**PROBLEM STATEMENT**

Develop reachable app-based for soil health monitoring and suggest which crop to be sown

based on it.

**EXPECTED OUTPUT**

* Create an app-based solution to detect soil parameters like temperature , moisture content ,relative humidity ,nutrient etc.. and provide crop suggestions to be produced based on soil parameters & environmental values.
* Provide remedies &alerts on soil deficiencies like Watering or low moister level, fertilizers for nutrient deficiencies etc.

**WAYS THAT IT HELP FARMERS**

Irrespective of whether soil nutrient requirement uses blanket fertilizers for crop. Beacause of this issue , losses in crop yielding and soil health gets affected . With the help of this solution ,farmers can plan which crop to take based on soil condition.

**SYSTEM ARCHITECTURE**

WATER LEVEL DETECTION

CONNECT SMART GATEWAY USING CoAP

NOTIFICATION IN FARMERS MOBILE APP

SENDING VALUES TO ZIGBEE GATEWAY GATEWAY