

# KrishiConnect

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**Abstract**—The main objective of this project is to build a web service application which will help farmers from Indian villages to sell their goods to different cities. Any farmer can use this facility to sell his stock.

This project will help farmer to find potential buyer for his farm goods at the same time he can look for farming tools & different things that he will need in his farm while farming. Similarly a Retailer and Dealer can also register themselves on this website where Retailer can find raw material & Dealer can find customers for his farm related goods.

This project includes Graphical GUI with less dependency on language issues to make system most user friendly for farmers from all regions. Also there is no need for farmers to check their profile for notification related to trading as this notification will be sent directly on farmer's mobile phones as SMS.

Basically this will help farmers to get close to retailer and dealers who are unknown to each other. Also Farmer and buyer can communicate with each other by notification, sending messages and message notification will be sent on his mobile phone. The messages will be in either English or Hindi as per user's choice for both sending and receiving. This will help farmers to communicate directly with the stock buyers hence increasing the profit for both the parties. The information provided by the system will be in user-friendly form, easy to access, cost-effective and well protected from unauthorized accesses.

## I. INTRODUCTION

The aim of the project is to develop a system that will help to perform online selling and buying of farm goods between farmer, retailer & buyer. For this purpose, facility is provided for the farmers, retailers & dealers can create their profile online where they can update their stock information and generate requirement if any. The result will be shown to the respective person in the form of Email, SMS & on profile notification. Making the whole process lot easier and breaching the communication gap between all of them.

E-Trading in an agriculture Web Service Application includes online buying and selling of farm goods for Indian farmers, buyers, feed grain industries. E-Trading in an agriculture web service application provides facilities such as sell farm goods online, search for grain, for farm goods. Also it

includes registration for retailers as well as dealers who can buy & sell their products respectively. The main objective of the system to replace manual method (i.e. in India most of the farmer and wholesaler have to go to "Bazaar Samiti" for transaction of farm goods.) by online method. Farmers from Rural areas can be able to connect to different cities. So that farmer will get best deal of their farm goods. A lot of options are available for both sellers as well as buyer-Trading in agriculture is a web service application so less time required for communication between users.

## II. PROBLEM DEFINATION

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## III. LITERATURE SURVEY

Literature survey includes following:  
"Grain trading online" is Australia's only online trading facility for buying and selling grains. They provide auction

facility for growers, buyers, feed grain industries and any other interested parties.

“igrain.com.au” is an online market place connecting buyers with sellers of grain. If you are a grain grower, trader, broker or end-user, igrain is a simple and efficient tool for the chore of trading grain. Designed by and for Australian wheat growers and end users, igrain seeks to bridge the gap from the abolished single desk; igrain provides sellers with maximum exposure for their grain both in Australia and potentially worldwide.

“Urban Herbs” is also online Trading web site for buying and selling of grains. Specialty of this site is they buy grains in small, frequent quantities and sell them in reasonable pack size. Also image of grain can be viewed.

“Homegrown Harvest” is providing online natural and organic grains that are fresh and at best price possible.

Variety of grains for sale includes wheat, oats, maize, barley, pigeon peas, sorghum, field peas, canary to name a few. Other range of grains includes French White Millet, sunflower grey stripped, chick peas, moonbeams, Panicum Millet, Panorama Millet etc. In addition, Brownlies Grain Training offers milling maize, prime maize, gritting maize, milling oats, feed oats, feed barley, malt barley and many more. Grains available from Brownlies Grain Training are free from toxic weed seeds. They are clean and free from mustiness, sourness or any other odour. Grains supplied by Brownlies Grain Training are free from nil water damage, taint, and mustiness, and mould, insect and rodent damage.

The proposed system includes online buying and selling of farm goods for Indian farmers, buyers, feed grain industries. KrishiConnect web service application provides facilities such as sell farm good online, search for grain, goods, and tools.

#### IV. PROPOSED SYSTEM

The project plan of the E-Farming system is as follows it gives step by step flow of the system implementation plan.

It includes the requirements gathering and analysis, design of project, GUI development, and coding, testing, modification and deployment phases.

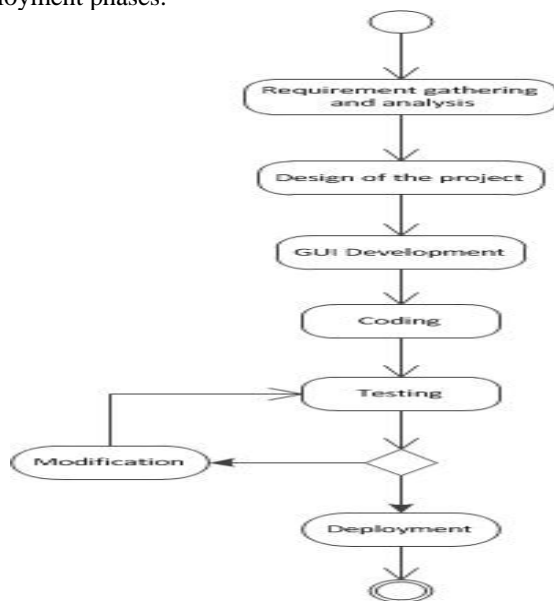


Fig. 1. Project Plan

The fig. 1. Above depicts the project plan. It describes the activity plan of the project. The activities will be carried out in the same order.

We are implementing this system on the basis of object oriented concept means dividing whole system into different modules.

The implementation sequence is as follows:

- Installing all system software which is required for developing this system such as PHP, Tomcat Apache.
- Create web application GUI.
- Develop database in MySQL.
- Connection to database.
- Including domestic language support to this application.
- For data/result searching, implement algorithm for different types of searches like location base search, product base search etc.
- Connection between client pages and database server using php pages.
- Adding weather API and map API to application.
- Implement operation such as add, update, delete related to stock details.
- Implement mailing and SMS facility for communication between users.

#### V. SYSTEM FEATURES

KrishiConnect will allow farmers to contact with dealers and buyers directly. Farmers, dealers and buyers can search for required goods and tools. Also system support the notification feature which help to get notify even when you are not using system.

##### A) Profile Creation

Farmers, buyers and dealers who want to take advantage of system have to register by creating their own profile on system. Email id, mobile no will be taken as username and user will decide his password.

##### B) Authentication

Basic validation strategy used is SMS passkey verification, without this verification account will not be activate.

##### C) KrishiConnect Features

Application can include local news, Weather status, Market rates, Searching for specific goods with different parameters like rate, location etc.

System will monitor for result for specific time period and will give/generate notification on daily bases; Review of farmers, dealers, buyers will be available.

#### VI. ABBREVIATIONS AND ACRONYMS

- GUI – Graphical User Interface  
Http – hypertext transfer protocol  
Fig. – Figure

#### VII. CONCLUSION

The project plan discussed in the previous section gives a clear perspective that KrishiConnect will give better benefits over the traditional trading system by providing wide market.

The application build will add many more functionalities to the existing system and thereby increasing radius of market for

buyers and sellers. The performance will be growing. Better service will be providing with greater efficiency.

#### VII. ACKNOWLEDGMENT

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