



Walchand College Of Engineering,Sangli

(An Autonomous Institute)

**Department
Of
Computer Science And Engineering**

A Project REPORT On

“FarmNet”

Mini Project work for

Third Year (Semester-II) of

B. Tech in Computer Science And Engineering

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Under the Guidance of

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Walchand College Of Engineering,Sangli

(An Autonomous Institute)

**Department
Of
Computer Science And Engineering**

CERTIFICATE

This is to certify that the project Report entitled, “FARMNET”,

Submitted by,

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to Walchand College of Engineering, Sangli, India, in a partial fulfillment of the completion of 6th semester of B.Tech course during the year 2018-19. The project has been approved as it satisfies the academic requirement with respect to the project work prescribed for above said course.

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ACKNOWLEDGEMENT

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We would like to express our special gratitude and thanks to Officers from Agriculture Department for giving us such attention and time.

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- **Introduction :**

We,the students of Walchand College Of Engineering,Sangli, are looking forward to give our initiative in the “**smart farming**”.

India is the country of villages and agriculture plays an important role for development of country.Every doubt has its own light towards innovations that can be a Great beneficiary for Society. Keeping this in mind, we are coming up with the idea of developing a portal for farmers as well as Government officials which will help them to,

- Start up, when the person is new to farming.
- Get the updates of government schemes periodically and chat with other farmers to get solutions, in voice, video, text or image format.
- Ask for expert advice, if the situation is critical.
- Write and post articles on various topics/trends of modern agriculture.
- Notify farmers of particular area via SMS when expert lecture is to be conducted in that area.
- Officers can also view region wise list of users.

- **Problem Statement :**

A smart guide for farmers as avenue to approach problems and growing up literature by connecting them with experts of Society.

- **Existing System:**

Currently ,some farmers are turning towards the smart farming.These include smart Agriculture,smart greenhouse,smart irrigation System,etc.

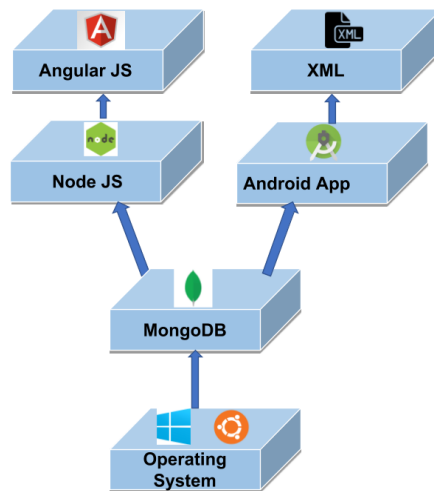
Alongside this ,we are thought of this plan to develop web-based interface and android application to fathom farmers questions .As when the farmers begin doing farming,initially he doesn't have any thought regarding cultivating so he can raise the queries.

- Queries can't be repeated,i.e. the Person asking same query as asked earlier by other person will be answered immediately.
- Ratings for answers from farmer, who raised the query.and showing responses based on positive feedbacks.
- The system will go for publicity by the head of village.

- **Project Objectives :**

- Make the farmer literate about farming.
- Get the solution of every doubt of farmer and make it user-friendly so that even illiterate would be able to use it.
- To provide web portal for maintenance of records for officials as well as experts whereas android application is for farmers.
- To make it available in regional languages.

- **Technology:**



Software specifications:

- Web portal
 - MongoDB database
 - HTML,css,Javascript,Node JS,Express
- Android application
 - MongoDB database
 - Java

- **Innovativeness and usefulness:**

In Our System,We are going to implement following Modules:

- Web Portal:

Farmer can register and login into the system once their registration is approved by admin .When he/she logged in into the system, can write and post articles on various topics or trends of modern agriculture also they can chat with each other regarding their problems.This communication will be in the form of images ,voice along with the text.All farmers can view the news feed posted by each farmer and can also give suggestions and It will be sort out based on **upvotes and downvotes**.

