



# Tech Vivasayi Mobile Application

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**Abstract:** In Rural Areas practice farming and in most cases lack basic resources and skills to improve yields, which are often poor. This has led to famine, poverty, crime and rural to urban migration. Agricultural activities when practiced very well can alleviate such challenges in the country. So to avoid this type of problems and to improve the farming and agriculture in the Country. We propose the Android application that will use both farmer and user. Many people from urban areas like to do agriculture. Some people have their own fields but failed to manage that, some don't have fields but like to invest in agriculture for those cases our project provide a good solution. This app has both farmer and user logins. When a user like to invest in a crop or in a particular area, they can easily search by providing the details of location or crop. When they search for certain request the query fetch the data of farmer from the realmdb. This helps the investor and the farmer to earn amount in an organic way.

## I. INTRODUCTION

India's agriculture is composed of many crops, with the foremost food staples being rice and wheat. Indian farmers also grow pulses, potatoes, sugarcane, oilseeds, and such non-food items as cotton, tea, coffee, rubber, and jute. Despite the overwhelming size of the agricultural sector, however, yields per hectare of crops in India are generally low compared to international standards. Improper water management is another problem affecting India's agriculture. Despite the fact that agriculture accounts for as much as a quarter of the Indian economy and employs an estimated 60 percent of the labor force, it is considered highly inefficient, wasteful, and incapable of solving the hunger and malnutrition problems.

## II. INTRODUCTION TO REALM

Realm Database fills the gap in the field of client-side data persistence. Indeed, there have been a multitude of server products released in recent years, but not much has happened for client-side needs. Up until a few years ago, the standard for building mobile apps on both iOS and Android was SQLite: a fast, but generic, all-purpose SQL database format. Realm, on the other hand, is a modern database solution which focuses on the needs of modern apps. In that sense, it is not an all-purpose database. It is really good at reading and writing data extremely fast. Realm is a new type of mobile database that you should not expect to use it the same way as you would an old, generic SQL database. The Realm APIs, built with modern, best-practices code, are much easier to use

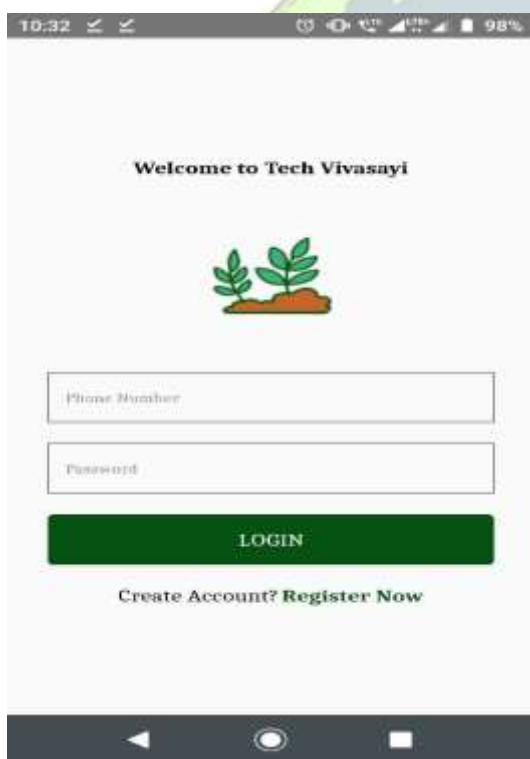
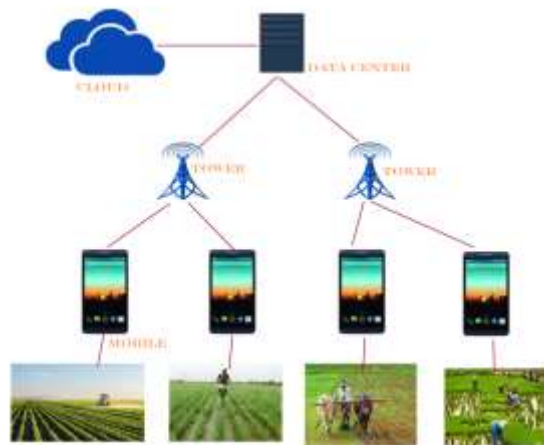
## III. EXISTING SYSTEM

More than 70% of the developing countries are living in rural areas. These areas are marginalized. They lack critical services that are offered in urban areas. Farmers in MRAs suffer from low yields, lack of resources, skills, death of cattle due to diseases thus making MRAs farmers not to be productive at all. Nowadays MRAs farmers are migrating from rural areas to urban places due to lack of resources and the scarcity of food at marginalized rural areas. Farmers from MRAs also face challenges regarding availability of sources and they also have financial problems. These challenges have also led to poverty and high crime rate in MRAs.

