

FarmTech Connect

**Ms. Samrudhi Sanjay Kulkarni¹, Ms. Srushti Vidyadhar Bagale², Ms. Bhagyashri Somshekhar Boragi³
Ms. Sidra Abdul Saeed Shaikh⁴, Ms. Sarika C. Nimbalkar⁵, Mr. Sagar Somayya Hiremath⁶**

Diploma Students, Department of Information Technology^{1,2,3,4}

Lecturer, Department of Information Technology^{5,6}

Shri Siddheshwar Women's Polytechnic, Solapur, India

samrudhi.kulkarni05@.com, bagalesrushti8063@gmail.com, bhagyashriborgi00@gmail.com,

sidrashaikhsbh@gmail.com, nimbalkarsarika12@gmail.com, sagarhiremath12@gmail.com

Abstract: *As India is an agricultural country so it is important to provide some advanced features for the farmers such as upload crop photos, farmer will connect with expert by chat or call. With the help of such features farmer can easily find the solution for their problem and interact with the help of android application easily, Farmers may easily post photos of their plants and crops to this portal, which is mobile-friendly. We provide a solution for farmers which helps farmers to increase their products. Lots of farmer are unaware about the solution about the particular problem so they not able to increase their profit so lots of difficulty they will face in day-to-day life. To overcome from the above drawback, we build android application that helps interact easily. The method is intended to provide these farmers with direct access to certified specialists with knowledge in agriculture, plant and crop diseases, and other related fields. This platform's main objective is to provide farmers with vital support in handling issues pertaining to their plants and crops. Farmers may more easily share photos of their plants with recognized professionals, who can then provide exact advice and recommendations.*

Keywords: agricultural

I. INTRODUCTION

Every Farmer must aware about soil condition, moisture and all other parameters necessary to grow particular crops in their farm.

The analysis helps to make decision based on that decision farmer can predict the whether condition and then only he can decide which crop need to plant in which condition.

After prediction and analysis also some times they not get proper output as they are investing lots of time and whole family is depended on the farmer so if they not get sufficient profit from the farming they will not survive in daily routine.

Lots of farmer attempted suicide because they are not getting proper help to grow their farm. Indian government also providing lots of services and products to the farmer to avoid such a situation.

As an Indian and we wish to help all the farmers we are providing free solution to every farmer just they need to create an account in android app and they will post the crop photos. With the help of that photo we will identify the solution that is we provide expert assistant to the farmer. we are providing the expert help that farmer can easily communicate and we also included chat and call feature with this feature farmer can easily communicate with expert.

We present this idea to the farmer free of cost to avoid further death of farmer because of some parameters.

II. PROPOSED APPROACH

There are total 3 modules such as

1. Database Layer
2. Presentation Layer
3. Business Logic Layer

We are providing control to admin because all information must be verified and correct related to that particular farmer and expert so admin can verify all the information and add to our database.

