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 famer 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.

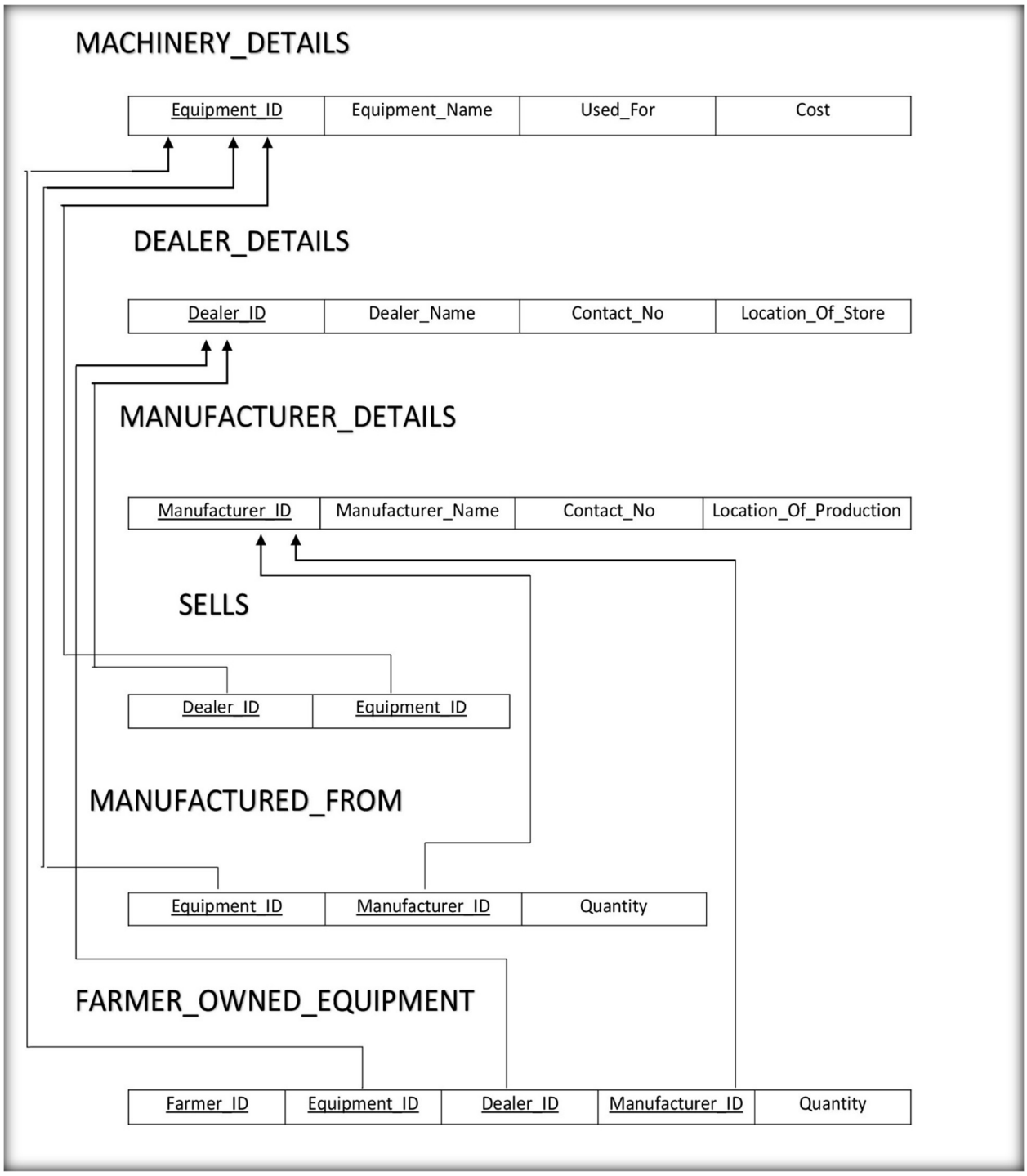
Objective:

