

ABSTRACT

Modern day technology has been considered as a boon by the majority of our society. Today all human beings find technology making their work easier. Let's consider a farmer who plays a major role in contributing largely to our nation's economy. Digitization has made the work of farmers a lot simpler. For a work which the farmer previously needed to stand in long queues waiting for his number to be called to get his work done, it can now be done with the click of a button. Keeping this in mind we have implemented this idea on our project which involves the transactions that take place between the farmer and the manufacturer for buying an equipment/machinery required for his farm. Using this the farmer will be able to buy equipment/machinery online which will then arrive at his doorstep.

INTRODUCTION

Most people are unaware of the true significant of agriculture in our society. It's more than just to provide food to the population in a country. Agriculture does not only provide our nourishment for our daily intake but also an income source for every single nation that exists on this planet.

In India there are a total of 118.7 million farmers. And this population contributes to 18% of our country's Gross Domestic Product (GDP), hence becoming a major contributor to India's economy. When social development rose to its peak so did the importance of technology in agriculture. The farming work which was manually being done, was now operated by machines. The burden was now being lessened as man operated equipment rules the field. The importance of technology in agriculture made major changes in farming business.

Today majority of the farmers use modern farming equipment/machinery which saves them both time as well as money. Keeping this in mind we have designed this software that organizes and makes this farmer dealer transaction easier. Using this software the farmer will be able to buy equipment/machinery and he can also keep track of the equipment/machinery he owns.

PROBLEM STATEMENT

Problem Definition:

It is hard for the farmer to go from dealer to dealer as he/she has a lot of options available. Going enquiring from dealer to dealer is also a waste of time and he/she also might not be able to visit all dealer. Same holds to the various equipments from different manufacturers.

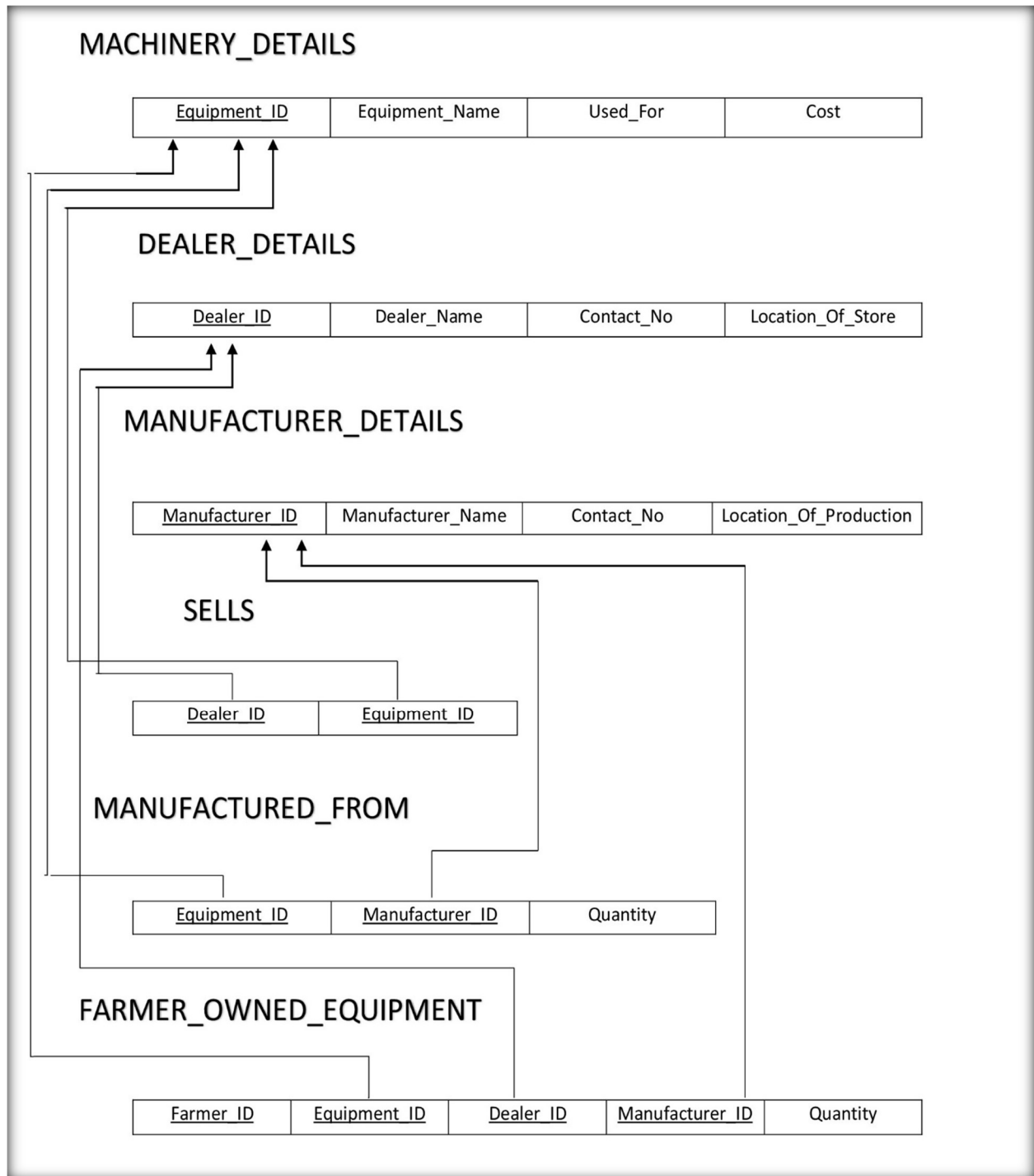
Objective:

