KISAN AADHAAR

AADHAAR HAR KISAN KA

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Abstract: *Farming acts as a crucial job in everybody's life. Digital Technology is also evolving and its use connects everyone via mobile phones. Kisan Aadhaar connects farmers with agricultural officers and the fellow farmers. Kisan Aadhaar includes features such as special Question/Answer forum which supports different regional languages such as Hindi, Marathi. Kisan Aadhaar help you to find different links of Government schemes related to farming in India packed in one single android application. Thus, this application would help farmers in getting rid of their problems and enhance their agricultural techniques which results in good product delivery.*

Keywords: *Modern Agriculture, Android Application, Live Discussion.*

Introduction:

Agriculture is a significant area of the Indian economy. It is on the grounds that it gives work to generally 50% of India's workforce and adds to 17% of India's GDP. Since autonomy, a lot of changes have been seen in the division.
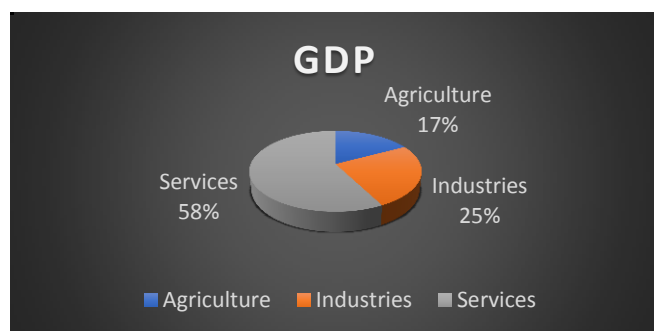

Fig. 1(Composition of GDP)

Yields are agent to deal with. They resemble a crude egg; one blow and the yield may get harmed. India's atmosphere is harsh and there are likewise existing a few spots where land-surface swings its temperament such places are where volcanic emissions, dry spells, flood are exceptionally visiting and are very normal. Agribusiness in India is profoundly vulnerable to dangers like dry seasons and floods.

In the event that it rains vigorously, we utilize an umbrella to ensure ourselves; in the event that sun-force is overwhelming, at that point we use goggles and shield our eyes from getting singed. In what capacity will a farmer shield their harvest from a similar characteristic cataclysm? Here we move our subject to the application which provides enough information in the form of Q/A forum. This application is based upon Android and with the help of Android Studio we were able to fetch several functions under one application.

Android is a compact working structure (OS) first made by a Silicon Valley association by the name of Android Inc. An organized exertion started by Google in 2007 through the Open Handset Alliance (OHA) gave Android an edge in passing on an all-out programming set, which joins the principal OS, middleware and expresses versatile application, or applications.

Android's open platform helps individuals around the world appreciate more prominent access to more data and opportunity than at any time in recent memory. The Android platform empowers gadget producers to contend and enhance. Application engineers can contact tremendous crowds and fabricate solid organizations.

Fig. 2(OS Market Share)

Android Studio is the authority coordinated improvement condition (IDE) for Android application advancement. It depends on the IntelliJ IDEA, a Java coordinated advancement condition for programming, and fuses its code altering and designer instruments.

Literature Survey:

In 2015, Dr. Sanjay Aswale published a paper which includes following objectives:

1. To study different agriculture shares and trends available and also share in GDP of economy.

2. To look at the Public use caused by the legislature when change period.

Also, three parameters are decided in this study to know the trends in agriculture and role of plan period outlay for development of agriculture i.e. Share of GDP, Share Area –Production and Plan outlay. The study is based on secondary data. Farming division is the backbone of the Indian economy. It is observed that there is need to incur more expenditure in agriculture and allied sectors to increase the share of agriculture in GDP of our country.

In 2016, Constantina Costopoulou, Maria Ntaliani, Sotiris Karetsos proposed a mobile app system which is used to reveal the current status of farming applications. Right off the bat, it portrays the worldwide mobile farming applications biological system through various qualities. Also, it centres around the Greek versatile farming applications biological system and studies agrarian partners' advantage and eagerness to utilize portable applications in their every day rural exercises.