The objective is

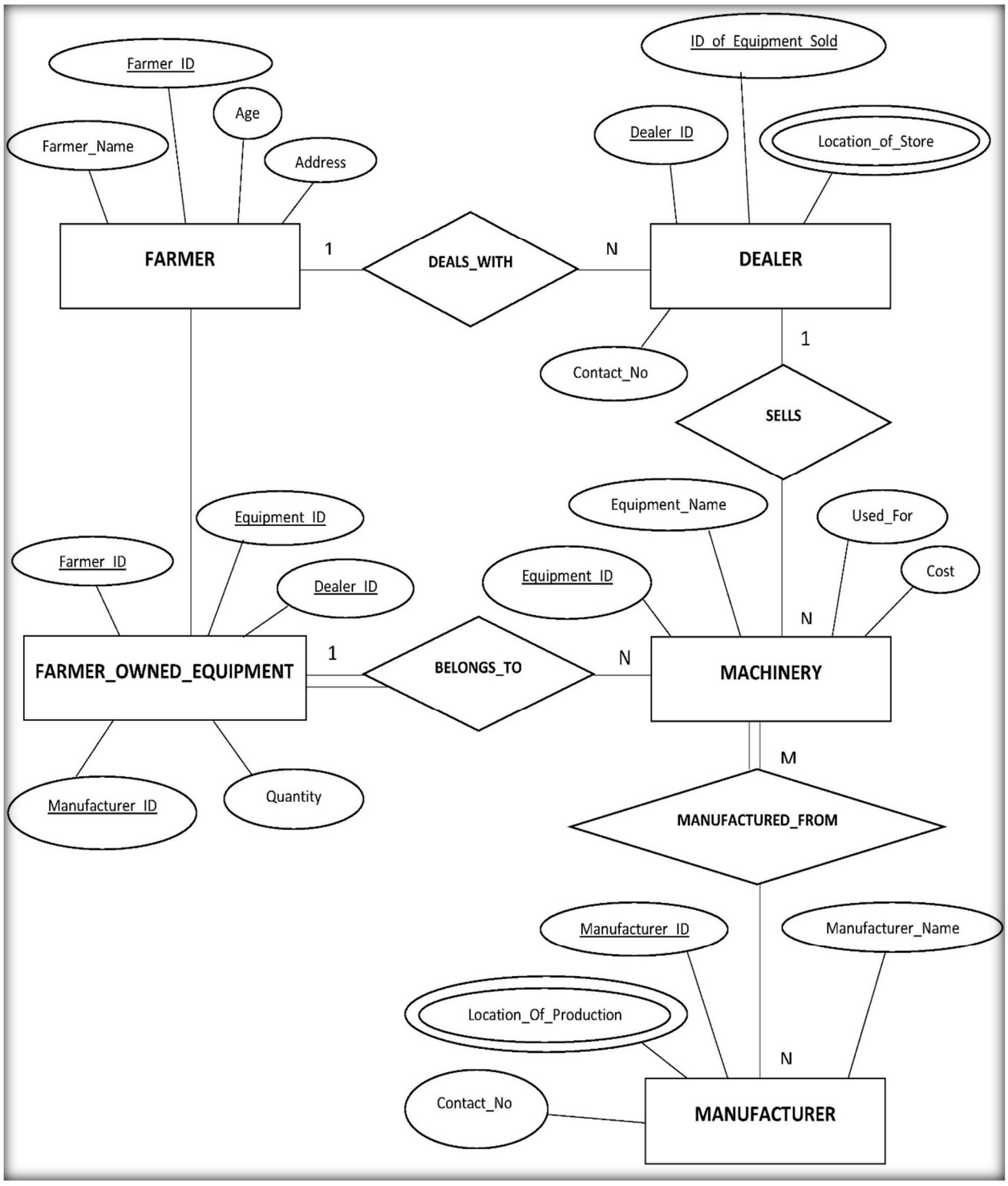
To develop a website which will show the farmer a systematic and organised list of dealers and manufacturers available. He/she will be able to choose which equipment he wants he wants to buy from which category where he will have the option to choose from the various dealers.

DATABASE DESIGN

Relational Schema Diagram:



ER Diagram:


Farmer_ID
Age
Farmer_Name
Address
FARMER
1
DEALS_WITH
N
DEALER
ID_of_Equipment_Sold
Dealer_ID
Location_of_Store
Contact_No
1
SELLS
Equipment_ID
Farmer_ID
Dealer_ID
FARMER_OWNED_EQUIPMENT
1
BELONGS_TO
N
Equipment_ID
Equipment_Name
Used_For
Cost
N
MACHINERY
M
MANUFACTURED_FROM
Manufacturer_ID
Quantity
Manufacturer_ID
Manufacturer_Name
Location_Of_Production
N
Contact_No
MANUFACTURER

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.

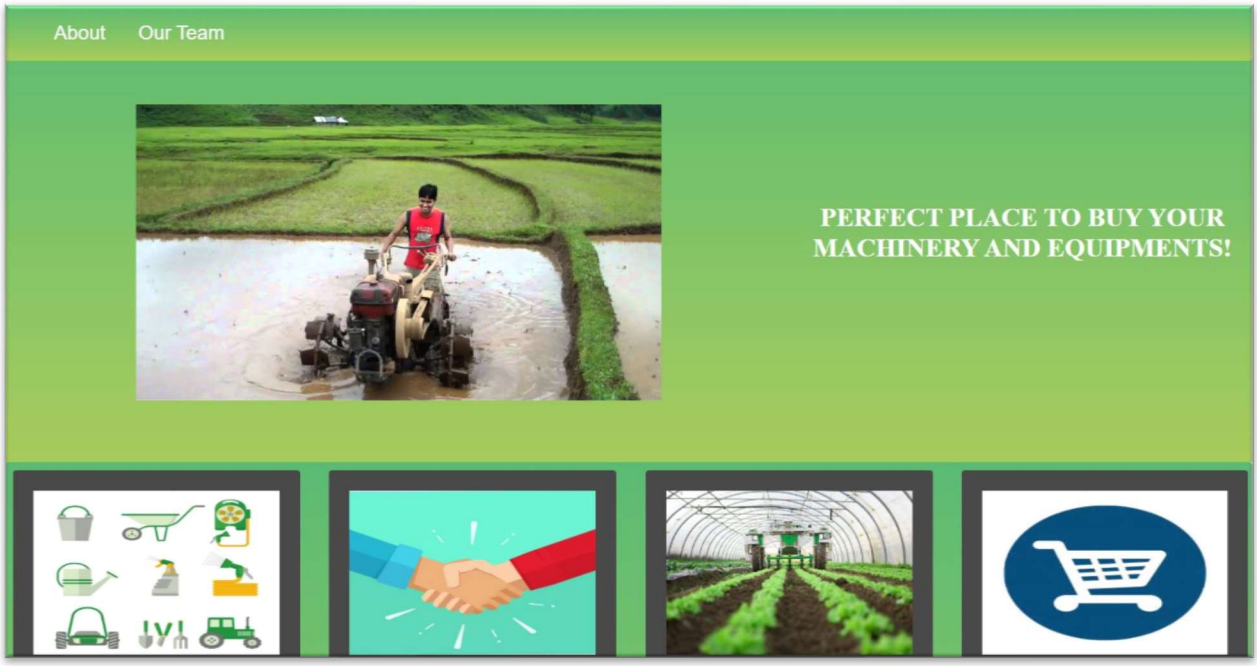
Server:

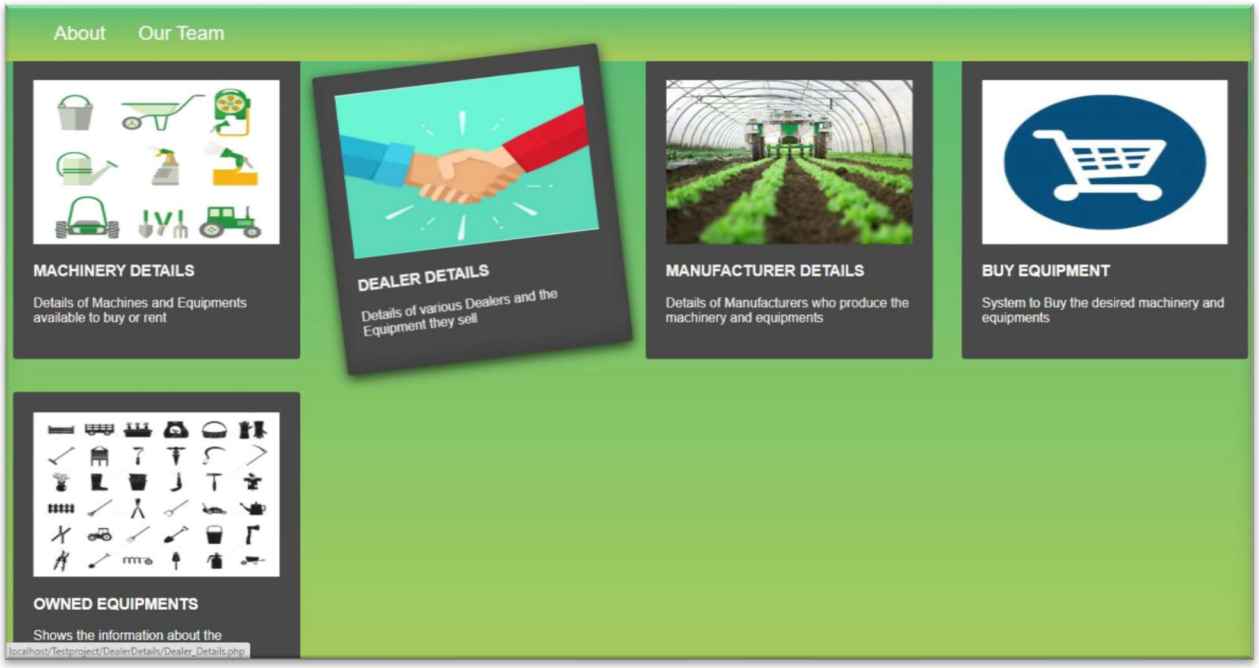
3.WAMP

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

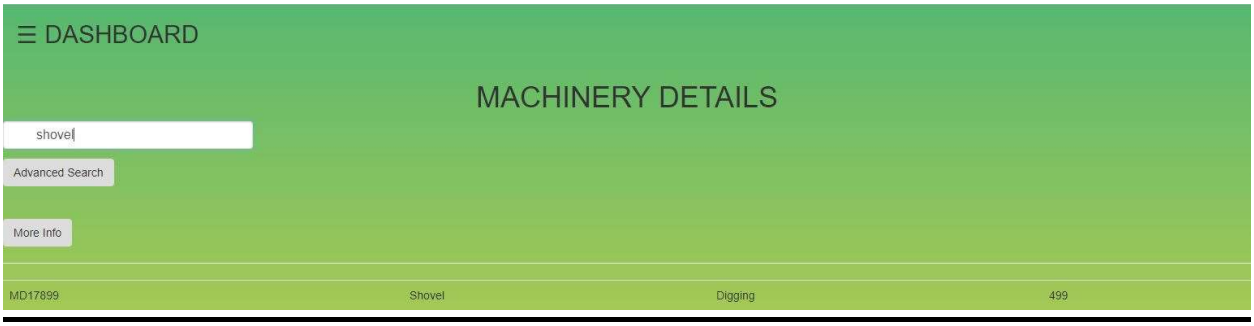



About
Our Team
MACHINERY DETAILS
Details of Machines and Equipments available to buy or rent
DEALER DETAILS
Details of various Dealers and the Equipment they sell
MANUFACTURER DETAILS
Details of Manufacturers who produce the machinery and equipments
BUY EQUIPMENT
System to Buy the desired machinery and equipments
OWNED EQUIPMENTS
Shows the information about the
localhost/Testproject/DealerDetails/Dealer_Details.php