The objective is

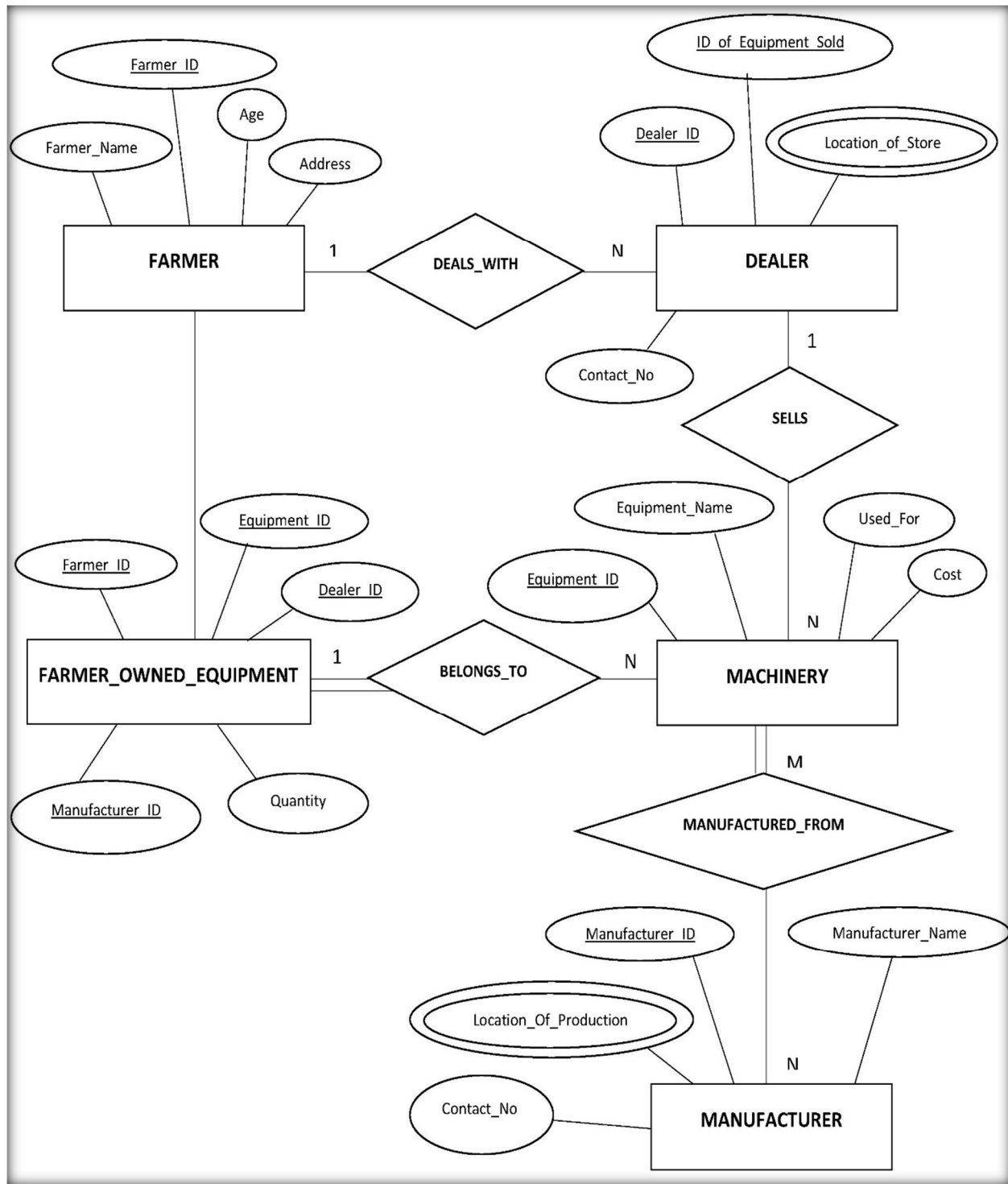
To develop a website which will show the farmer a systematic and organised list of dealers and manufacturers available. He/she will be able to choose which equipment he wants he wants to buy from which category where he will have the option to choose from the various dealers.

