

# Project Design Phase-II

## Customer Journey Map

Date	08 October 2022
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Project Name	IOT based smart crop protection system for agriculture
Maximum Marks	

<p>Creating a user journey is a quick way to help you and your team gain a deeper understanding of who you're designing for, aka the stakeholder in your project. The information you add here should be representative of the observations and research you've done about your users. ♦</p>				
<b>1 Phases</b> High-level steps your user needs to accomplish from start to finish	To detect the problem	Finding an appropriate answer to the problem	what we need to implement	How to implement creatively
<b>2 Steps</b> Detailed actions your user has to perform	Measuring temperature from a humidity Sensor To detect the motion of insects with sensors To find over flow of the water	To build a codes By monitoring the land area By installing various sensors	Testing the Model Collecting a various dataset To study about the smart farming and sensors	To detects bad weather condition Activating everything automatically In any case detects a problem it should send a notification
<b>3 Feelings</b> What your user might be thinking and feeling at the moment	<div>            Farmers feel happy to see high amount of crop yield            Profit high            Time can be saved by using these method         </div> <div>            Increasing false positives            Due to heavy rain affects farm            It is difficult to know if the sensors are not working unexpectedly         </div>	<div>           Real-time Analysis of Soil Demand            Farmer can feel happy by this solution            Timely response can be taken which feels safe         </div> <div>           Modern farming methods have overused the natural resource base            Time can be saved            Animals are graze the crop         </div>	<div>           Prediction of result is difficult task            The model helps to predict about land and air            Implementation of sensors are difficult tasks         </div> <div>           It requires an unlimited or continuous internet connection            Rejecting the null activities            Sometimes sensors may fail to work         </div>	<div>           Implement the good sensors            Real-Time Crop Monitoring            Informing about the problems can be able to take necessary actions         </div> <div>           They need maintenance to keep them running            The high cost of research and development            Cope with climate change, soil erosion and biodiversity loss         </div>
<b>4 Pain points</b> Problems your user runs into	Due to network issues the alarm message will be delivered slowly Possibility of hacking or security threats If the program is not properly installed in the device then the device may not be to work	Terraced garden is hard to find the cause of the problem Sometimes find the problem requires techniques to solve the problem There is a chance of losing some parts in the device which make it worth less	The smart farming based engineers require farmers to understand and learn the use of technology communication between machines can be mislead It increase the cost of farming, which in turn can increase the cost of food	Cannot protect from natural disaster No measures are taken due to some external cases Water cannot be poured in proper time if sensor takes more time to sense
<b>5 Opportunities</b> Potential improvements or enhancements to the experience	Water is poured automatically sowing a seed Works can be done easily with a help of machines Planting and fertilizing are done without a human power	It provides information quickly and accurately It can be used to monitor field conditions to rate and lower the temperature Latest weathercast for easily to schedule -thripplanning and fertlities	high quality of Production is ensured Improves the fertility of soil Makes more spaces for crops	high quantity of Production is ensured It reduces the harmful chemicals It allows farmers to increase yields using minimum resources such as water, fertilizers, seeds etc

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