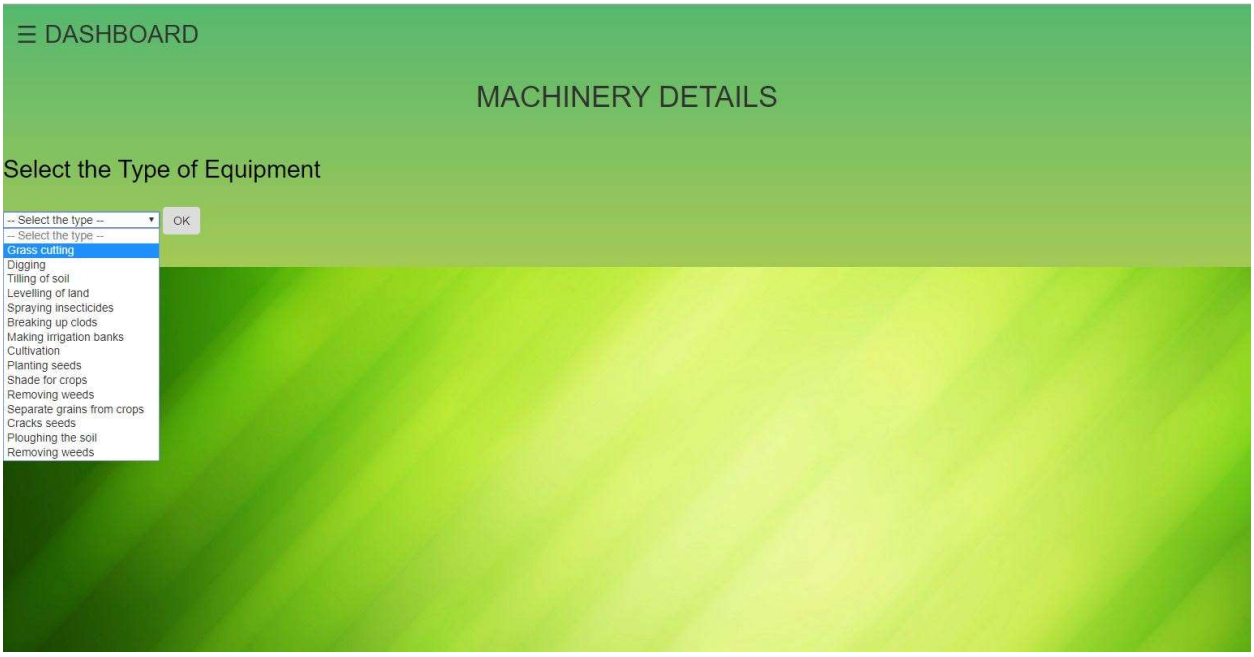
About
Machinery Details
Dealer Details
Manufacturer Details
Buy Equipment
Owned Equipment
☰ DASHBOARD
FARMER MACHINERY AND EQUIPMENTS
localhost/Testproject/start.html#

