently?
  - Television
  - Newspapers
  - Magazines
  - Non- governmental organization

Any other- I don't have access to newspapers, I just get the information from fellow farmers.

- How frequently do you get your information?
  - Daily
  - Weekly
  - **3-4 Days**
  - Monthly
- What other type of features you would like to have?  
I would like the information about the pesticides as some pesticides harm the crops as well and are damaging to the soil.
- Can you please give your mobile number so we could contact you in future?  
9714130547
- Any other comments you would like to make regarding this project?  
Yes, please complete this project fast as it can really be helpful to us.

#### SET 4:

- What is your name?  
Katrabhai Nathabhai Bhai
- What is your profession?  
I am a farmer.
- Which crops do you grow?  
My main crops wheat (gehu) and castor oil plant (arandi).

- Do you know how to read and write?  
I know to read Gujarati.
- Do you have a mobile phone?  
No.
- Do you know how to open and read messages?  
No.
- Do you have Internet connection?  
No.
- Do you know how to use the internet?  
No.
- What type of information do you need?  
I would like to know about the new seeds coming in the market.
- Where do you get the information you need presently?
  - **Television**
  - Newspapers
  - Magazines
  - Non- governmental organization
- Any other- \_\_\_\_\_
- How frequently do you get your information?
  - Daily
  - **Weekly**
  - 3-4 Days
  - Monthly
- What other type of features you would like to have?  
I would like the information about health-care and the hospitals which are nearer for treatment  
.
- Can you please give your mobile number so we could contact you in future?  
-NA-
- Any other comments you would like to make regarding this project?  
No.

## SET 5:

- What is your name?  
Mukesh Bhai
- What is your profession?  
I am a farmer.
- Which crops do you grow?  
My crops are cotton (kapas), wheat (gehu), brinjal, long gourd (dudhi), lady finger (bhindi), bajra, jowar.
- Do you know how to read and write?  
I know Gujarati and Hindi.
- Do you have a mobile phone?  
Yes.
- Do you know how to open and read messages?  
Yes.
- Do you have Internet connection?  
No.
- Do you know how to use the internet?  
No.
- What type of information do you need?  
I would like to know about the temperature variation daily, rainfall expected during that particular year, market rates and the different seeds available. They use Mahyco's seeds currently.
- Where do you get the information you need presently?
  - Television
  - **Newspapers**
  - **Magazines**
  - Non- governmental organization

Any other- In Sandesh newspaper weekly agriculture column is published and Krishi Jeevan magazine is also helpful.

- How frequently do you get your information?
  - Daily
  - **Weekly**
  - 3-4 Days
  - Monthly
- What other type of features you would like to have?  
A more frequent supply of information regarding agriculture as stated above would be good.
- Can you please give your mobile number so we could contact you in future?

9428736905

- Any other comments you would like to make regarding this project?  
No.

#### SET 6:

- What is your name?  
Suresh Bhai Patel.
- What is your profession?  
I am a farmer.
- Which crops do you grow?  
My crops are wheat (gehu), jowar, kapas (cotton), castor oil plant (arandi).
- Do you know how to read and write?  
I know Gujarati.
- Do you have a mobile phone?  
Yes.
- Do you know how to open and read messages?  
Yes.
- Do you have Internet connection?  
No.
- Do you know how to use the internet?  
No.
- What type of information do you need?  
I would like to know the changing market trends of the vegetable rates on a daily basis.
- Where do you get the information you need presently?

- **Television**
- **Newspapers**
- Magazines
- Non- governmental organization

Any other- Also, from GIFT city (Udhyog Bhawan) and Krishi Vibhag Karyakram (Program on TV).

- How frequently do you get your information?
  - **Daily**
  - Weekly

- 3-4 Days
- Monthly
- What other type of features you would like to have?  
I would like the information about weather.
- Can you please give your mobile number so we could contact you in future?  
9824575272
- Any other comments you would like to make regarding this project?  
No.

## SET 7:

- What is your name?  
Mahesh Bhai
- What is your profession?  
I am a farmer.
- Which crops do you grow?  
My crops are wheat (gehu), castor oil plant (arandi), long gourd (dudhi) and brinjal
- Do you know how to read and write?  
I know Gujarati.
- Do you have a mobile phone?  
Yes.
- Do you know how to open and read messages?  
Yes,
- Do you have Internet connection?  
No.
- Do you know how to use the internet?  
No.
- What type of information do you need?  
would like to know about the information regarding the medicines, diiferent pesticides and fertilizers used for farming.
- Where do you get the information you need presently?
  - Television
  - **Newspapers**
  - Magazines
  - Non- governmental organization



Any other-\_\_\_\_\_.

- How frequently do you get your information?
  - Daily
  - Weekly
  - **3-4 Days**
  - Monthly
- What other type of features you would like to have?  
The basic information would be good enough.
- Can you please give your mobile number so we could contact you in future?  
9824575272
- Any other comments you would like to make regarding this project?  
No.

#### SET 8:

- What is your name?  
Rohit Bhai
- What is your profession?  
I am a farmer.
- Which crops do you grow?  
My crops are wheat (gehu), bajra, cotton (kapas) and brinjal.
- Do you know how to read and write?  
I know Gujarati.
- Do you have a mobile phone?  
Yes.
- Do you know how to open and read messages?  
Yes.
- Do you have Internet connection?  
No.
- Do you know how to use the internet?  
No.

- What type of information do you need?  
I would like to know about the seasonal changes in the prices of vegetables.
- Where do you get the information you need presently?
  - Television
  - **Newspapers**
  - Magazines
  - Non- governmental organization

Any other-\_\_\_\_\_.
- How frequently do you get your information?
  - **Daily**
  - Weekly
  - 3-4 Days
  - Monthly
- What other type of features you would like to have?  
The rainfall forecast for everyday would be very useful.
- Can you please give your mobile number so we could contact you in future?  
9824575272
- Any other comments you would like to make regarding this project?  
I look forward to use your service.