In 2016, Abdul Rehman, Luan Jingdong, Rafia Khatoon and Imran Hussain proposed another or present-day innovation in the horticultural division which can considerably improve the farming creation and supportability. Current farming innovation has been created in view of keeping two significant things: the first thing is getting the best returns conceivable and the second thing is to get the most noteworthy monetary benefit conceivable. To accomplish these objectives, six fundamental and significant practices have come to frame the foundation of creation in farming: use of inorganic compost, water system, serious culturing, monoculture, concoction bother control and enatic control of harvest plants. Autopilot farm trucks, crop sensors, VRT and area control innovation, checking and controlling harvest water system frameworks by means of cell phone, documentation of fields through GPS, biotechnology and ultrasounds for trained animals have a spine for the creation and is using for its individual duty to gainfulness.

In 2018, Dr.D.K. Sharma, Sunidhi Sharma, Supriti Sharma presented a paper which includes a review of various mobile applications and talks about their highlights, capacities, and how they are deficient in certain areas.

There are numerous applications through which farmers get assorted realities or data about farming like seeds, crop choice, crop forms climate, compost, pesticides and so forth from different assets which are dispersed on a wide range of areas as indicated by its beginning, its processors, makers or sellers. The primary thought of this framework is to introduce a framework which covers all the significant data pretty much all the spaces of agribusiness, and accessible at their area.

Name of paper	Published Date	Name of Publishers	Topics covered
A Study of Recent styles, techniques and trends in modern Agriculture	Conference Paper · February 2015	Dr. Sanjay Aswale	To study the styles and trends of modern agriculture along with the share in GDP. To look at the Public use caused by the legislature when change period.
Modern Farming Techniques and Technology its Usage, Significance in betterment of Agriculture	IDOSI Publications 2016	Abdul Rehman, Luan Jingdong Rafia Khatoon Imran Hussain	The fundamental reason for this paper is to present the cutting-edge innovation reception its significance, utilization and job in farming improvement.
A detailed study of android application available.	IOSR Volume 3: Issue 6 Nov-Dec 2016	Constantina C, Maria N, Sotiris K	Focus on the present status of the mobile farming applications and describe the globe about mobile application regarding farming through various characteristics. Paper contains the overview on the Greek mobile farming application and the studies of agribusiness and interest of the farmers to use the mobile apps.

Table 1 (Literature Paper)

Review of Mobile Android Agriculture Applications	IRJET Volume 5: Issue 8 Aug 2018	Dr. D.K. Sharma Sunidhi Sharma Supriti Sharma	The papers have an overview of the various Agriculture application available on Google Play Store and contains detail review, features and the functions of the applications along with missing features too.

Proposed System:

Kisan Aadhaar is basically a platform between farmers and agriculture officers in order to make easy communication between them and solve the queries of famers easily and quickly.

Kisan Aadhaar is an android application and it works as follow:

- New user will log in with appropriate and correct credential on the new user page.

- Existing user will login using their login credentials.

- Kisan Aadhaar application will provide several different options.

- Farmer/user can directly ask question to the agriculture officer regarding any query and will the get the reply from the administrator accordingly in a particular time.

- Kisan Aadhaar provides feature of Soil Health card which will help farmers to keep track of their farm's soil health.(Link related to soil health card is given for time being)

