



Team ID: T088

Team Name: Pymond Tech

PS Number: PY051

PS Title: Assisting farmers with the help of data from the
Meteorological department

Domain: Web Development

Category: Software



Problem Statement:

- We are solving problems like
 - **Resource Optimization**
 - **Pest and Disease Control**
 - **Weather Impact Mitigation**
 - **Soil Health Monitoring**
- Due to a lack of weather knowledge, farmers are not aware of future weather conditions ,resulting in the loss of their crops . This project aims to solve this problem by providing farmers with accurate and timely weather information in a user-friendly and accessible manner.
- This project helps young or new farmers by providing guidance throughout the farming process ,enabling them to succeed without needing to seek external help.

Target audience :

- Farmers
- Input Suppliers
- Consumers



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STEP 1

User Authentication

LOGIN

HOME

WEATHER PAGE

- Log in or register on the web application
- Enter their location, land and crop details ,
- water resource available.

Plantation guidelines

- Based provided on user registration details crop selection is recommended
- Duration for farming , fertilizer, pesticides details will be provided.

Fetch Meteorological Data

- Retrieve live weather data from meteorological department.
- Based on data ,providing proper irrigation schedule.
- Alerts are provided when disasters arise like(flood, drought, earthquake, hurricane)

Notification

- Regular notifications are issued.
- Fertilizer , pesticides will be remained for farmers with quantities

Pest & Disease Control

Crop Management

Fertilizer recommendation

Plantation Tips

Logout

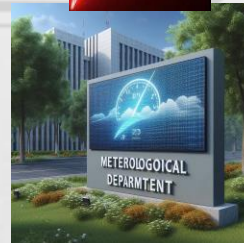
Proposed Solution:

- ☐ Helping farmers in agricultural activities
- ☐ Plantation Guidelines
- ☐ Irrigation scheduling
- ☐ Extreme Weather Alerts
- ☐ Pest and Disease management
- ☐ Fertilizers suggestions
- ☐ Weather Forecasting



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Technology Stack:

- **Chatbot** is implemented for farmers easy access
- Technology Stack Used : PyApps

Languages

- ✓ Python
- ✓ HTML
- ✓ CSS
- ✓ Javascript

Frame work

- ✓ Django
- ✓ Bootstrap

Database

- ✓ MySQL



Impact and Future Scope:

Impact

- ❖ Increased crop yields
- ❖ Reduced Crop Losses
- ❖ Economic Benefits
- ❖ Empowerment of Farmers

FUTURE SCOPE

- ❖ Improved Food Security
- ❖ Healthy & Organic Farming
- ❖ Increased Productivity
- ❖ Resource Management
- ❖ Youth Involvement

Research and References:

<https://mausam.imd.gov.in/chennai/>

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Team Member Details:

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THANK YOU !

