**Title of the project** :

FarmBuddy-Your Farm partner

**The theme of the Project :**

# **Agrotech**

In the Agriculture sector there have been always middlemen between the customer and farmer, why should middlemen have to be benefited??.. While the Farmer doesn’t even get the profits if the farmer doesn’t get profits who will sought the seeds for the next yield season? About 88% of the suicides of farmers are because of the debt burden, if the farmer doesn’t have enough money to grow the crops then who will grow the crops, the farmer is the backbone of our country, if we are not supporting our farmers the country is not gonna survive without the backbone. To sell the agricultural product, the farmer has to go through this process  
FARMER–>CONTACT BUYER–>MEETING–>NEGOTIATION–>SAMPLE CHECK–>SALES CONTRACT–>ADVANCED PAYMENT–>PRODUCT LOAD–>TRUCK–>CUSTOMS–>SHIP–>BATCH CHECK–>UNLOAD–>TRUCK–>QUALITY CHECK–>DELIVERY–>FINAL PAYMENT–>SELLING TO VENDORS–>VENDORS SELLING–>LOCAL RETAILERS–>TO US(CUSTOMERS)  
This has to be the whole process for an agricultural product to reach from farmer to the customer, in this process the product may be damaged and the product may be surplus to the retailer and sometimes there may be an inflation of the product. A number of global trends are influencing food security, poverty, and the overall sustainability of food and agricultural systems. As per the reports by 2050 we will need to produce 70 percent more food. Meanwhile, agriculture’s share of global GDP has shrunk to just 3 percent, one-third of its contribution just decades ago. Roughly 800 million people worldwide suffer from hunger. And under a business-as-usual scenario, 8 percent of the world’s population (or 650 million) will still be undernourished by 2030. To overcome this problem everyone should learn farming. It is even a lot better to grow your own food item in your house or balcony. Everyone loves greenery but they are supporting that with artificial grass why couldn't there be a normal creeper like Bottle gourd, watermelon, pumpkin, strawberry, etc...There are many people who want to learn farming in either offline or virtually but they don't know someone in the farming sector so they might be stopped, so this shouldn’t happen so we provide the Farm Buddy patrons(Farmers) who are willing to teach farming with a few cost. Farmers are quitting cultivation because of less money, so we provided a solution in our survey, teaching to the persons who are passionate about farming so the farmer will profit and we also. That’s how we can overcome the food scarcity. The user may learn virtually by contacting the patron or by visiting the nearest location farm of the farm patron. The barren farms will also be given leases. To overcome these problems we thought and brought a solution via a web application that is FarmBuddy.Farming should be the greatest hobby.

## **About**

Farm Buddy is a farmer-to-customer online marketplace platform that aims to connect farmers directly with customers. The platform is designed to eliminate the need for intermediaries such as Brokers, Transport, thus reducing costs and providing better value for both farmers and customers. Another aim of farm buddy is to provide a platform for everyone to learn farming.

# **Project Description :**

FarmBuddy is an online marketplace that aims to create a direct connection between farmers and customers. Our platform allows farmers to list their products and manage orders, while customers can browse and purchase fresh and locally sourced produce. By eliminating intermediaries and creating a direct link between farmers and customers, we can help to promote sustainable and locally sourced farming practices, while supporting small-scale farmers.

FarmBuddy provides an easy-to-use interface for farmers to create and manage their profiles, list their products, and track their orders. Our platform also provides customers with an intuitive shopping experience, allowing them to browse products by category, view product details and pricing, and place orders online. Customers can communicate directly with farmers to ask questions, provide feedback, and get advice on selecting the best products.

In addition to our online marketplace, FarmBuddy also provides a chatbot feature that enables customers to easily find answers to frequently asked questions. Our chatbot is available 24/7 and provides instant responses to common queries such as product availability, delivery times, and payment options. This feature helps to streamline the customer experience and ensures that customers have access to the information they need, whenever they need it.

At FarmBuddy, we are committed to promoting sustainable and environmentally friendly farming practices. By supporting small-scale farmers and enabling direct communication between farmers and customers, we aim to reduce food waste, promote local agriculture, and ensure that customers have access to high-quality, fresh produce. Join us today and be a part of the movement towards a healthier, more sustainable food system.

**Problem Statement:**

In traditional food supply chains, intermediaries such as middlemen and distributors play a crucial role in connecting farmers with customers. However, these intermediaries often charge high fees, which can result in increased prices for customers and reduced profits for farmers. Additionally, intermediaries may prioritize profits over sustainability and may not always ensure that the products are fresh and of high quality.

## **Solution:**

FarmBuddy aims to solve the problem of high intermediary fees and low profits for farmers by creating a direct connection between farmers and customers. By enabling farmers to list and manage their products directly on our platform, we eliminate the need for intermediaries and ensure that farmers receive a fair price for their products, while customers can purchase fresh, high-quality products at an affordable price.

In addition to promoting fair trade practices, FarmBuddy also aims to promote sustainable and environmentally friendly farming practices. By connecting customers directly with farmers, we encourage customers to make informed choices about the food they buy, while ensuring that farmers are supported in their efforts to produce food sustainably and responsibly.

Furthermore, our platform offers a chatbot feature that enables customers to easily find answers to frequently asked questions, such as product availability, delivery times, and payment options. This feature helps to streamline the customer experience and ensures that customers have access to the information they need, whenever they need it.

Overall, FarmBuddy provides a win-win solution for both farmers and customers, by eliminating intermediaries and promoting fair trade and sustainable farming practices. Join us today and be a part of the movement toward a more transparent, ethical, and sustainable food system.

## **Features :**

* **Chatbot**: A chatbot is an artificial intelligence-based software that allows users to interact with a computer program in a conversational manner. In the context of FarmBuddy, our chatbot can help farmers with a wide range of tasks such as answering farming-related questions, providing advice on crop cultivation, and recommending best practices for soil health.
* **Video Call**: Our platform allows customers to have virtual face-to-face conversations with agricultural experts or farmers. This feature enables farmers to discuss farming techniques, share knowledge and experiences, and get advice on specific farming challenges. It helps to break down geographical barriers and make it easier for farmers to connect with others in the farming community.
* **Weather Updates**: The weather can have a significant impact on agricultural yields and crop quality. Our platform provides farmers with up-to-date weather information so that they can plan their farming activities accordingly. They can make informed decisions about when to plant, irrigate, or harvest their crops, thus improving their productivity and profitability.
* **Maps for Nearest Farms**: This feature allows customers and farmers to locate nearby farms, which can be useful for a variety of purposes such as buying/selling products, finding new suppliers, and networking with other farmers. It helps to build a sense of community among farmers and customers collaboration and knowledge-sharing.

## **Tech-Stack:**

**Front-End :**

* HTML
* CSS
* BootStrap
* Java Script

**BACKEND :**

* FIREBASE

**CLOUD SERVICE:**

* Google Cloud

**TOOLS :**

* Github
* Figma
* Canva

**API :**

* Google Maps API
* Dialog Flow API
* Video SDK API

**CLOUD :**

* Google Cloud (AMD INSTANCE -T2D (1CPU/4GB) - OREGON)

## **Team Members:**

* Srikar Tenneti
* Sriraj Tata
* Himaja Vendra
* Sudhish Amiti

## **GitHub URL :**

[Farmbuddy](https://github.com/tinkten7/FarmBuddy)