The other half of system is for officials .He can view list of farmers present in particular area and can use this list for any future work .Officers can too add post, if any.If there is any particular expert lecture organized at any village or area then all the farmers of the area will be **notified by sms**.

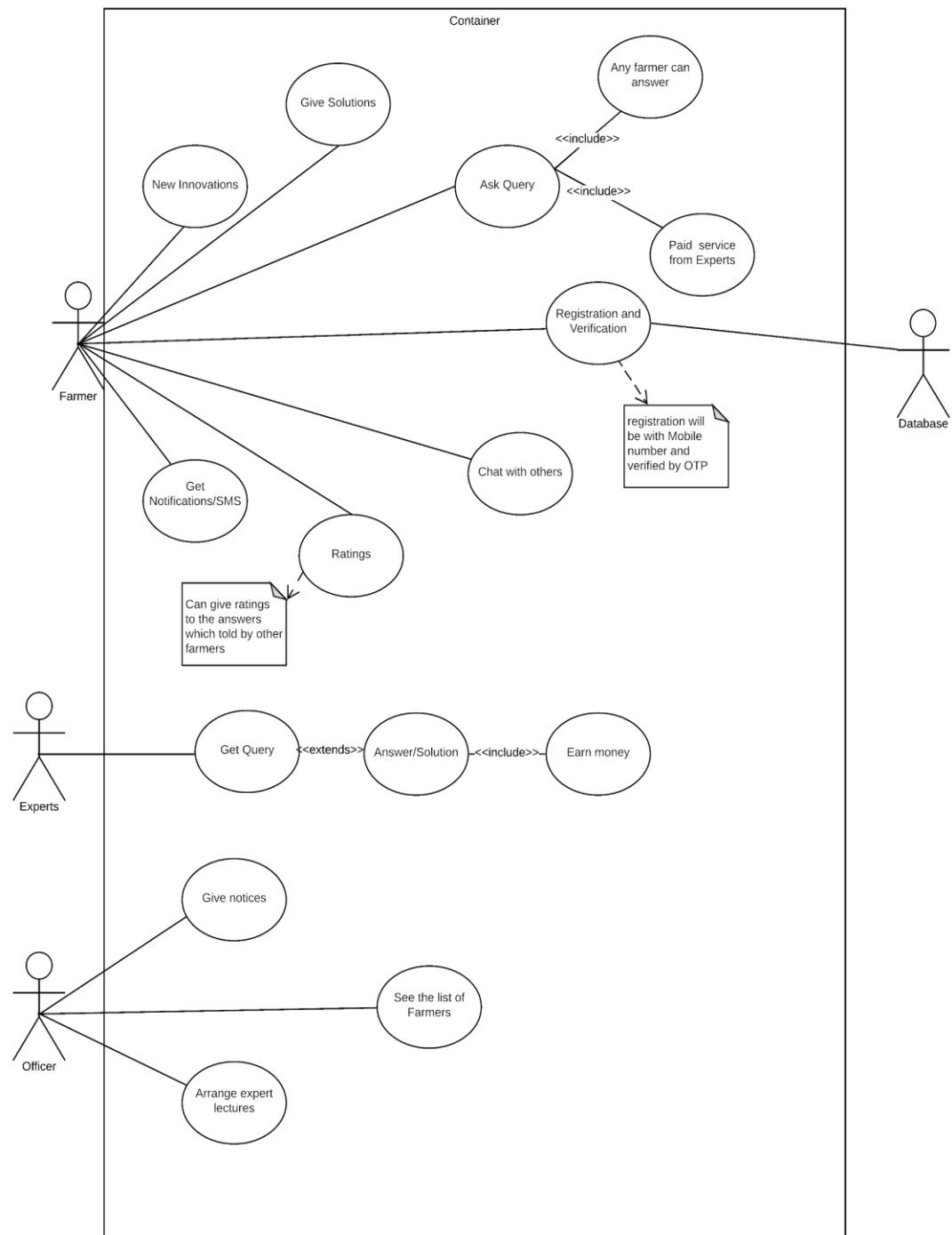
- Android App:

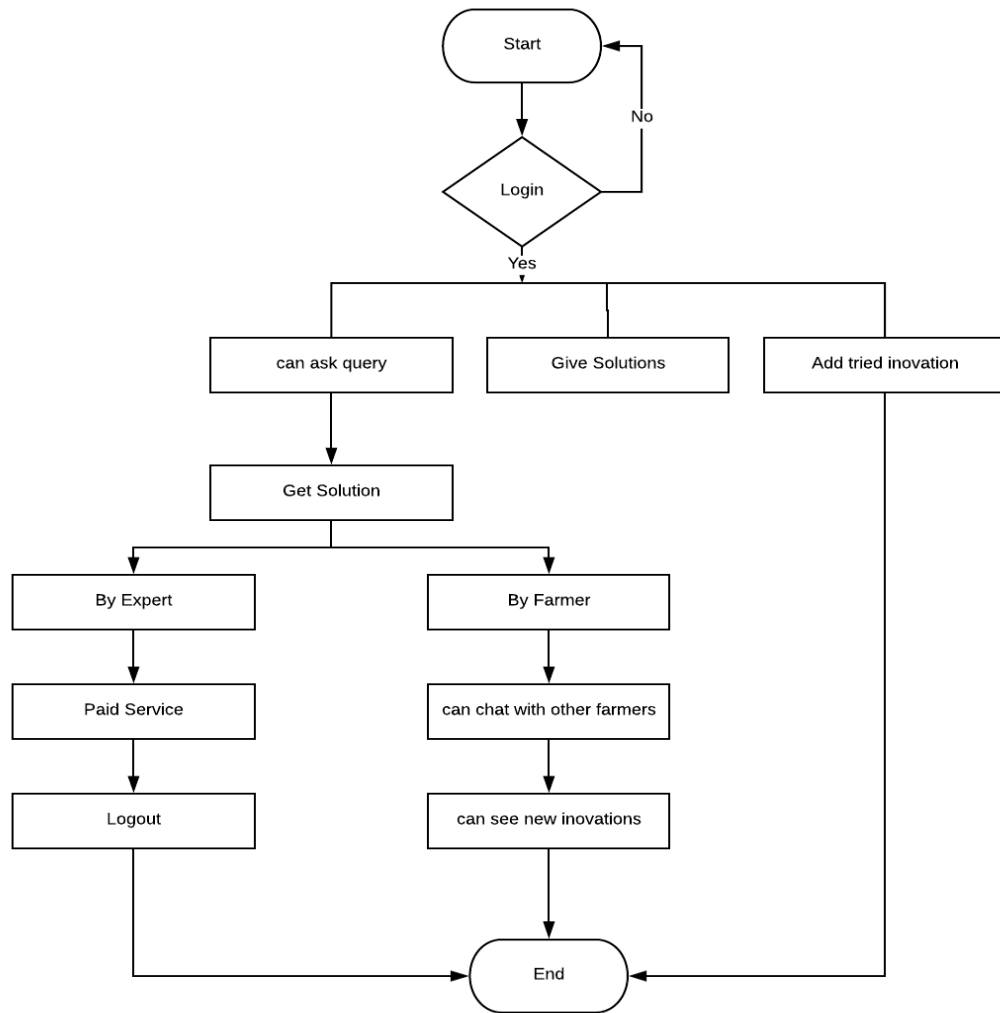
Farmer can enlist and login into the system once their enrollment is endorsed by administrator .When he/she signed in into the framework, can compose and post articles on different subjects or patterns of present day agribusiness additionally they can visit with one another in regards to their problems.This correspondence will be as pictures ,voice alongside the text.All ranchers can see the news source posted by every rancher and can likewise give recommendations and It will be sort out dependent on upvotes and downvotes.

- Database:

As if we need to store data,there we need database. When farmer ask queries it goes to the database and also he is able to see his posts that is fetch from database .