DATABASE DESIGN

Relational Schema Diagram:



ER Diagram:



FRONTEND TECHNOLOGY

List of software used for frontend

1. Hyper Text Markup Language (HTML)

Hypertext Markup Language is the standard markup language for creating web pages and web applications.

2. Cascading Style Sheets (CSS)

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language like HTML.

3. JavaScript

JavaScript, often abbreviated as JS, is a high-level, interpreted programming language. It is a language which is also characterized as dynamic, weakly typed, prototype-based and multi-paradigm.

BACKEND TECHNOLOGY

List of software used for Backend

1.PHP

Hypertext Preprocessor is a server-side scripting language designed for Web development, and also used as a general-purpose programming language. It was originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Group.

Database:

2.MySQL

MySQL is an open-source relational database management system. Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language.

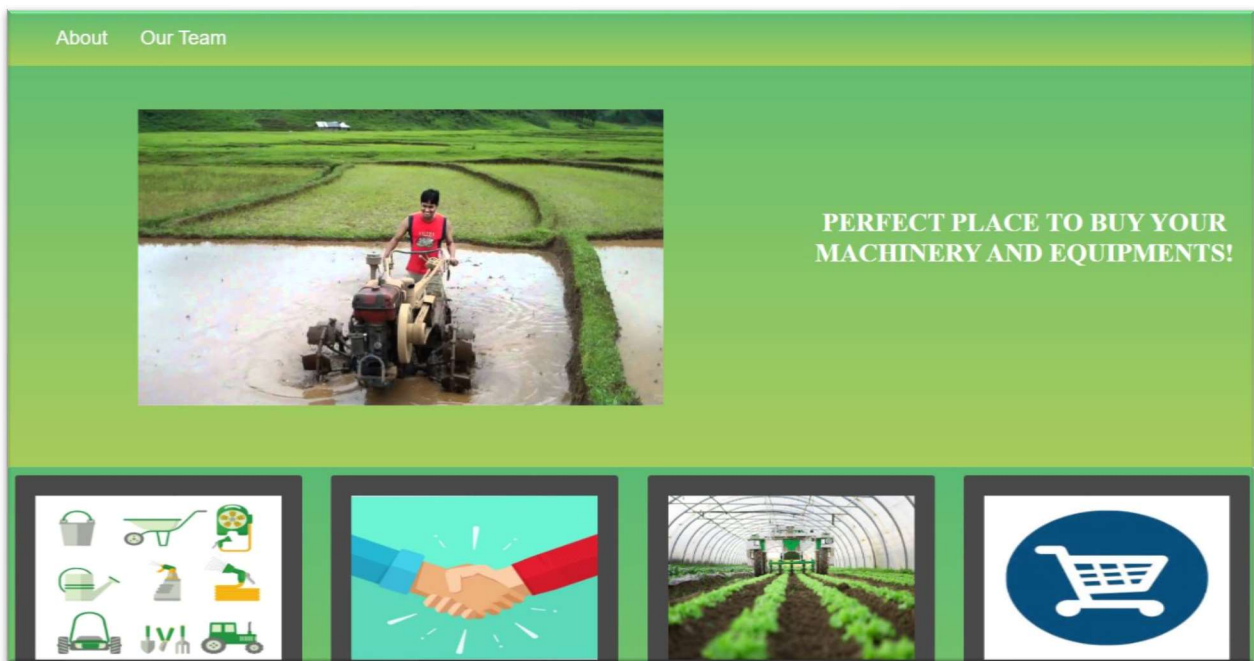
Server:

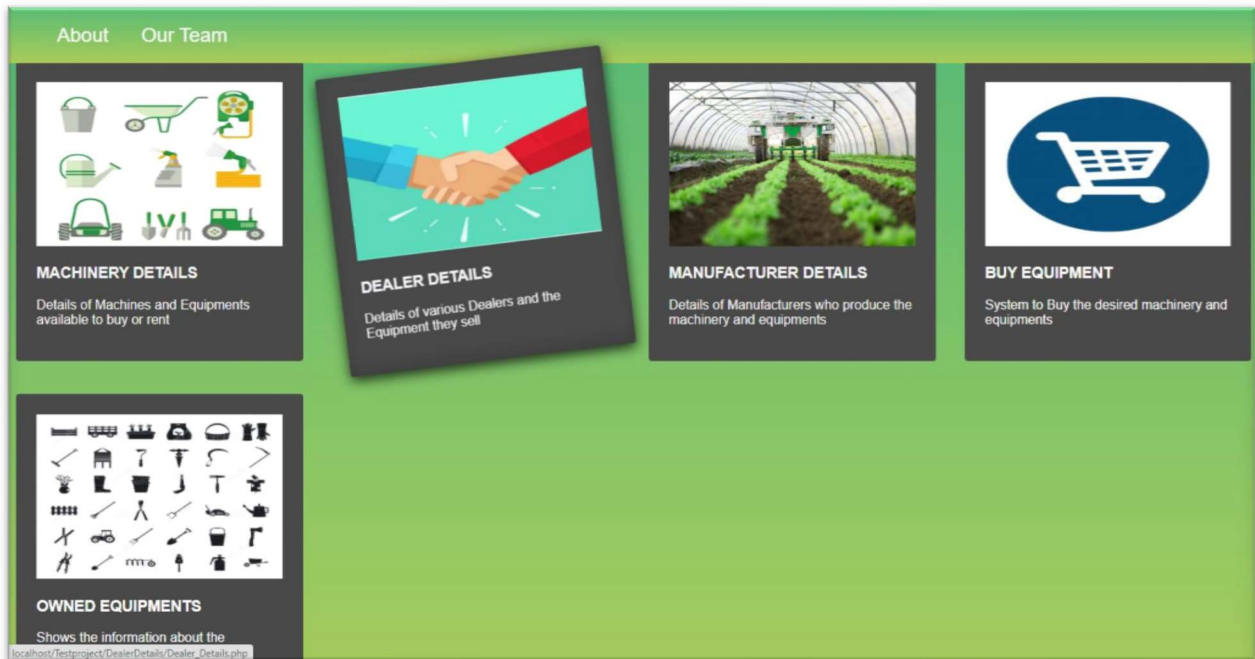
3.WAMP

WAMP is a web development platform on windows that allows you to create dynamic web applications with Apache2, PHP, MySQL. It acts like a virtual server on your computer.