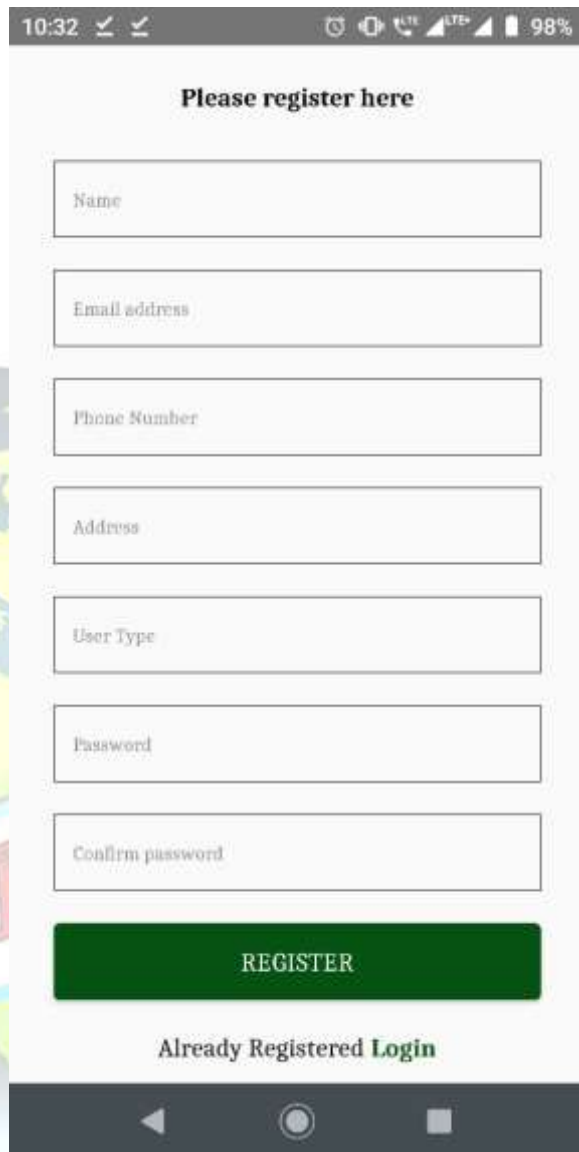
## IV. PROPOSED SYSTEM

In this paper, we have managed to identify mostly used devices in MRAs, (feature phones) mobile phones with access to internet and phone's that take pictures. This app has both farmer and user logins also register option. This app let the user and farmer can post their own land photos and crop images. And if any user wants to invest in a land then they can communicate the selected farmer via call and chatting option And give the land maintenance to the farmer after the cultivation of crop the user will take the profit from the land and the farmer get lease amount and maintenance amount. Farmer can get financial help for their land. Organic and non fertilizing vegetables can be created.

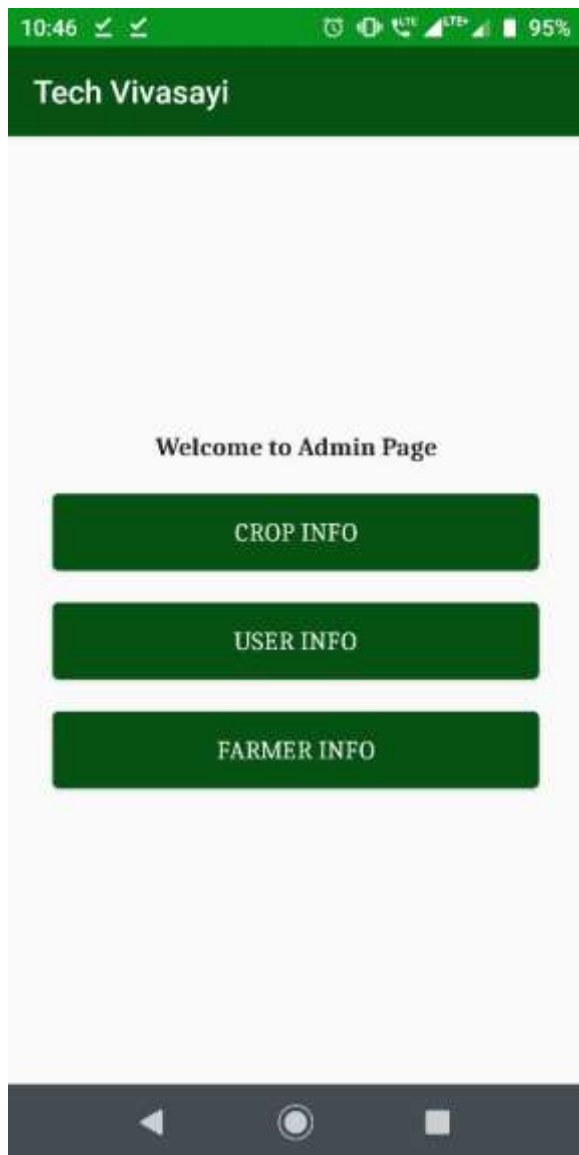
## Architectural Diagram



The login page let both user and farmer to login their account in this application.



The Register page let the new users and farmers to register their details in the application.



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When they search for certain request, the query fetch the data of farmer from the realmdp. This helps the investor and the farmer to earn amount in an organic way.

#### REFERENCES

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- [2]. MobiCrop: Supporting Crop Farmers with a Cloud-Enabled Mobile Application by Richard K. Lomotey, Yiding Chai, Shomoyita Jamal and Ralph Deters.
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The Admin page let the user and farmer to access the information about the crops, users and farmer.

#### V. CONCLUSION

In Rural Areas practice farming and in most cases lack basic resources and skills to improve yields, which are often poor. This has led to famine, poverty, crime and rural to urban migration. Many people from urban areas like to do agriculture. Some people have their own fields but failed to manage that, some don't have fields but like to invest in