● UML Diagrams:





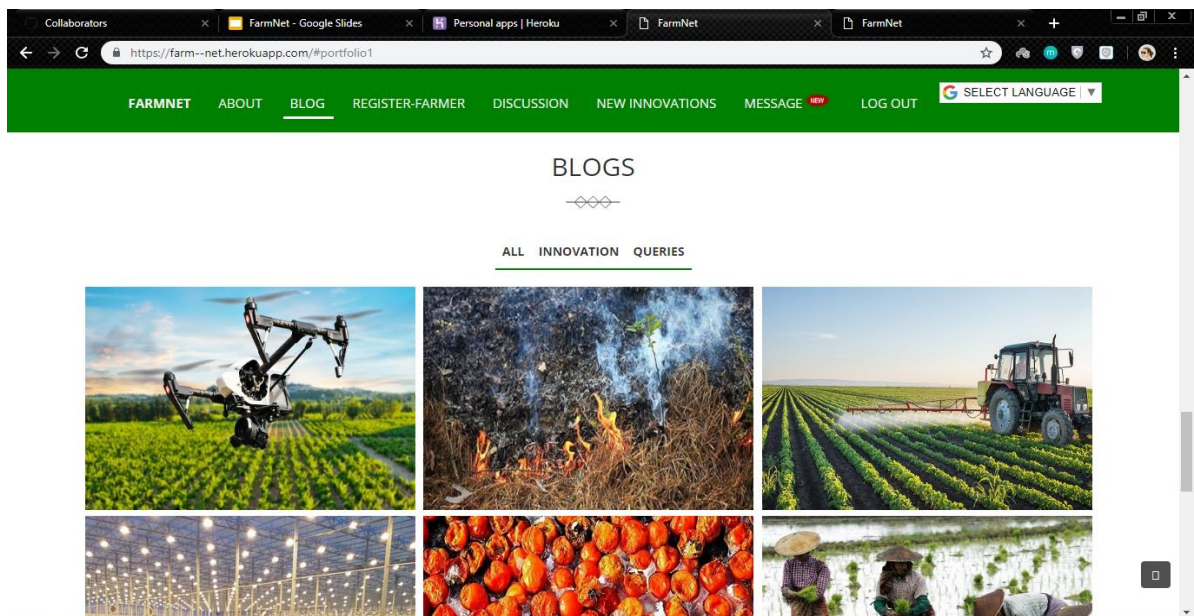
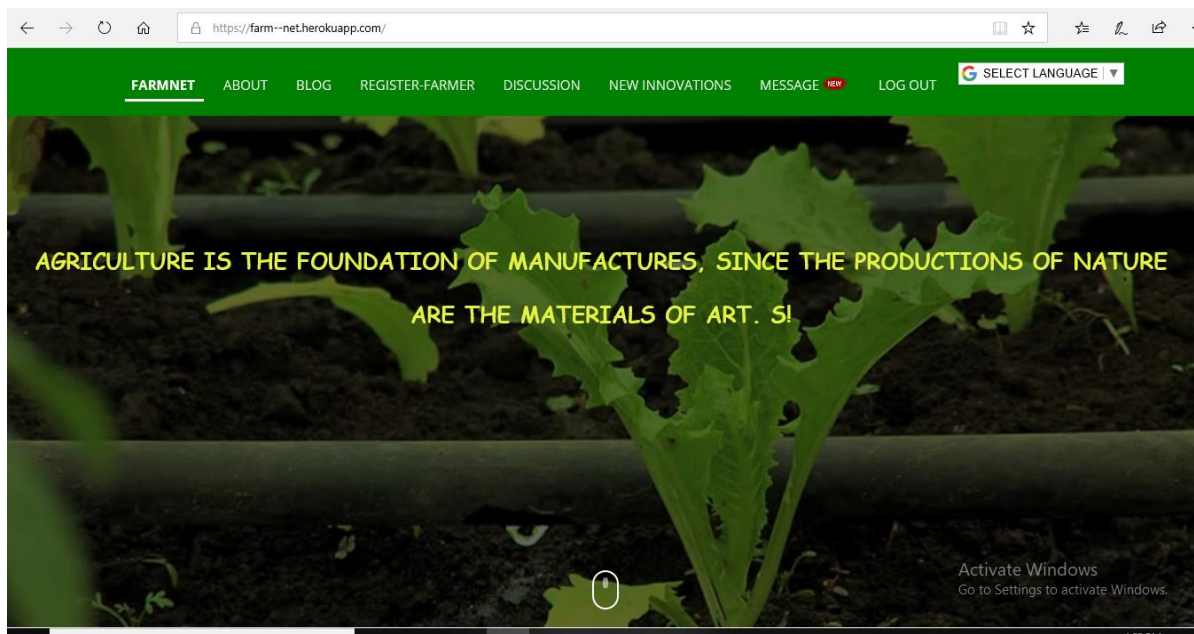
- **Implementation :**