2) Machinery details

3) Searching for a machine

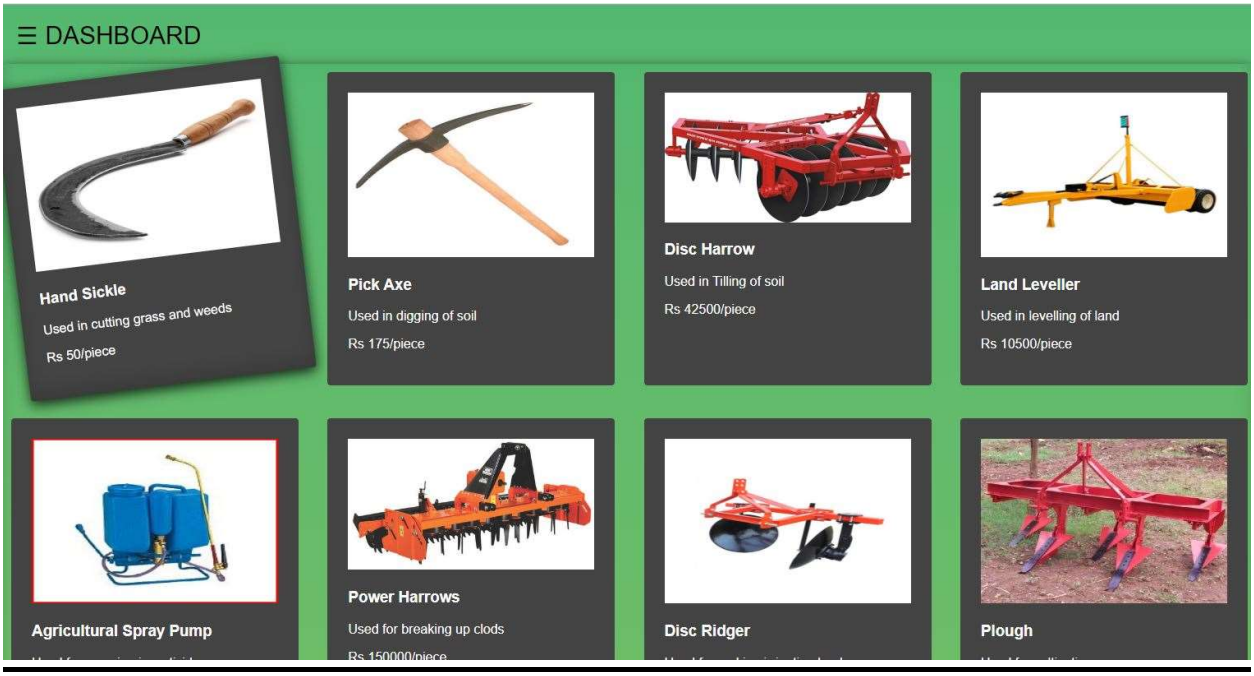


4) Selecting a machine based on category

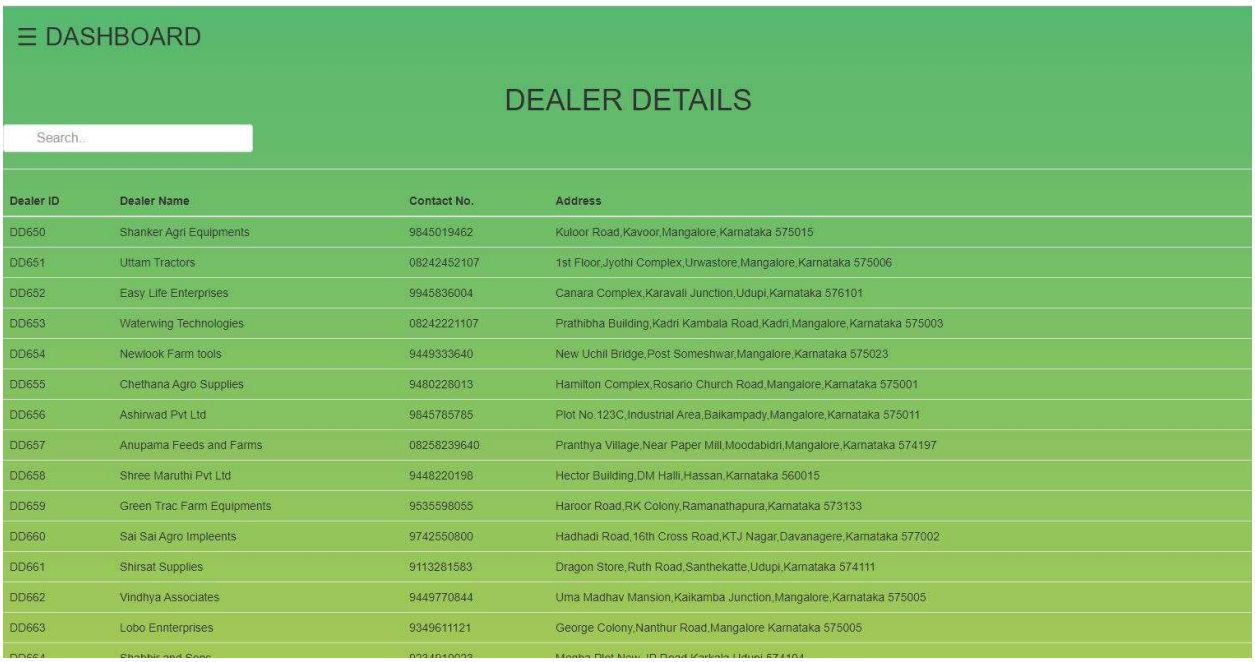


5) Machines available in that category

6) Viewing the images of the available machinery



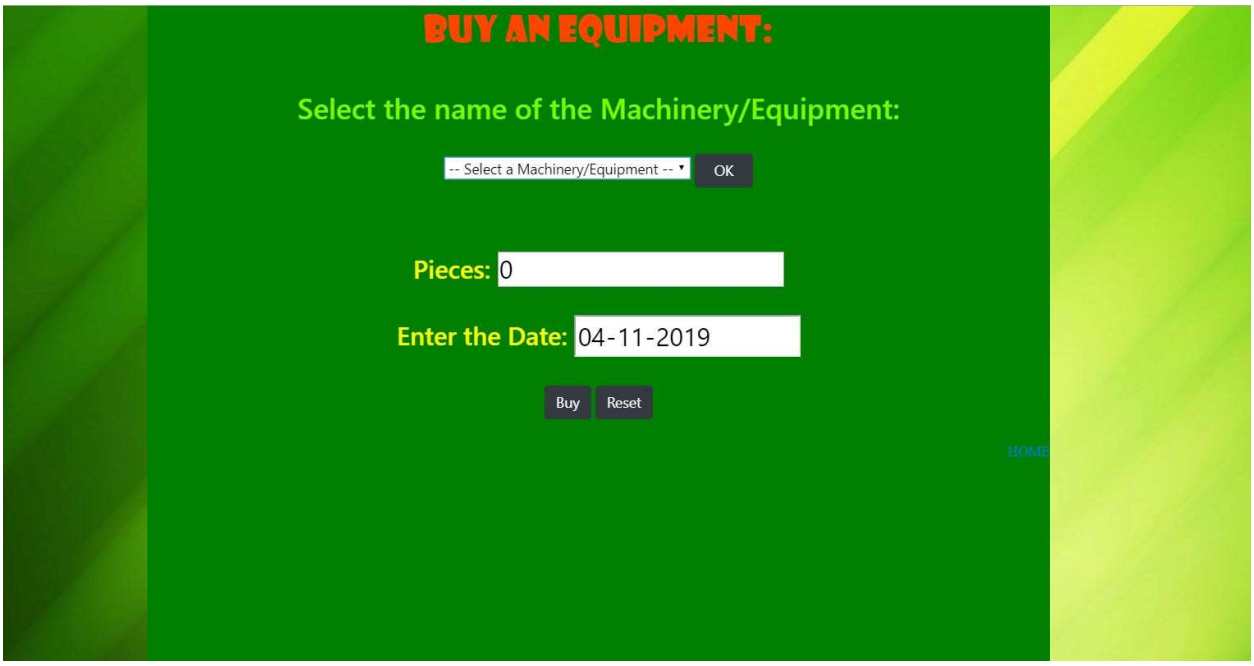
7) Viewing dealer details



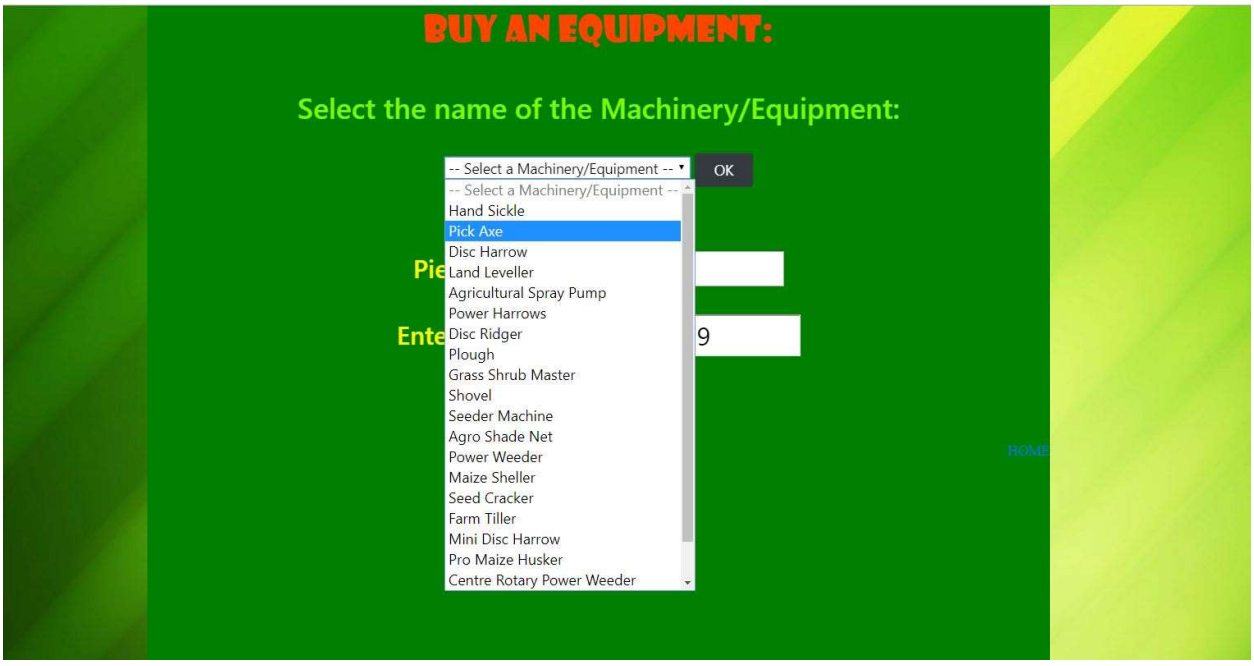
Dealer ID	Dealer Name	Contact No.	Address
DD650	Shanker Agri Equipments	9845019462	Kuloor Road,Kavoor,Mangalore,Karnataka 575015
DD651	Uttam Tractors	08242452107	1st Floor,Jyothi Complex,Urwastore,Mangalore,Karnataka 575006
DD652	Easy Life Enterprises	9945836004	Canara Complex,Karavali Junction,Udupi,Karnataka 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	Ashirwad Pvt Ltd	9845785785	Plot No.123C,Industrial Area,Baikampady,Mangalore,Karnataka 575011
DD657	Anupama Feeds and Farms	08258239640	Pranthya 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 Enterprises	9349611121	George Colony,Nanthur Road,Mangalore Karnataka 575005