WEBSITE SNAPSHOTS

1) Home page





2) Machinery details

DASHBOARD			
MACHINERY DETAILS			
Search...			
Advanced Search			
More Info			
Equipment ID	Equipment Name	Used For	Cost(Rs)
MD17890	Hand Sickle	Grass cutting	50
MD17891	Pick Axe	Digging	175
MD17892	Disc Harrow	Tilling of soil	42500
MD17893	Land Leveller	Levelling of land	10500
MD17894	Agricultural Spray Pump	Spraying insecticides	2000
MD17895	Power Harrows	Breaking up clods	150000
MD17896	Disc Ridger	Making irrigation banks	22000
MD17897	Plough	Cultivation	4000
MD17898	Grass Shrub Master	Grass Cutting	75000
MD17899	Shovel	Digging	499
MD17900	Seeder Machine	Planting seeds	160000

3) Searching for a machine

DASHBOARD			
MACHINERY DETAILS			
shovel			
Advanced Search			
More Info			
MD17899	Shovel	Digging	499

4) Selecting a machine based on category

≡ DASHBOARD

MACHINERY DETAILS

Select the Type of Equipment

-- Select the type -- OK

-- Select the type --

- Grass cutting
- Digging
- Tilling of soil
- Leveling of land
- Spraying insecticides
- Breaking up clods
- Making irrigation banks
- Cultivation
- Planting seeds
- Shade for crops
- Removing weeds
- Separate grains from crops
- Cracks seeds
- Ploughing the soil
- Removing weeds

5) Machines available in that category

≡ DASHBOARD

MACHINERY DETAILS


Select the Type of Equipment

Digging OK


Equipment ID	Equipment Name	Cost(Rs)
MD17891	Pick Axe	175
MD17899	Shovel	499

6) Viewing the images of the available machinery


DASHBOARD




Hand Sickle
Used in cutting grass and weeds
Rs 50/piece




Pick Axe
Used in digging of soil
Rs 175/piece




Disc Harrow
Used in Tilling of soil
Rs 42500/piece




Land Leveller
Used in levelling of land
Rs 10500/piece




Agricultural Spray Pump
Used for spraying pesticides and fertilizers



Power Harrows
Used for breaking up clods
Rs 150000/piece



Disc Ridger
Used for creating ridges in the field



Plough
Used for turning the soil

7) Viewing dealer details

DASHBOARD

DEALER DETAILS

Search...

Dealer ID	Dealer Name	Contact No.	Address
DD650	Shanker Agri Equipments	9845019462	Kuloor Road,Kavoor,Mangalore,Karnataka 575015
DD651	Uttam Tractors	08242452107	1st Floor,Jyothi Complex,Urwastore,Mangalore,Karnataka 575006
DD652	Easy Life Enterprises	9945836004	Canara Complex,Karavalli Junction,Udupi,Karnataka 576101
DD653	Waterwing Technologies	08242221107	Prathibha Building,Kadri Kambala Road,Kadri,Mangalore,Karnataka 575003
DD654	Newlook Farm tools	9449333640	New Uchil Bridge,Post Someshwar,Mangalore,Karnataka 575023
DD655	Chethana Agro Supplies	9480228013	Hamilton Complex,Rosario Church Road,Mangalore,Karnataka 575001
DD656	Ashinwad Pvt Ltd	9845785785	Plot No. 123C,Industrial Area,Baikampady,Mangalore,Karnataka 575011
DD657	Anupama Feeds and Farms	08258239640	Pranthiya Village,Near Paper Mill,Moodabidri,Mangalore,Karnataka 574197
DD658	Shree Maruthi Pvt Ltd	9448220198	Hector Building,DM Halli,Hassan,Karnataka 560015
DD659	Green Trac Farm Equipments	9535598055	Haroor Road,RK Colony,Ramanathapura,Karnataka 573133
DD660	Sai Sai Agro Impleents	9742550800	Hadhadi Road,16th Cross Road,KTJ Nagar,Davanagere,Karnataka 577002
DD661	Shirsat Supplies	9113281583	Dragon Store,Ruth Road,SantheKatte,Udupi,Karnataka 574111
DD662	Vindhya Associates	9449770844	Uma Madhav Mansion,Kaikamba Junction,Mangalore,Karnataka 575005
DD663	Lobo Ennterprises	9349611121	George Colony,Nanthur Road,Mangalore Karnataka 575005
DD664	Shankar and Sons	9984040003	Maruthi Road,Maruthi Road,Kodagu,Karnataka 574104

8) Viewing manufacturer details

DASHBOARD

MANUFACTURER DETAILS

Search...

