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# Agriculture and Aquaculture Systems By Team Kanika

Published on October 26, 2021

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MERN STACK WEB DEVELOPMENT

SDP1 Batch: 265

AGRICULTURE AND AQUACULTURE SYSTEM



## Introduction

KLEF has given us a wonderful opportunity in Skill Development Project - 1 to represent our understanding of the Business System. SDP is about to evaluate research and design thinking aspects of the students.

The Skill Development project we have chosen is **Agriculture and Aquaculture** and we called as “**KANIKA**”. In this field, we performed lots of research to analyze and emphasize the conditions. This article is based on the research we had taken.

## The Team



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1. **Karanam Venkata Kousik**(2000031142)

2. **Edara Tejasri**(2000030271)

3. **Valaboju Shiva Kumar Chary**(2000031041)

Our batch number is: 265



## **Understanding knowledge of Agriculture and Aquaculture business System**

The knowledge on agriculture and aquaculture are decreasing day by day, and even we don't know how farming and fishing takes place. In

Our important target groups are farmers (agriculture and aquaculture), merchants.

## **Field study of Business System.**

### **1.How do you decide which products used to grow crops?**

Based on demand and grow which are sustainably on our farm



### **2.What kind of fertilizers do you use?**

We use commercial fertilizers, or organic ones. Our program is all about building soil health, not about applying a band-aid to resolve a problem. If we build the soil healthily, we may or may not need fertilizer. We use herbicides, fungicides...etc has alternative



### **3.How do you deal with your weeds, insects, diseases?**

We encourage earthworm and other kind of useful insects. We will then do a soil analysis and see if worming is warranted and if so, we will then deworm. Worms cause cow poop to be toxic to bugs which means we have poop that stays on the ground as dried up patties rather than being turned back into the soil by the big and little critters. We rotate

from last time is gone. When we wormed cattle, those patties would stay for months.

#### **4.What kind of soil do you use?**

Fruits and vegetables get their nutrients from the soil - and that means fruit or veggie is only as nourishing as the soil in which it was grown. Great, fertile soil is its own ecosystem, with microorganisms and organisms that work together to break down and create nutrient-rich matter. So, we use fertile soil.

#### **5.Problems faced during harvesting and cultivation of crops**

Unavailability of good Quality of Seeds. Seeds are the basic input or raw material for the farmers to grow crops.

Lack of Modern Equipment.

Poor Irrigation facilities.

Small and Fragmented Holdings of land.

Dealing with local traders and middleman.

Lack of Storage facilities.

- For a week we visited nearby farmers to observe and talk to them, by the end of the week I had enough information for my project.
- Users had low limited knowledge about mobile phones and their usage.
- they trusted localized sources of information given by respected doctor who lives there than an experienced farmer from a different place.
- users would frequently go to a shop once they built a relationship with the sales manager.
- users had a rudimentary(simple) way of keeping track of activities to be performed for farming from beginning to end.
- users trusted the knowledge and methods from older generations, the adoption rate for these was very high.
- users were very scared to try out anything new and would wait for someone else to trust it.
- users had limited knowledge about government subsidies and how to go about using them.

### **Final List of users:**

- Agriculture and Aquaculture Farmers.

## MAIN IDEA:

Main idea of our project is to design a website which act as intermediate between farmer and merchant in which farmer and merchant can register in to that and can create a profile according to their occupation (farmer, margent or aquaculture farmer) . By using this website farmer can contact merchant before harvesting and can know information about selling their cultivated crop and negotiate required information and by the same way merchant can also contact farmer.

## Photos During the survey and Interview:





## **Customer Journey Map:**



## **User Persona:**



## **User Stories:**

**User stories are very useful and important which are used to capture a specific description of a software feature.**

**\*Being a farmer I want to know the type of soil in my farming land and grow crop according to that.**

**\*Being a farmer I need to cultivate crops according to seasons to get great yield .**

**\*Being a farmer I need to know what kind of fertilizers and nutrients needed to crops what I cultivate .**

**\*Being a customer I want to buy products according to my needed which are healthy and reasonable at cost.**



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---Thank You!!

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Hello Guys we are delighted to present you our SDP-1 project Kanika which is based on Agriculture and Aquaculture systems domain.

My Team Mates: [Edara Tejasri](#) and [Shiva Chary](#)

#agricultureandaquaculture #project #kluniversity #mernstack #userresearch



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