8) Viewing manufacturer details

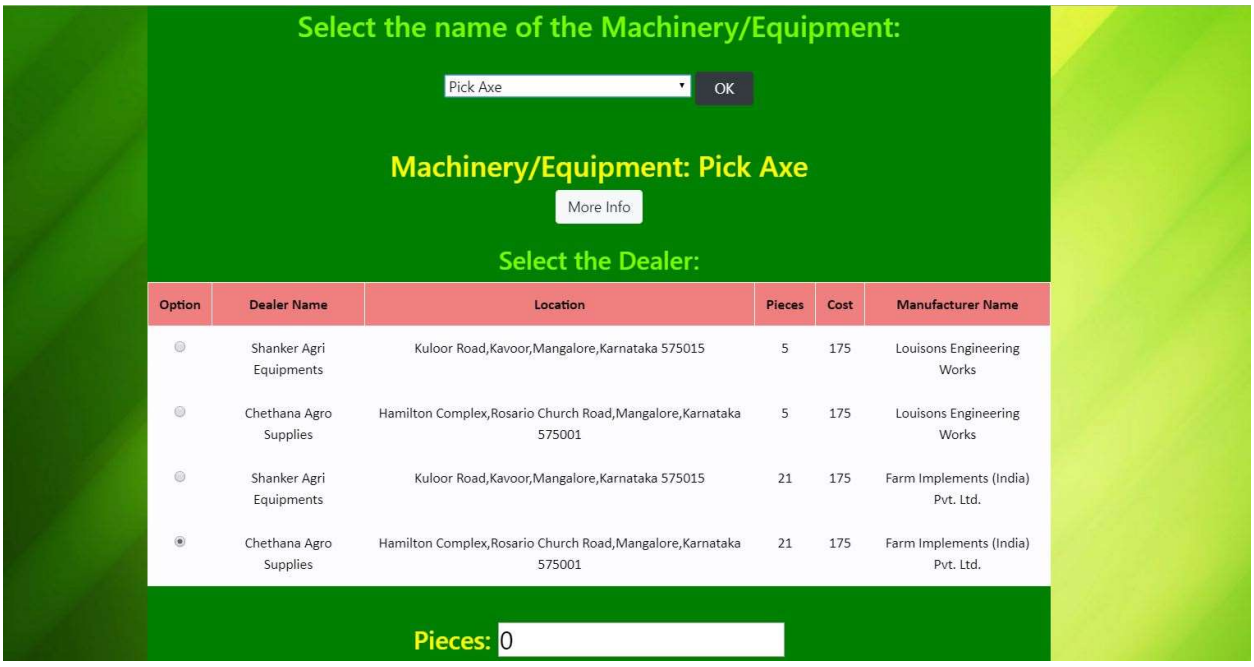
9) Buying an equipment/machine



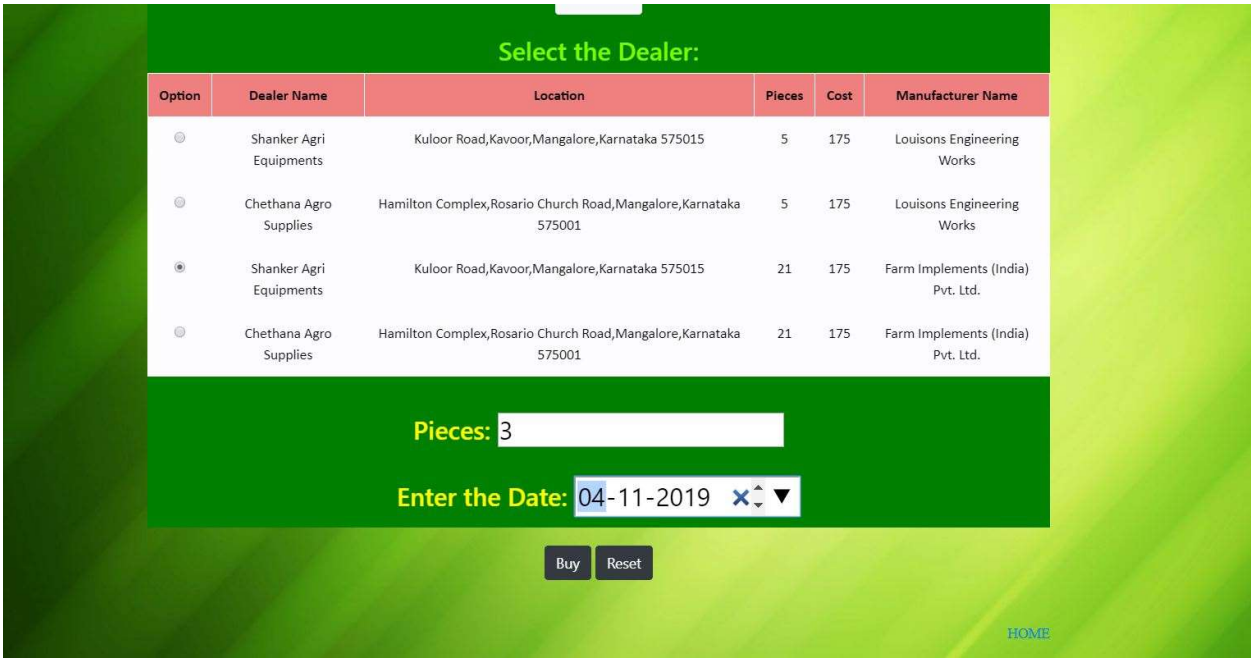
10) Selecting the equipment/machine to buy