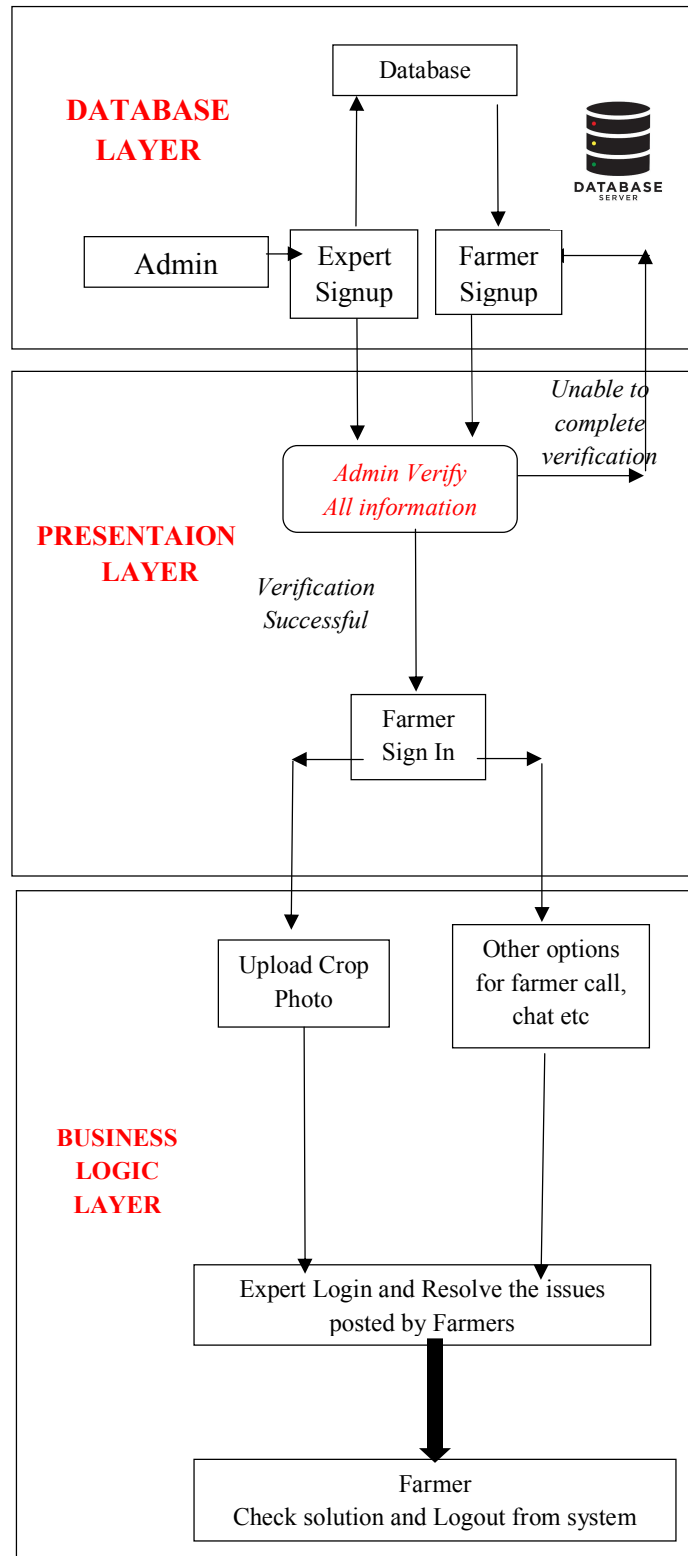


Figure 1- System Design

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After adding all information, we are providing control to the farmer that they can sign up first then admin can verify information and approve the user.

Similarly Expert also need to sign up to our application and admin can verify all the details of that expert.

Farmer sign in with the details and after sign in farmer can add or upload crop photo and farmer can also access other features such as chat and call.

We are focusing on solution for farmer problems so for that admin can verify the expert details carefully and provide trusted and free solution to every farmer as per the farmer need and requirement.

We also provide crop and category feature so that farmers can select crop and category and expert in that category will give the effective suggestion.

Expert will provide detailed information as per the problem and if required they can directly contact to the farmers. Expert will view the problem identify particular problem and find the solution and after that the expert will provide answer or provide solution to farmer.

As we are providing free solution for the farmer and app based interface with this feature farmer can easily connect to this system and interact in future we also implement multi language support and speech based input with this feature farmer can give command with the help of voice input from any language and voice command will be send to our system and find the solution that will be more easy for each farmer.

