**OVERVIEW**

Krishi Mandala is based on web-based application and it has been developed using python and sqlite. The objective of this project is to connect farmers with customers. Also to upload and maintain data of users and farmers with a content management system that would allow crops information to be updated securely. The web portal will have an online interface in the form of a content management system that will allow farmers to sell their crops, fruits, vegetables; admin to manage reports of crops, seeds, fertilizers; bloggers and farmers details, customer database and reporting of the sales, orders.

The Krishi Mandala website will have an E-commerce features that will allow users to order crops, check crops price dynamically and also view static data, payments, order tracking and they can gather information regarding crops by blogging.

**PROBLEM STATEMENT:**

India is an agricultural country with around 70% of its people depending directly or indirectly upon agriculture. The number of farmers who are committing suicide day by day is increasing.

The indebtedness of farmers is one of the main reasons driving them to commit suicide. Farmers will not get sufficient money for what they sell. This is because of many individuals who is responsible for transporting products from farmers to customers. Crop fluctuations may lead to confusion to farmers to grow the particular crop

**OBJECTIVE:**

The main objective of this project is to connect farmers directly with their customers.

This may help farmers to get sufficient money without any intermediates. And also helps customers to get fresh products and at low price directly from farmers.

Static data visualization helps farmers to predict the price of a particular crop from previous year and also helps farmers to grow crops more efficiently with the help of information (videos, blogs) provided.

This project will be divided into following separate components:

* The content management system
* The e-commerce website/portal
* The crops, fruits, vegetables, fertilizers, seeds, farmer, customer and blogger database
* Reporting of the sales, orders, data visualisation
* The data security system.

**MODULAR DESCRIPTION**

These are the main modules of the project:

* **Products Module**: we can create, read, update and delete products from this module
* **News feed Module:** Updates and current affairs related to farmers will be posted here.
* **Farmers Module:** Farmer’s can register and get access to sell and buy products.
* **Blogging Module:** Author’s can blog here with admin’s permission.
* **Customers Module**: All the operations related to customers operations, is managed by this module
* **Data Visualisation Module**: User and farmers can view the ups and downs in price through out the year in pictorial representation(graph).
* **Shopping Module**: It has been developed for managing customer’s shopping.
* **Admin Module**:

**Requirement Analysis**

Hardware requirements

* Processor: Pentium V, 2.1GHz and above.
* RAM: 4GB (minimum) or 8GB (recommended).
* Hard disk: 80GB or above.
* Monitor: 15” CRT or LCD monitor.
* Keyboard: Normal or Multimedia
* Mouse: Any compatible mouse.

Software requirements

* Operating System: Windows 10/ Linux Kernel (4.0 or later) operating system
* Front End: Bootstrap CSS 5
* Back End: Db Browser sqlite3
* Coding Language: Python
* Tools : Visual studiocodeEditor2019, git.