Project Design Phase-I Proposed Solution

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| Team ID | PNT2022TMID36144 |
| Project Name | Smart farmer - IOT Enabled Smart Farming Application |

**Proposed Solution:**

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| **S.No** | **Parameter** | **Description** |
| 1. | **Problem Statement (Problem to be solved)** | * Our project will give the solution to overcome these problems with help of IOT. * In agriculture, there are two major problems one is unpredictable climate change and another one is the yields of the crops that have been damaged by improper irrigation. |
| 2. | **Idea / Solution description** | * It collects the data from different types of sensors and it sends the value to the main server. * It also collects the weather data from the weather API. * The ultimate decision, whether to water the crop or not is taken by the farmer using mobile application. |
| 3. | **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. |
| 4. | **Social Impact / Customer Satisfaction** | * The information collected are from reliable sources and hence the farmer could make more precise decision, thereby the productivity increases. |
| 5. | **Business Model (Revenue Model)** | * Smart farming is an advanced and innovative way to get maximum cultivation and minimize the human efforts. |
| 6. | **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. |