**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 12 oct 2022 |
| Team ID | PNT2022TMID37457 |
| Project Name | Project - Smart Farmer-IoT Enabled smart Farming Application |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | IoT Based Smart Farming System with various sensors which will help to collect the data and analyse it. The proposed system collects information n related to farm. Information related to Soil moisture, Temperature and Humidity content These values collected are then sent over the mobile . Farmers can view all the parameters required for a smart farming system through the webpage. |
|  | Idea / Solution description | Smart Agricultural System solutions provide an integrated IoT platform in agriculture that allows farmers to leverage sensors, smart gateways and monitoring systems to collect information, control various parameters on their farms and analyse real-time data in order to make informed decisions. |
|  | Novelty / Uniqueness | It depends on IOT thus eliminating the need of physical work of farmers and thus increasing the productivity in every possible manner. The weather data are taken from the reliable source. |
|  | Social Impact / Customer Satisfaction | Reduces the wages for labours who work in the agricultural field. It saves a lot of time. IoT can help improve customer relationships by enhancing the customer's overall experience. |
|  | Business Model (Revenue Model) | A monthly subscription is charged to farmers for prediction and suggesting the irrigation timing based on sensors parameters like temperature, humidity, soil moisture. |
|  | Scalability of the Solution | Automatic farming equipment adjustment is made feasible by integrating information such as crops/weather and equipment to automatically alter temperature, humidity, and so on. With the use of sensors, it has enabled farmers to reduce waste and increase output. |