IEEE WIE Project 3

**June, 2021**

**Ananya Ghosh**

**20MIC0063**

# Report

**KRISHISAHAYAK**

**Abstract**

I have created a **Web based platform to connect all the stake holders of the Agriculture system** in India – The Farmers, The Consumers, The Corporates/Food Consultants and The NGOs. This web based platform encourages and connect them all who are working towards the advancement and development of Agriculture and helping the farmers live a happy and peaceful life receiving appropriate price for their produced crops, along with empowerment of rural women in agriculture. We aim to connect the farmers to the corporates and consultants to help them understand the technological advancements in agriculture. This platform is also for sharing information and highlighting issues related to Agricultural systems. We bring in all forms of agriculture and farmers.

* Creates a common platform for all kinds of farmers and small/ medium/ large scale businesses to have effective **trading opportunity**.
* The farmers will be able to **see and compare the various prices** offered by the all for their harvest. Hence, choose and receive **appropriate price** for their harvest in a very easy and convenient way.
* The farmers will be able to **buy their agricultural ingredients** at effective prices. Only **eco-friendly** products will be promoted.
* The farmers will be able to ask their agricultural problems and doubts to our chatbot and experts as well from various educational institutes and research centers.

**Farmers’ Corner**

* Can Buy
* Can Sell
* Can Rent
* Can Ask doubts
* Can connect with workers

**Customers’ Corner**

* Can Buy fresh from fields
* Can upload articles on agriculture for all to see

**NGO/** **Consultant Corner:**

* Can showcase their details of their work in the website
* NGOs and Start-ups get a platform to show their work, connect with the farmers and help them

**Agro-News**

* All news and updates related to agriculture are posted here hence farmers and all other can be updated and aware of the issues and advancements

**This web-based platform encourages and connects those who are working towards the:**

* Advancement and development of agriculture and
* Helping the farmers live a happy and independent life,
* Receiving appropriate prices for their produce,
* Along with the **empowerment of rural women** employed in agriculture.
* We aim to help the **farmers connect with the corporates and consultants to understand the technological advancements in agriculture.** This website acts as a **platform meant for sharing information and highlighting the issues related to Agricultural System**.
* This website creates a **common platform for all kinds of farmers and small/ medium/ large scale businesses** to have an **effective and unbiased trading opportunity**.
* The farmers will be able to see and compare the various prices offered for their harvest and will be able to choose and receive an **appropriate price for their harvest** easily and conveniently.
* The farmers will be able to buy their agricultural ingredients at effective and suitable prices. Only **eco-friendly products will be promoted.**
* The farmers will be able to **put forward their queries and doubts in our chatbot and experts** as well from various educational institutes and research centers.
* Farmers’ Corner- Can Buy, Can Sell, Can Rent, Can Ask doubts, Can connect with workers
* Customers’ Corner- Can Buy, Can upload articles on agriculture for all to see
* NGO/Consultant Corner- Can connect with the farmers, customers, and other corporates and understand the issues in the Agriculture system as well as together figure out solutions. Can showcase the details of their work on the website, NGOs and Startups get a platform to show their work, connect with the farmers and help them.
* Agro-News- All news and updates related to agriculture will be posted here and the farmers and others will be updated and made aware of the issues and advancements.
* Donation- Anyone can donate for the upliftment and well-being of the farmers and agriculture.
* Other features- Chatbot, Connecting with workers.

**Components of the Web app:**

1. **Home:**

Navbar

About Section

Footer

1. **FARMER’S CORNER:**

**Services for the Farmers:**

* Agriculture
* Aquaculture
* Apiculture
* Livestock

\*All these above category of farmers will have 3 features:\*

**Buy, Sell, Rent-**

\*Further these 3 options will have sub-options as per the type of farming\*

* Agro-Doubt Bot
* Connect with Workers

**Example:**

The farmer clicks on Agriculture -> Buy -> Organic Fertilisers .

Then he will be directed to a page where he can see options of available fertilisers of all shopkeepers and companies. He can choose according to price and quality rating. After he clicks on Order now, he will have to fill his details and click on Buy.

1. **Customer Corner:**

Can see the available products fresh from fields. Like Honey, Fruits, Vegetable, Crops, Dairy products, etc.

Can upload their blogs and articles related to agriculture and food.

1. **NGOs, Consultants & Start-ups corner:**

NGOs, Consultants & Start-ups working for advancement of Agriculture future, supporting the farmers and empowering women in agriculture, upload their organisation profiles for all to see what work they have done, they can connect with the farmers, people and farmers can connect with them.

1. **AgroNews :**

All Agriculture and food related news and government policies and laws will be updated there. Everyone can be aware of all news.

1. **Donations:**

All can donate for farmers.

1. **Login/Sign Up**

**Technologies Used:**

* HTML
* CSS
* JavaScript
* jQuery
* RASA framework for chatbot
* Bootstrap
* Tailwind css
* Flask for backend

**My Role in the Project:**

The project was individually made by me.

**What I learned During the project?**

Flask- Backend

**Courses I took while working for this project:**

I studied from Youtube videos.

**Libraries Installed:**

**GitHub Repo Link:**