Smart Farming

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About the Existing System:

- There is existing system but they are very complicated so we have created easy and simple product for farmers help.

Need of Proposed System:

1. As many farmers grow their crop and it gets waste due to weather condition.

2.An online platform is required to know which crop is suitable as per weather, soil and climate factor.

Objectives of the Proposed System -

- 1. To give quality service to farmers to grow their crops and get benefits to them.
- 2. To provide an easiest way of farming.
- 3. To get a weather report and soil report to which crop to cultivate in farm.
- 4. To avoid loss of farmers.

Problem Statement -

- Nowadays many farmers face problems due to natural calamity or wrong decision of growing crops as per weather sometimes they get lot of loss.

Scope of the proposed System:

1. Index:- User can see about us and can access our services.

2. Crop:- based on soil quality and based on rain it will find out which crop to grow.

3. Fertilizer :- In fertilizer module it will be known which fertilizer to use as per soil condition.

4. Disease : - In disease module if user sends clicks photo and he scans here it will update which disease it is having.

Technologies Used -

- Frontend – HTML, CSS, Javascript
- Backend – Python , Flask
- Tools – PyCharm , Jupyter Notebook

Hardware-Software Requirements server side:

- **Software Requirement:**
  - OS: Windows 7 or above.
  - MySQL SERVER
  - Browser: Chrome, Mozilla, Opera, Internet Explorer, Firefox.
- **Hardware Requirement:**
  - Processor: Intel i3 / Ryzen 3
  - RAM : 4 GB
  - Hard-disk : 256GB

Hardware-Software Requirements Client side:

- **Software Requirement:**
  - OS: Windows 7 or above.
  - MySQL SERVER
  - Browser: Chrome, Mozilla, Opera, Internet Explorer, Firefox.
- **Hardware Requirement:**
  - Processor: Intel i3 / Ryzen 3
  - RAM : 4 GB
  - Hard-disk : 256GB

Expected GUI System:

1. Index page
2. Crop
3. Fertilizer
4. Crop disease