Manufacturer ID	Manufacturer Name	Contact No.	Location of Production
M1700	Louisons Engineering Works	9827240055	7th Cross, Laxmi Nagar, Coimbatore, Tamil Nadu
M1701	JNP Agro Systems Pvt. Ltd.	7172390123	Durga Road, T Nagar, Chennai, Tamil Nadu
M1702	TAFE Access Limited	8839534936	5th Block, Nesting Colony, Chennai, Tamil Nadu
M1703	Bharath Farm Implements	8069695856	Bharat Nagar, Borivalli East, Mumbai, Maharastra
M1704	Everest Industries	9980908405	4th Block, JP Colony, Udumalpet, Tamil Nadu
M1705	Ramakumar Industries	7076554546	Nazam Street, Vaikur, Hyderabad, Andhra Pradesh
M1706	Farm Implements (India) Pvt. Ltd.	9765478911	1st Cross, Bolon Street, Patna, Bihar
M1707	Irridyne Agro Implements Pvt. Ltd.	8359523659	Dhokla Nagar, Dholakpur, Surat, Gujarat

9) Buying an equipment/machine

BUY AN EQUIPMENT:

Select the name of the Machinery/Equipment:

-- Select a Machinery/Equipment --

OK

Pieces: 0

Enter the Date: 04-11-2019

Buy

Reset

HOME

10) Selecting the equipment/machine to buy

BUY AN EQUIPMENT:

Select the name of the Machinery/Equipment:

Pick

Enter

9

HOME

-- Select a Machinery/Equipment --

-- Select a Machinery/Equipment --

Hand Sickle

Pick Axe

Disc Harrow

Land Leveller

Agricultural Spray Pump

Power Harrows

Disc Ridger

Plough

Grass Shrub Master

Shovel

Seeder Machine

Agro Shade Net

Power Weeder

Maize Sheller

Seed Cracker

Farm Tiller

Mini Disc Harrow

Pro Maize Husker

Centre Rotary Power Weeder

OK

11) Viewing the available dealers selling that machine

Select the name of the Machinery/Equipment:

Pick Axe

OK

Machinery/Equipment: Pick Axe

More Info

Select the Dealer:

Option	Dealer Name	Location	Pieces	Cost	Manufacturer Name
<input type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	5	175	Louisons Engineering Works
<input type="radio"/>	Chethana Agro Supplies	Hamilton Complex,Rosario Church Road,Mangalore,Karnataka 575001	5	175	Louisons Engineering Works
<input type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	21	175	Farm Implements (India) Pvt. Ltd.
<input checked="" type="radio"/>	Chethana Agro Supplies	Hamilton Complex,Rosario Church Road,Mangalore,Karnataka 575001	21	175	Farm Implements (India) Pvt. Ltd.

Pieces: 0

12) Selecting the quantity

Select the Dealer:

Option	Dealer Name	Location	Pieces	Cost	Manufacturer Name
<input type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	5	175	Louisons Engineering Works
<input type="radio"/>	Chethana Agro Supplies	Hamilton Complex,Rosario Church Road,Mangalore,Karnataka 575001	5	175	Louisons Engineering Works
<input checked="" type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	21	175	Farm Implements (India) Pvt. Ltd.
<input type="radio"/>	Chethana Agro Supplies	Hamilton Complex,Rosario Church Road,Mangalore,Karnataka 575001	21	175	Farm Implements (India) Pvt. Ltd.