- Along with question/answer facility it also has a column of frequently asked questions through which users can get instant answers to the related questions which are commonly asked
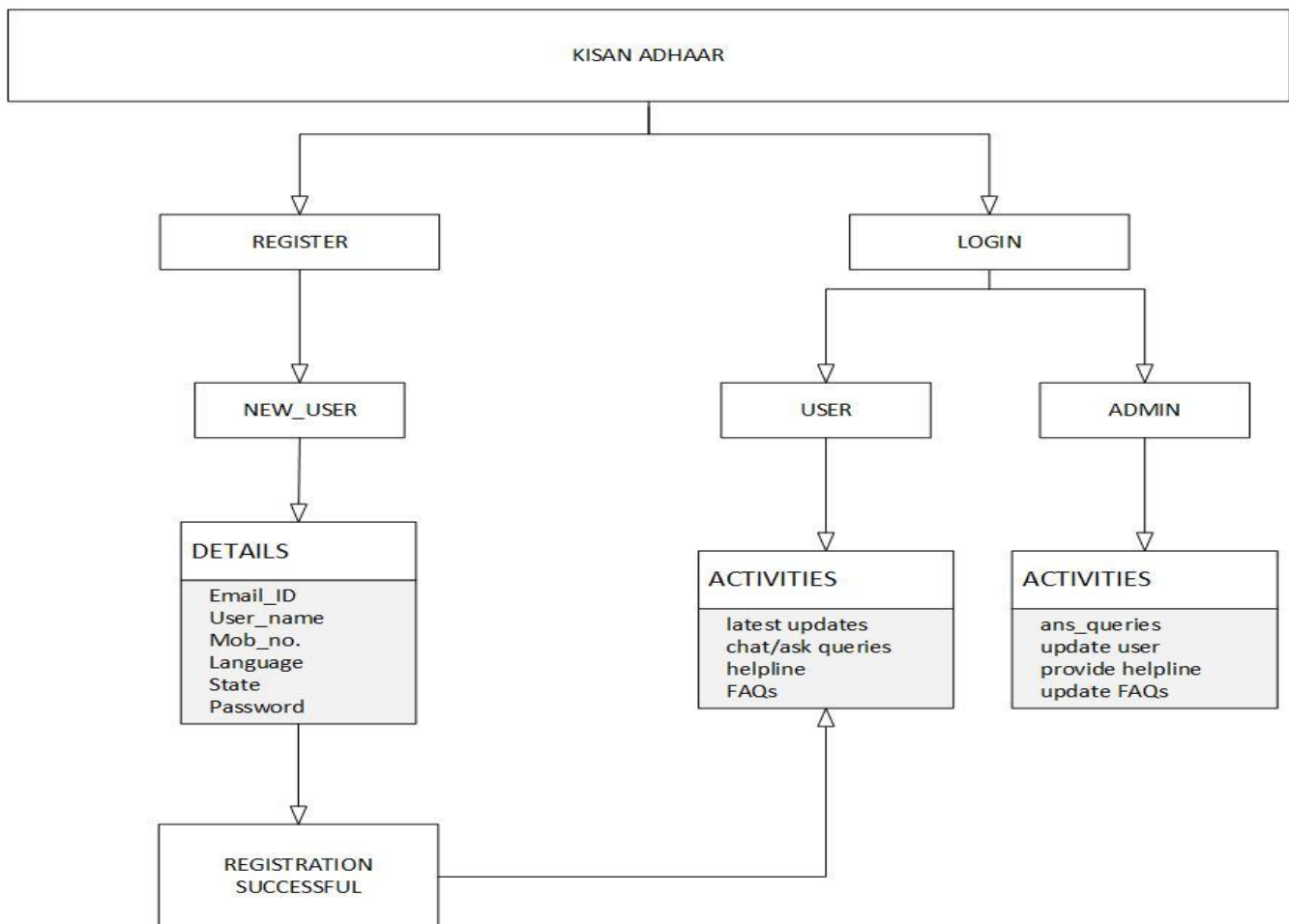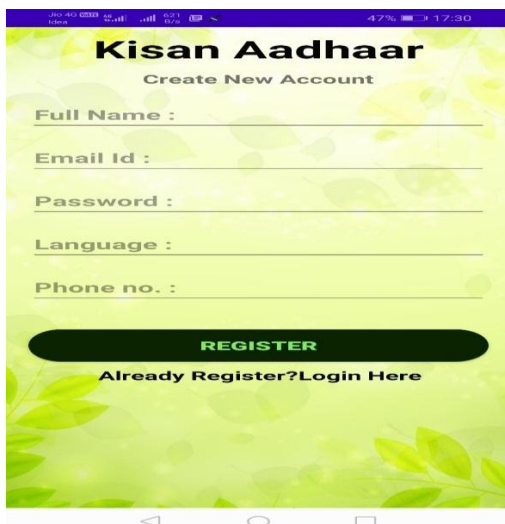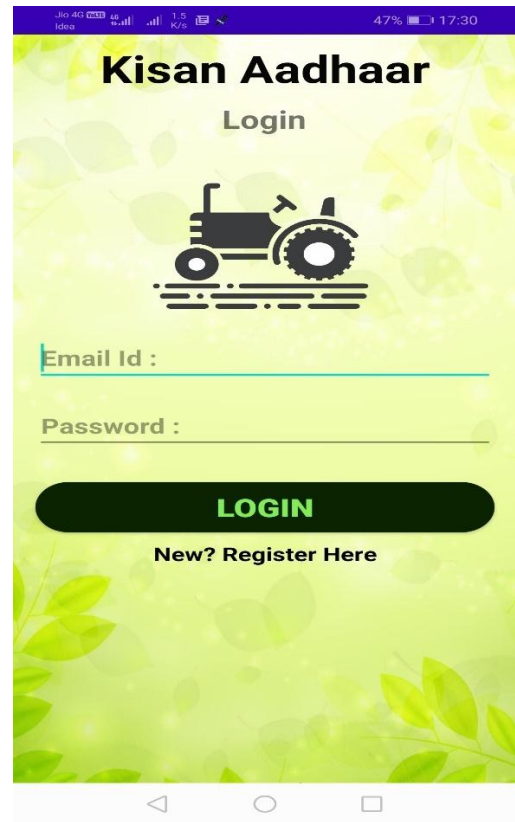

