**PROJECT DESIGN PHASE-I**

**PROBLEM SOLUTION FIT**

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| **Date** | **01 October 2022** |
| **Team ID** | **PNT2022TMID08369** |
| **Project Name** | **IoT based smart crop protection system for agriculture** |

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**BEFORE**: Finances, Heavy work overload and conflict in relationship.

**AFTER**: It will easier to make more yield. in field

Create opportunities to lift people out of poverty in developing nations. (Over 60 %)

1) It’s difficult to monitor and control

2) Ain’t known if the application doesn’t work properly.

**OFFLINE**: The control action is taken by the farmers to monitor the farms.

**ONLINE:** The Data send through application for the farmers to know about the farms.

***“IoT based Smart crop protection system for agriculture”!!***

It helps farmers grow more food on less land by protection crops from pests, diseases and weeds as well as raising productivity per hectare.

1)If temperature, PH level, humidity & light intensity makes the serious cause for the environment.

2)Farmer affected by less productivity which will affect in their profit.

**Direct related**: Tries to find a solution to prevent this problem

**Indirect related**: Located in rural where internet connectivity might not be strong enough to facilitate fast transmission speeds.

Monitor different parameters and mobile or web application make easily to farm the crop field.

1)High adoption costs, security concerns. 2)Not aware of the implementation of IoT in agriculture.

Farmer’s! Who’s not near his field