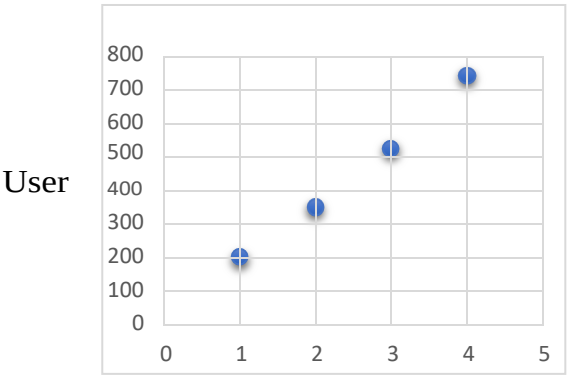
Project Design Phase - I
Proposed Solution Template

Date	08 october 2022
Team ID	PNT2022TMID03690
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	• Watering **the sphere** is a **tough** process, Farmers **ought to** wait **withinside the area till** the water covers the **entire** farm **area**. • Power Supply **is likewise one of the** problems. In Village Side,the **strength deliver can also additionally** vary. • The Biggest Challenges Faced by IoT in the Agricultural Sector are Lack of Information, High Adoption, Cost and Security Concerns, etc
2.	Idea / Solution description	• As is the case of precision Agriculture Smart Farming Technique Enables Farmers better to monitor the fields and maintain the humidity level accordingly. • The Data **accrued via way of means of** sensors, In **phrases** of humidity, temperature, moisture, and dew detections **assist** in **figuring out** the **climate sample** in Farms. So cultivation is **executed** for **appropriate** crops.
3.	Novelty / Uniqueness	**ALERT MESSAGE**– IoT sensor nodes **acquire data** from the farming environment, **including** soil moisture, air humidity, temperature, nutrient **components** of soil, pest images, and water quality, then transmit **accrued statistics** to IoT backhaul devices. **REMOTE ACCESS –** It helps the farmer to operate the motor from anywhere.

4.	Social Impact / Customer Satisfaction	• Reduces the wages for labors 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. • Easily identify maintenance needs, build better products, send personalized communications, and more. • IoT can also help e-commerce businesses thrive and increase sales. • It make a wealthy society
5.	Business Model (Revenue Model)	Revenue (No. of Users vs Months) 
6.	Scalability of the Solution	Scalability in **clever** farming **refers back to the** adaptability of a **machine** to **growth** the capacity, for example, the **variety** of **era gadgets inclusive of** sensors and actuators, **at the same time as allowing well timed** analysis.