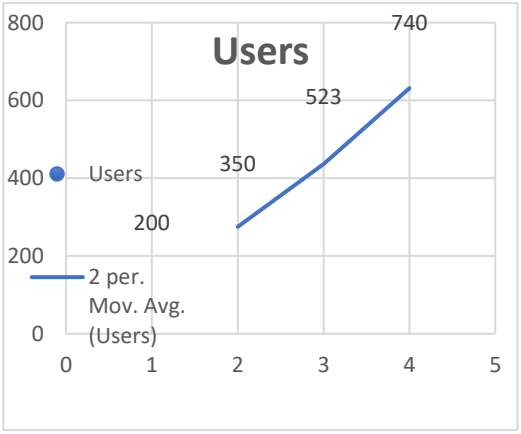
Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID21901
Project Name	Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Farmers must wait on the field until the entire farm field is covered with water before they can water it. Power supply issues are another issue. The electricity supply in Village Side may be different. Information gaps, widespread adoption, high costs, security concerns, etc. are the biggest obstacles for IoT in the agricultural sector.
2.	Idea / Solution description	1.Similar to precision agriculture, smart farming techniques let farmers keep better track of their crops and maintain the appropriate humidity levels. 2. Information gathered by sensors Dew detections, temperature, moisture, and humidity measurements all aid in predicting the weather in farms. So, cultivation for suitable crops is carried out.
3.	Novelty / Uniqueness	**ALERT MESSAGE:** IoT sensor nodes gather data from the agricultural environment, including soil moisture, air humidity,

		temperature, the nutrients in the soil, pest images, and water quality, and then send the gathered information to IoT backhaul devices. **REMOTE ACCESS:** It helps the farmer to operate the motor from anywhere.
4.	Social Impact / Customer Satisfaction	1.It saves a lot of time and lowers the wages paid to farm labourers. 2.By boosting the consumer experience overall, IoT can help strengthen customer relationships. 3.dentify maintenance requirements quickly, create better goods, deliver tailored communications, and more.
5.	Business Model (Revenue Model)	IoT can also support the growth and sales of e-commerce companies. 
6.	Scalability of the Solution	Scalability in smart farming refers to a system's ability to expand its capacity, such as the number of technological components like sensors and actuators, while allowing for prompt analysis.