**IoT Enabled Smart Farming Application**

**PROBLEM STATEMENT:**

IoT-based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture, temperature, and humidity using some sensors. Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field. Watering the crop is one of the important tasks for the farmers. They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps from the mobile application itself.

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| Who does the problem affect? | It affects the farmers and which will reduce the yield of their crops |
| What are the boundaries of the problem? | People who are doing agriculture are facing issues and reduces the work load of the farmers. |
| What is the issue? | In agricultural aspects, the farmers are suffering from issues like inadequate current supply and they don’t know about the soil moisture and humidity. |
| When does the issue occur? | During the development of the crops as they will be affected by various conditions like water scarcity and due to some soil conditions. |

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| Why is it important that we fix the problem? | It is required for the growth of better-quality food products.  It is important to maximize the crop yield .To minimize the problems faced by the farmers. |
| What solution to solve this issue? | An automated IoT system is developed for identifying the soil condition, temperature, humidity using sensors and farmers can see those readings and decide whether to water the crops or not |
| What methodology used to solve the issue? | Sensors are used to monitor and track the status of crops and automated water pumping systems to water the crops according to convenient timing. |