Fig. 3 (Block Diagram)

Product Scope:

• We are developing this project to provide a simple application which is easy-to-use.

• Farmers have to suffer a lot due to lack of knowledge or lacking behind the new technologies in agriculture.

• Nowadays its hard to find quick answers to agriculture related queries directly from the admins.

• Farmers have to wait for the officers to get free and they can ask their question by physically going to them.

• This process consumes more time and energy and sometimes results in query remained unsolved.

• Therefore, this application will reduce both time and energy and farmers can get answers any time other than office hours also.

• The helpline section of the application have different toll free numbers which are given by the government where farmers can directly call and get their problems solved, plus there are links for different agricultural websites with their specification.

• With the increase in use of smartphones, farmers could be aware of what's going in the market, latest trends, help, quick link to different websites, chat, etc
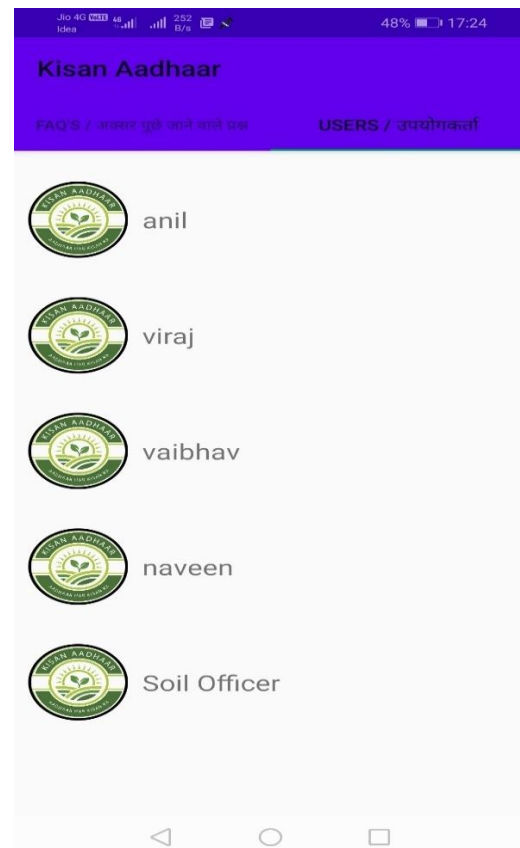
Results/Output:

1. **Register page:**

2. **Login Page:**

3. **Chat Page:**

4. Other Language Support:

Conclusion & Future Scope:

Our application provides help to those who are in problem regarding crop failures, information about pesticides and their use, different ways of cropping and issues like lack of communication with agricultural officers which happens in day to day life of a farmer could be resolved with Kisan Aadhaar. With the help of this application they could overcome these problems with just a query away in a interactive Question /Answer forum. With the help of Kisan Aadhaar they can also get the important government scheme links so they don't need to find the links anywhere else.

Also, the Kisan Aadhaar is available in regional language so farmers can interact with the Agriculture officer accordingly.

Future Scope:

• Weather report:

User will get a detailed weather forecast report on the app. User can go to the weather forecast section and see the weather forecast of their region. This feature will need access of their location through GPS.

• Voice Chat:

User will be able to record and send voice notes in the chat section. This feature helps the user to communicate more efficiently and clearly.

• Media Upload:

User can upload media such as photos and videos in order to give and take some information.

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