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| **Assignment Date** | 25 September 2022 |
| **Project Name** | **Farmer IOT** |
| **Maximum Marks** | 4 marks |

SMART FARMER APPLICATION USING IOT

**F A I R P L A N E**



IRRIGATION SYSTEM

**Based on ten customer interviews and observations from the Fairplane Guided City Tours team**

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# Entice

**SCENARIO**

**Irrigation system**

**for farmers using IOT**

How does someone initially become aware of this process?

# Enter

What do people experience as they begin the process?

# Engage

In the core moments in the process, what happens?

# Exit

What do people typically experience

as the process finishes?

# Extend

What happens after the experience is over?

**Steps**

**Personalized tour suggestions after each hour**

**Personalized steps offers**

**Personalized recommendations**

**Steps of the System**

**Sensor Feedback**

**Prompt for the order**

**Leave the current plant**

**Feeds the Water**

**Imitates the System**

**Check on the Land**

**Execute the process**

**Check for necessary things**

**Confirm all the each and every setup**

**Complete implementing**

**Start**

**implementing**

**View detail on the method**

**Browse options**

**Choose a method**

**Choosing**

**Irrigation**

**type**

**Irrigation**

What does the person (or group) typically experience?

The farmers usually irrigate the field for growth of plants

Old methods

Or

Modern methods

Modern

method

The farmers sees available options for irrigation

This paper proposes an automated irrigation system which monitors and maintains the desired soil moisture content via automatic watering.

After deciding to go on this method, they go with the implementation works

Farmers buy the project

First of we shall have to verify the each and every steps,so that any other problems would not occur

Then the second necessary task is to check that whether all the necessary things are available

At last we have to finish all the task that are needed to execute the system

Using the sensor on the land,it does checks for the water content on the land i.e the land whether wait or dry

If the system finds that the land needs the water i.e the land is dried , it imitates the system

Finally at the end water needed by the plant get water by this system

If any plant needs any water ,it feeds and then jumps to the next plant for their need

Once an hour , it does checks for each and every plant whether it is wet or dry

The sensor sends the feedback to the system that the soil.

The completed steps appears on the "past experiences" area of a land profile with a few details on where the process left out

Participation in the steps informs our backend recommendation systems, which the land may experience via better personalization

The customer receives an alert when the water is emptied after their tour with personalized recommendations for other tours

The past does the job at a time gap of one hour, but it is not enough that the soil does not know that when it needs the water.So it is suggested to give it for every 10 minute.

## Interactions

I.E that the response from the crop is limited of one hour

So this can be rectified

In this a major disadvantage is the interaction could be limited

This option very useful in doing the job very accurately

For the purpose to track each and every crop,

You can now select , each of the crops

You can see overall crop details

In menu, click track my application

Then give password

Open then mobile application

Helps us fixing the problem

Track each and every plant

By entering into the mobile application controls

Each and every part of the result can be seen

The results can be seen on the mobile appliction

What interactions do they have at each step along the way?

You have been given an option to review a single crop

**People:** Who do they see or talk to?

**Places:** Where are they?

**Things:** What digital touchpoints or physical objects would they use?

## Goals & motivations

These all the three things could help the farmers on using the iot in better way

Help me see ways to enhance my new trip

So we are utilizing the technology to save the water

Not all the plants require same amount of water

Second is to save the water

This will reduce a lot time and cost

The main is that to help farmers on their farmings

So in every they are using the technology

Now-a-days ,tech has been developed

3. Using of newer technology

2. Save WATER

i.e the water management

1. Help Farmers

There are three primary goals

At each step, what is a person’s primary goal or motivation? (“Help me...” or “Help me avoid...”)

In this project , are aiming for all positive things

## Positive moments

What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?

For this project , we have gone through a lot of things

We are pretty sure that it should satisfy all the customer needs

The main is for the farmers to reduce their efforts

### Farmers who are always struggling for their life

I’ll be sure are the satisfaction of the farmers

## Negative moments

What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?

Basic idea is use for the farmers who are mostly uneducated

### So it is bitter tough for accessing them

#### People expressed awkwardness about finding their guide

Sometimes people are matched up witholderr participants that they don't really like

People are unclear whether a tip is necessary, especially for uneducated on an Access

People feel peer pressure to tip a guide when someone else on the bugs, leaving them feeling weird and bad if they don't

People describe leaving a review as an arduous process

## Areas of opportunity

How might we make each step better? What ideas do we have? What have others suggested?

If you don't follow this instructions immediately after your implement, could we send a follow-up?

Could we automatically carry over the data from your field? (e.g. via a cookie)

Make it easier to compare and pour for experiences without having to click on them

### Provide a simpler summary to avoid information overload

Show highlights or common phrases from reviews