Pieces:

Enter the Date:

HOME

13) Generating the bill

BILL RECEIPT

Farmer ID	Equipment Name	Piece(s)	Dealer Name	Cost(Rs)	Date
F9999	Pick Axe	3	Shanker Agri Equipments	175	2019-11-04

14) Update in the quantity available after buying

Machinery/Equipment: Pick Axe

[More Info](#)

Select the Dealer:

Option	Dealer Name	Location	Pieces	Cost	Manufacturer Name
<input type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	5	175	Louisons Engineering Works
<input type="radio"/>	Chethana Agro Supplies	Hamilton Complex,Rosario Church Road,Mangalore,Karnataka 575001	5	175	Louisons Engineering Works
<input type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	18	175	Farm Implements (India) Pvt. Ltd.
<input checked="" type="radio"/>	Chethana Agro Supplies	Hamilton Complex,Rosario Church Road,Mangalore,Karnataka 575001	18	175	Farm Implements (India) Pvt. Ltd.

Pieces:

Enter the Date:

[Buy](#) [Reset](#)

15) Viewing the equipments bought

DASHBOARD

EQUIPMENTS BOUGHT

Equipment ID	Dealer ID	Manufacturer ID	Piece(s)	Sell
MD17891	DD650	M1706	3	Sell

16) Buying another equipment

Hand Sickle

OK

Machinery/Equipment: Hand Sickle

More Info

Select the Dealer:

Option	Dealer Name	Location	Pieces	Cost	Manufacturer Name
<input type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	3	50	Louisons Engineering Works
<input type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	7	50	TAFE Access Limited
<input checked="" type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	17	50	Everest Industries
<input type="radio"/>	Shanker Agri Equipments	Kuloor Road,Kavoor,Mangalore,Karnataka 575015	14	50	Ramakumar Industries

