

# Online Krishi Bhavan System- Agrocompanion

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# Agrocompanion

**Topic :** Online Krishi Bhavan System

## **Abstract:**

The Online Krishi Bhavan System is a digital platform designed to revolutionize and streamline the agricultural landscape by providing farmers and agricultural stakeholders with a comprehensive, user-friendly, and efficient online hub. The system leverages cutting-edge technology to address the diverse needs of the farming community, ultimately fostering agricultural sustainability and rural development.

## **Existing System:**

Krishi Bhavan is a government initiative in India aimed at supporting agricultural development. It operates through physical offices at the district level, serving as a hub for farmers and agricultural stakeholders. These centers provide services such as agricultural extension, information dissemination, government scheme implementation, and training. Farmers visit Krishi Bhavans for advice on crop management, pest control, and accessing subsidies. While these centers have been instrumental in rural agriculture, modernization is needed to harness technology and create an online platform for more efficient and widespread support to farmers, complementing the traditional brick-and-mortar services.

Existing similar sites:

1. <https://www.aims.kerala.gov.in/>

## **Proposed system:**

A proposed system for Krishi Bhavan can enhance its traditional services by integrating modern technology and data-driven solutions to better support farmers and agricultural stakeholders.

## **Functionalities:**

- Online Portal
- Marketplace Integration
- Knowledge Hub
- Government Scheme Access
- Community Engagement
- Disaster preparedness
- E-Marketplace for Agri-Inputs

**Benefits of the proposed system:**

- Enhanced Accessibility
- Efficient Information Sharing
- Market Access
- Knowledge and Capacity Building
- Time Savings
- Economic Growth

**Technologies used:**

Front-end: HTML/CSS/JavaScript

Back-end:Python

Framework:Django

Database:Mysql

**Main Modules:**

1. Admin
2. Officers/Staffs
3. Farmers
4. Services
5. Marketing

**1. Admin:**

- User details management  
Manage user accounts,access permissions and system configuration
- Adding news related to farmers,new technologies,ideas and important events.
- System maintainence  
Ensure the system runs smoothly,perform backups.
- Encouraging researches and provide support to the farmers.
- Rewards to the farmers for new technology implementation

**2.Officers:****Sub modules:**

1. Agricultural Officer
2. Assistant Officer

3. Marketing management officer
4. Staffs

### **1.Agricultural officer:**

- Service assigning  
Assigning services to framers based on their requirements
- Appointment scheduling  
Appointments schedule for farmers to communicate with the officers.
- Provide advices  
Advices related to crops,livestocks,pest,weather.
- Service delivery  
Online video conferencing and meetings,knowledge sharing and training,conducting workshops
- Alloting staffs for services

### **2.Assistant officer:**

- Assisting farmers
- Maintain the system in the absence of main officer
- Field visits
- Conflict resolution
- Emergency response to farmers problems

### **3.Marketing management officer:**

- Marketing strategy development  
Develop a marketing strategy and plan that aligns with the goals and objectives of the Krishi Bhavan system.
- Market research  
Conduct market research to understand the needs, preferences, and behaviors of farmers and other agricultural stakeholders.
- Brand Management  
Build and maintain a strong and trusted brand for the Krishi Bhavan platform.
- User engagement  
Implement strategies to engage and retain users on the platform, including user feedback mechanisms and customer support.
- Marketplace promotion  
Focus on promoting the platform's marketplace to connect farmers with buyers and increase trading activity.
- Farmers' Training  
Organize training sessions and workshops to educate farmers on how to use the platform effectively for their benefit.

#### **4.Staffs:**

- Providing farmer assistance
- Conduct inspections  
Inspect the farmlands on a time basis
- Monitor the farmland based on a time basis

#### **3.Farmers:**

- User registration
- Access to informations  
Obtain up-to-date information on crop varieties, cultivation practices, pest and disease management, and weather forecasts.Learn about government agricultural schemes, subsidies, and support programs.
- Market access  
Access information on market prices and demand for agricultural products. Explore opportunities to sell produce directly to consumers, retailers, or processors through online marketplaces.
- Govt.scheme enrollment  
Enroll in and apply for government agricultural schemes, subsidies, and financial assistance programs.
- Sharing their experiences and ideas and implementing new technologies
- Testing new crops and fertilizers and share the results in the community.
- Farmers can sell and buy products
- Request services

#### **4.Services:**

- Soil testing
- Crop advisory
- Pest advisory
- Providing equipments
- Fertilizer advisory
- Farmer pensions
- Insurance
- Providing Loan assistance
- Pest control measures and techniques
- Workshops and awareness programs
- Providing subsidies
- Disaster preparedness – Notify the customers before natural disasters and recommend measures to reduce the impact
- Govt.schemes and online technical support

## **5.Farmer community:**

- **Knowledge sharing**  
Sharing informations and new technics
- Collaborating with other farmers and develop new ideas
- Share their compliance with others and can seek help from other farmers and form a collective support

## **6.Marketing:**

- Enabling online purchases
- Suggesting products based on user needs and requirements
- Search by filtering some features like price,quality,type,variety
- Feedback mechanism – farmers can provide feedbacks

## **7.Crop:**

- **Seeds**  
Different varieties of seeds and their informations.Their climate and Full details regarding the maintaining of the seed.
- **Plants**  
Different plant varieties and their details
- **Fertilizers**  
Both chemical and biofertilizers can be provided
- **Pest**  
Different pesticides and pest control measures
- **Harvesting methods**  
Suggestions to farmers based on their crops and different methods of harvesting
- **Machines**  
Providing different tools to the customer both free of cost and with subsidies
- **Automatic disease prediction**  
Predicting the disease with symptoms and conditions.

## **8.Livestocks:**

- Monitoring their health
- Providing medicines
- Providing feeds
- Checking the shelter and provide resources to build shelter

**Mini Project:**

- Farmer registration
- Providing services like soil testing, crop advisory, pest control measures, workshops, awareness classes, govt. schemes and technical support.
- Maintenance of crops and livestock
- Allocating staffs to communicate with farmers

**Main project**

- Implementing the functionalities of marketing officer
- Marketing of products
- Services like pension, loan, subsidies, disaster preparedness, insurance
- Forming farmer community
- Pest disease identification
- Automated system for calculating overall expense for a particular crop