Rancher can enlist and login into the framework once their enrollment is endorsed by administrator .When he/she signed in into the framework, can compose and post articles on different subjects or patterns of present day agribusiness additionally they can visit with one another in regards to their problems.This correspondence will be as pictures ,voice alongside the text.All ranchers can see the news source posted by every rancher and can likewise give recommendations and It will be sort out dependent on upvotes and downvotes.

The other half of system is for officials .He can view list of farmers present in particular area and can use this list for any future work .Officers can too add post, if any.If there is any particular expert lecture organized at any village or area then all the farmers of the area will be **notified by sms**.

This system would be helpful for the one who is new to farming.Also If the farmer is not satisfied with the given answer he may also take paid advice from experts.

- **Snapshots:**



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PUT YOUR INNOVATION/QUERY

◆◆◆

Type	-select- ▼
Title	<input type="text"/>
Image	<input type="button" value="Choose File"/> No file chosen
Video	<input type="button" value="Choose File"/> No file chosen
Sound clip	<input type="button" value="Choose File"/> No file chosen
Description	<input type="text"/>
<input type="button" value="ADD NOW"/>	

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NOTIFICATIONS

◆◆◆

Venue :nashik

Date : 2019-04-04T20:09
Speaker : Miss Neha Mahajan

Topic : It is regarding crop harvesting using modern technologies.Do Attend!!

Venue :Wce

Date : 2019-04-17T22:16
Speaker : Prof. Anil surve

Topic : IOT


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POSTS




Agriculture By Aircraft

Wed Apr 17 2019 05:50:15 GMT+0000 (Coordinated Universal Time)

0 comments

type :innovation
posted By :pranali



BrightFarms

Wed Apr 17 2019 10:01:05 GMT+0000 (Coordinated Universal Time)

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RECENT POST



Wed Apr 17 2019 05:50:15 GMT+0000 (Coordinated Universal Time) Posted by pranali Audio 184

Agriculture By Aircraft

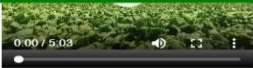
In the media, drones have mostly been associated with the military and spying, plus the odd pizza-delivery publicity stunt. An annual competition in the United Arab Emirates, UAE Drones for Good Award, acknowledges both this dark reputation and that things are changing. Competition finalists this year pitched benefits for unmanned aerial vehicles from

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0:00 / 5:03

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pranali August 25, 2014 at 9:30 PM
Nice and innovative!!


dimpal August 25, 2014 at 9:30 PM
it helped me a lot!!

pooja August 25, 2014 at 9:30 PM
nice one!

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POSTS




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0 comments

type :Innovation



BrightFarms

Wed Apr 17 2019 10:01:05 GMT+0000 (Coordinated Universal Time)

0 comments

type :Innovation

- **Advantages:**

- Query in form of audio,image,video, not in the form of text.
- Farmer will get notified through SMS.
- Regional Language Support.

- **Show Stoppers:**

- Inactivity of head of village can cause poor response from villagers.

- **Futurescope:**

- To provide Replies for Queries of farmer in Multimedia format.