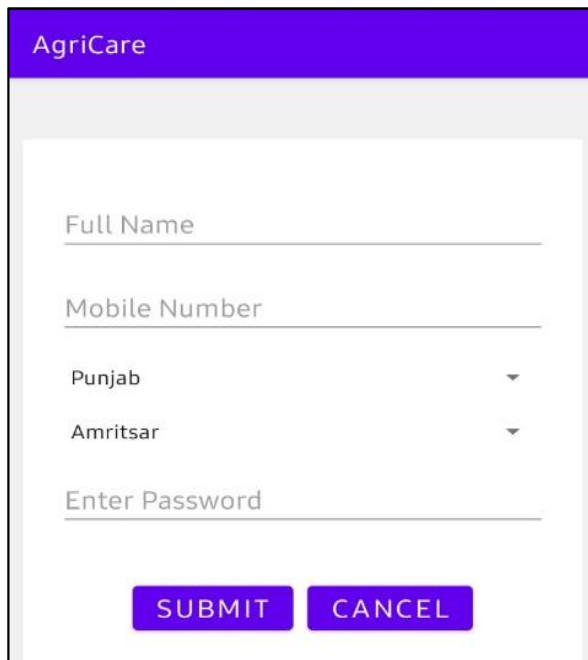


Figure 2- Registration Page for Farmer

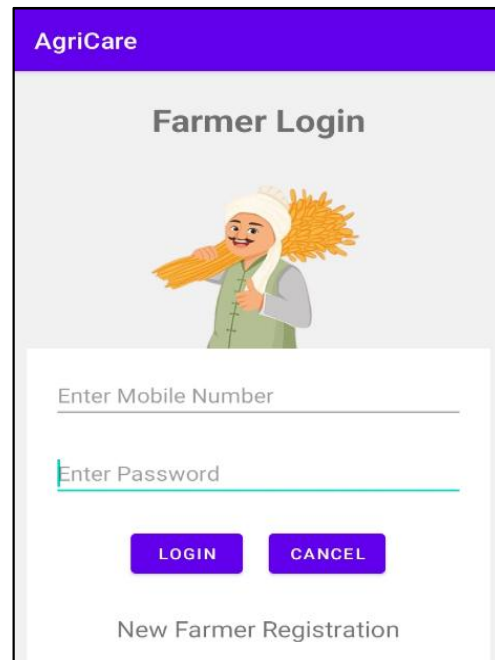


Figure 3- Login Page for Farmer

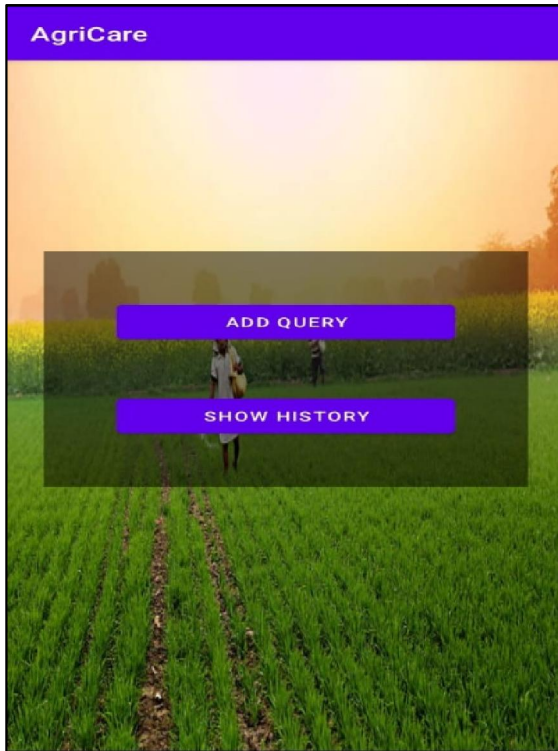


Figure 4- Farmer Query page

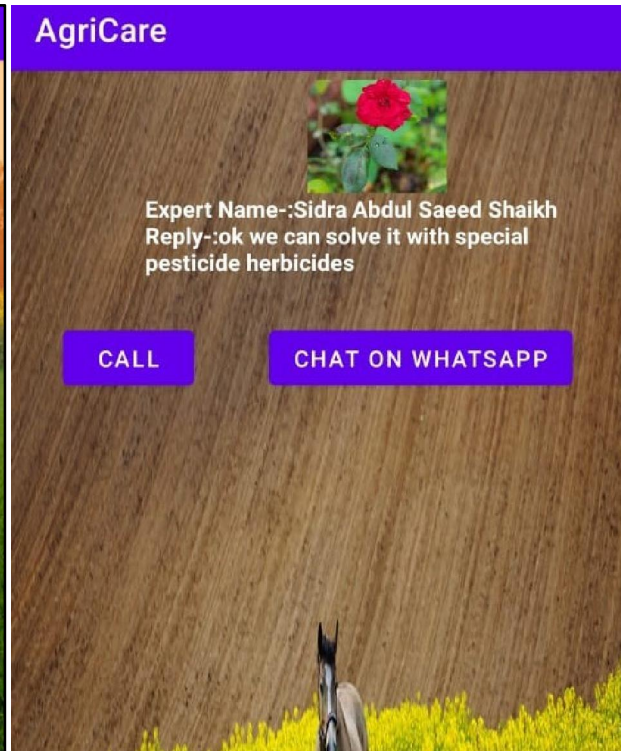


Figure 5- Farmer Add Query

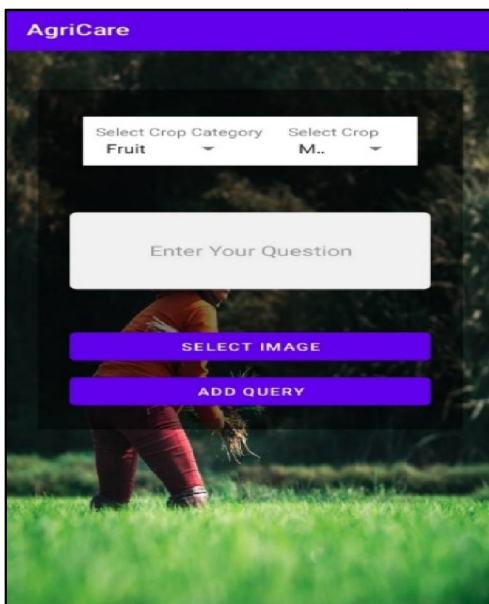


Figure 6- Expert Suggestions to farmer

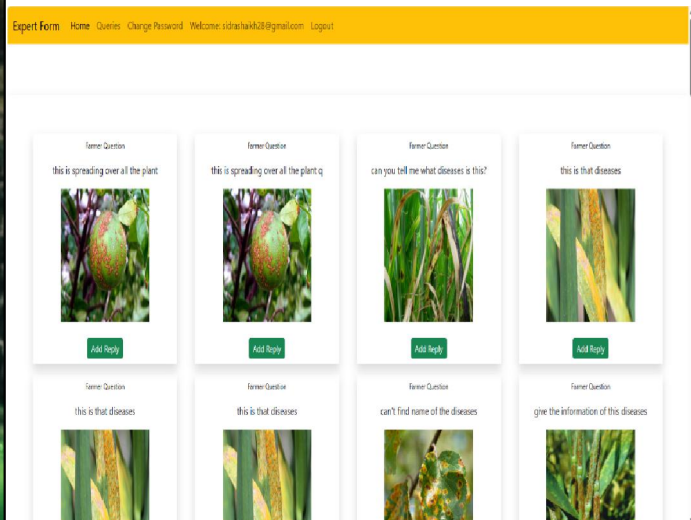


Figure 7- Expert Query Layout

III. CONCLUSION

App-Based Solution to Identify and Solve Diseases of Plants and Crops. In agriculture farmers faced numerous challenges. Plant and crop diseases are the main issue. In agriculture, there are many different plants, crops, and

diseases. As a result, it can be difficult to pinpoint the precise issue and, in the event that a plant is diseased, to determine the specific sort of disease the plant is suffering from and obtain a suitable remedy. Our idea will assist farmers in resolving this issue by allowing them to submit photos of the infected plant to an expert who will then provide an efficient remedy. Additionally, our project will foster communication between farmers and specialists. Additionally, farmers can simply call and chat to the expert .

The primary goal of this platform is to give farmers the essential assistance they need to deal with problems related to their plants and crops. Farmers can more readily send pictures of their plants to accredited experts, who can subsequently offer precise guidance and suggestions. As a result, growers can quickly treat plant illnesses.

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