IOT Enabled Smart Farming Applications

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SOLUTION FIT

Project Title:

IOT ENABLED SMART FARMING APPLICATION

Project Design Phase-I

Solution Fit Template

Team id: PNT2022TMID50396

1. CUSTOMER SEGMENT(S) CS

ct is mainly used to reduce the and mental illness of farmer.

tion system, plant monitoring mperature and humidity detection ıl.

ıg 24/7 everyday.

2. JOBS-TO-BE-DONE / PROBLEMS

- Water scarcity problem.
- Efficient usage of natural water.
- The animals invading will be prohibited
- Temperature and humidity level.
- Plants growth can be

3. TRIGGERS

- The two large tanks are used inside and outside the ground in which the natural water that is rain water is used for present and future use.

4. EMOTIOMNS BEFORE & AFTER

- Security is maintained.
- Work load is reduced

5. AVAILABLE SOLUTION J&P

past they have used only water monitoring, temperature.

- In our project we added rain water storing tanks, temperature & pressure sensor, PIR sensor in single assembly.
- In addition camera is used to monitor the plants growth

6. CUSTOMER CONSTRAINTS

- Low budget.
- Automatic monitoring
- Reduced man power
- Reduce the farmer's stress
- Rain water is effectively used

7. BEHAVIOUR

- Rain water monitoring is used.
- Farmer's can view the crops in the system during its free time.
- Whenever there is emergency ab alarm beam will get activated and intimates the farmer.

	8.CHANNELS OF BEHAVIOUR • ONLINE : Nutrients of the plants, humidity, temperature, motion of animals through app. • OFFLINE : The equipments and components should be checked.	9. PROBLEM OF ROOT CAUSE • Ground water scarcity problem is solved by using rain water. • Animal invading is prohibited. • Temperature & humidity is maintained.	10. YOUR SOLUTION The plant is monitoring with less power. The implementation cost ❒ The rare crops can also grown. ❒ Automatic monitoring wit ❒ using man power. ❒ 24/7 is low. be hout