**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID44926 |
| Project Name | Project – Smart Farmer-IoT Enabled smart Farming Application |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | * Monitoring the field often it's deficult to the farmers they are unable to do their personal works. * watering the field is more time taken process for farmers because they are waited until the water fully cover the whole land. * soil moisture, temperature level and humidity levels are need to know because it affect the plant growth and crop yield. * Power consumption process for motor. Electricity is available only fewer times in villages. |
|  | Idea / Solution description | * We can use the some sensors used to collect the values of temperature, humidity,soil moisture,ect and give this values to the farmers ,it can easily increase the effective efficiency of plants. * we can use time control systems for motor on, off and irrigation system on ,off. * precision farming use the drones to monitoring the crop condition and intimate which one requires a nutrition and water,ect. |
|  | Novelty / Uniqueness | **Remote access:**   * **It helps the farmers to monitor the motor and irrigation system on, off in anywhere.**   **Allert messages;**   * **IOT sensors like temperature, humidity,soil moisture, motion detector ,they are collected the information from the farming environment and given to the controller unit (ex;Arduino UNO) it give information to the communication device to reach the farmers (customer)** |
|  | Social Impact / Customer Satisfaction | * It saves the lot of times. * It reduces the need of more labours. * Iot can in increase the production effeciency. * Provide the clean and green foods. * Iot can also helps in e-commerce business and increase sales. * It makes a wealthy society. |
|  | Business Model (Revenue Model) | Revenue (No. of Users vs Months)    User  Months |
|  | Scalability of the Solution | * Scalability in smart farming refers to the adaptability of a system to increase the capacity, for example, the number of technology devices such as sensors and actuators, while enabling timely analysis. |