Pieces: 6

Enter the Date: 04-11-2019

Buy

Reset

17) All equipments owned

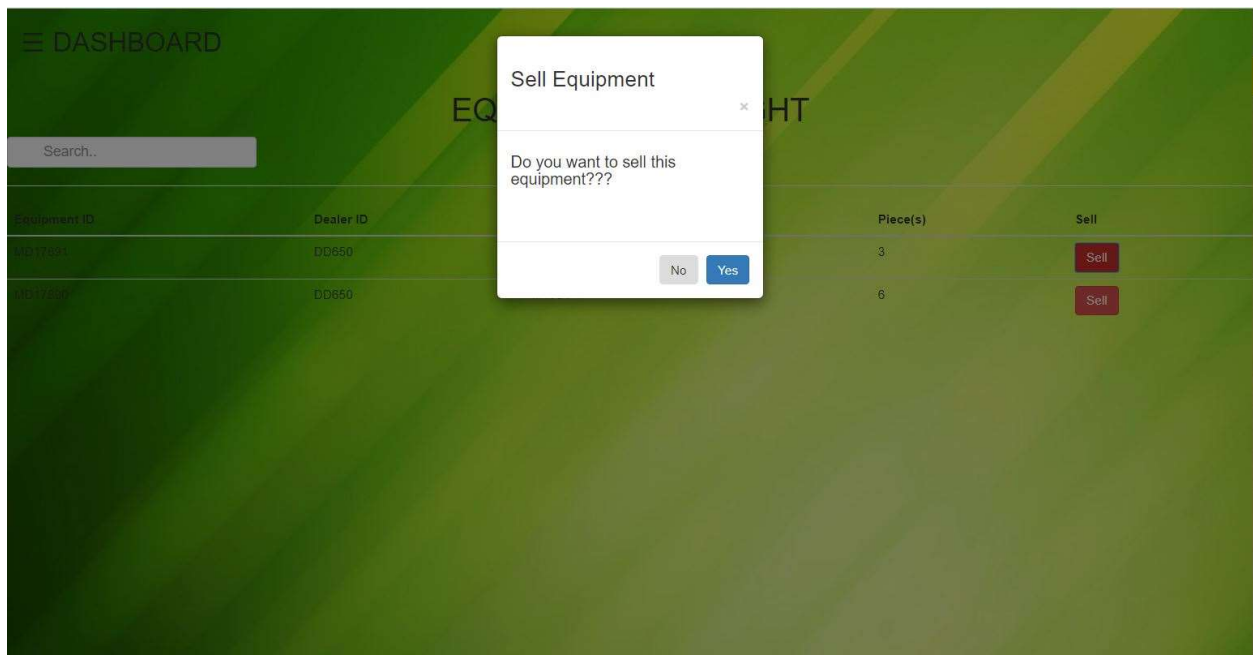
DASHBOARD

EQUIPMENTS BOUGHT

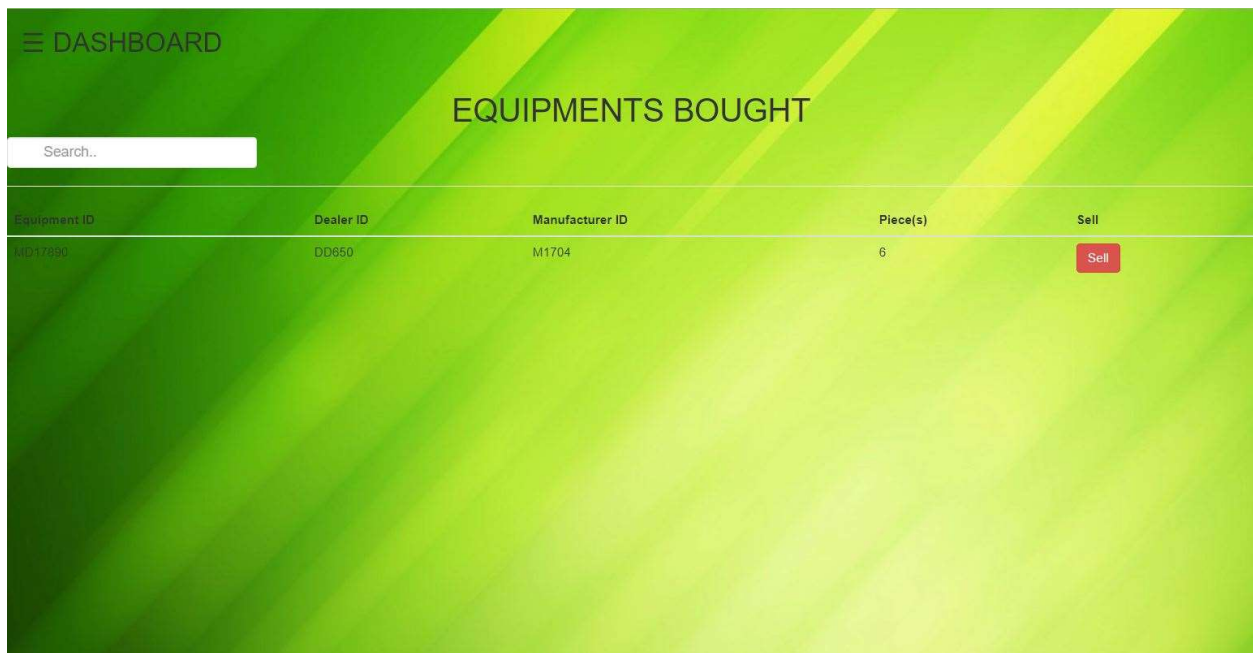
Search..

Equipment ID	Dealer ID	Manufacturer ID	Piece(s)	Sell
MD17891	DD650	M1706	3	<div>Sell</div>
MD17890	DD650	M1704	6	<div>Sell</div>

18) Selling an equipment



19) Changes in owned equipment table after deletion



CONCLUSION

This '**Online Farming Equipment/Machinery Buying System**' is successfully designed and developed to fulfilling the necessary requirements as the system is very much user friendly and very efficient. This project has been developed to meet the real world transactions happening in the present world.

This system allows the administrator to store farming equipment/machinery details along with category under which it comes. The implementation of the system in the organization will considerably reduce data entry and time. Here the farmer will also be able to view through details of the dealer as well as the manufacturer thus making it easy for him to gather the required information.

Keeping in mind all the real world problems faced by a farmer for buying equipment/machinery we have designed this system which makes the farmer's task of buying the equipment/machinery in the market simpler with just the click of a button.

REFERENCES

- www.indiamart.com
- www.w3schools.com