11) Viewing the available dealers selling that machine



12) Selecting the quantity

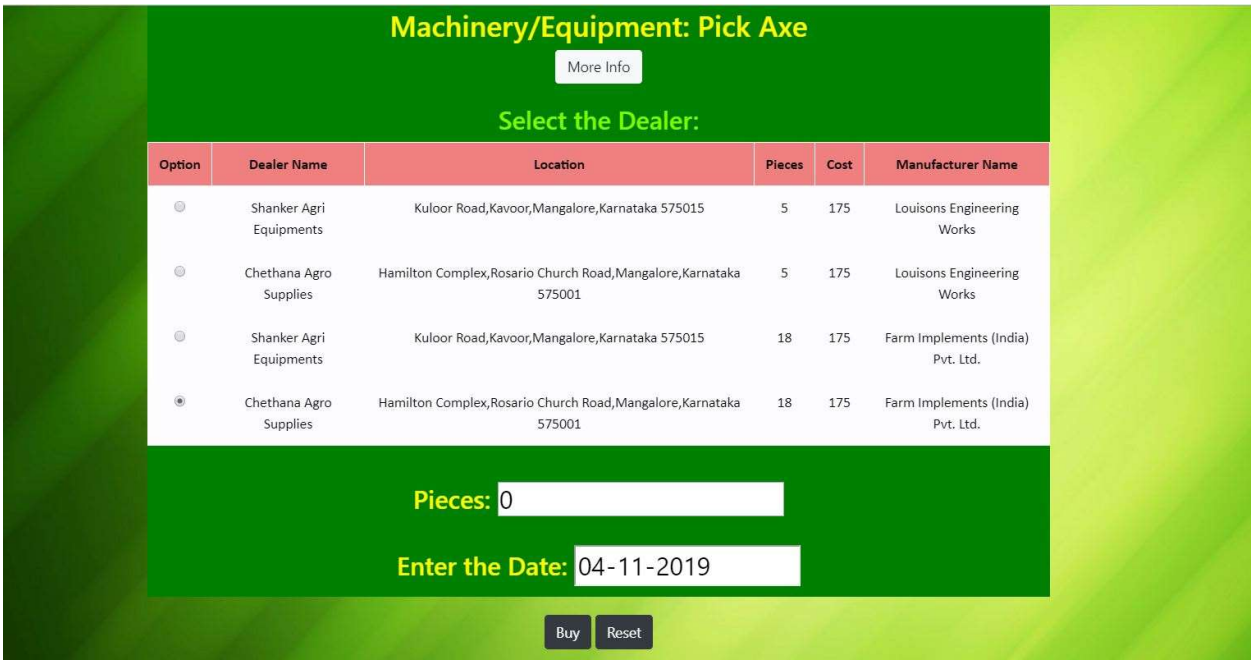


13) Generating the bill

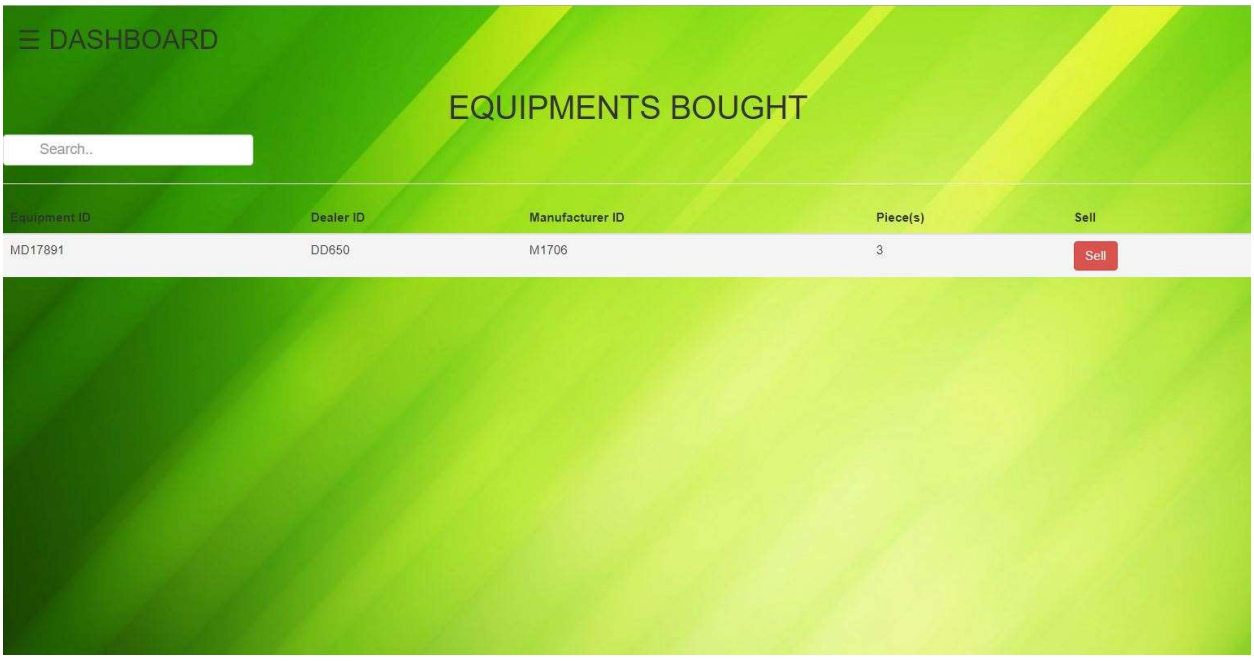
BILL RECEIPT

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

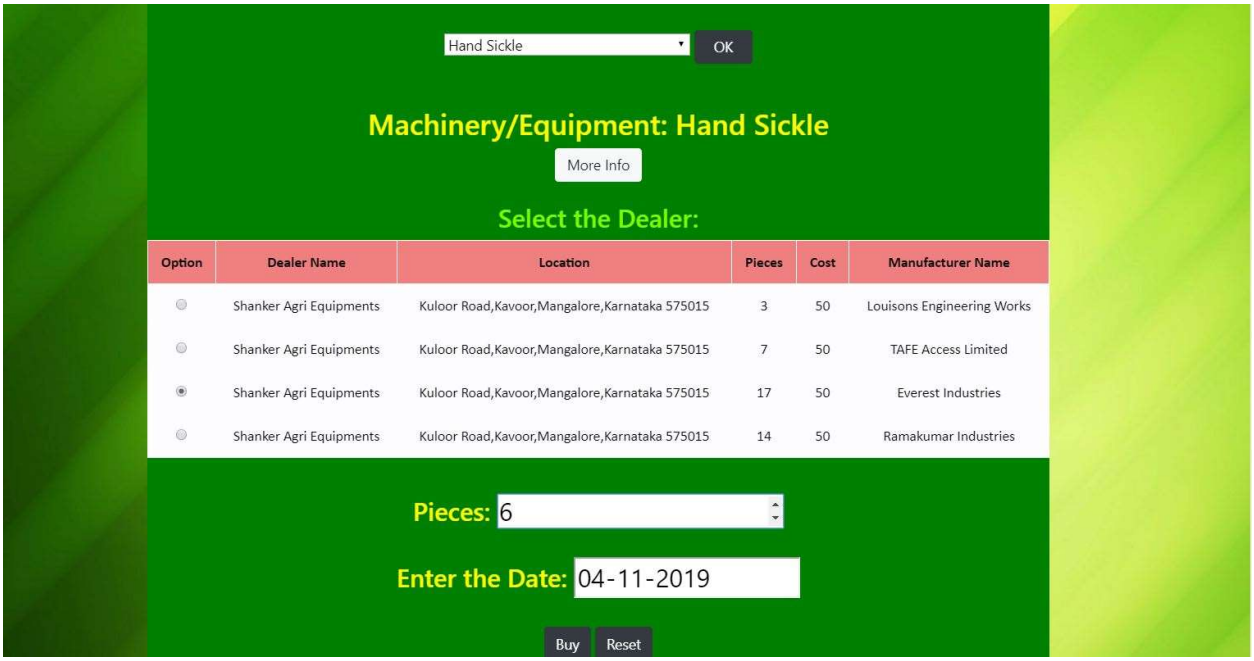
14) Update in the quantity available after buying



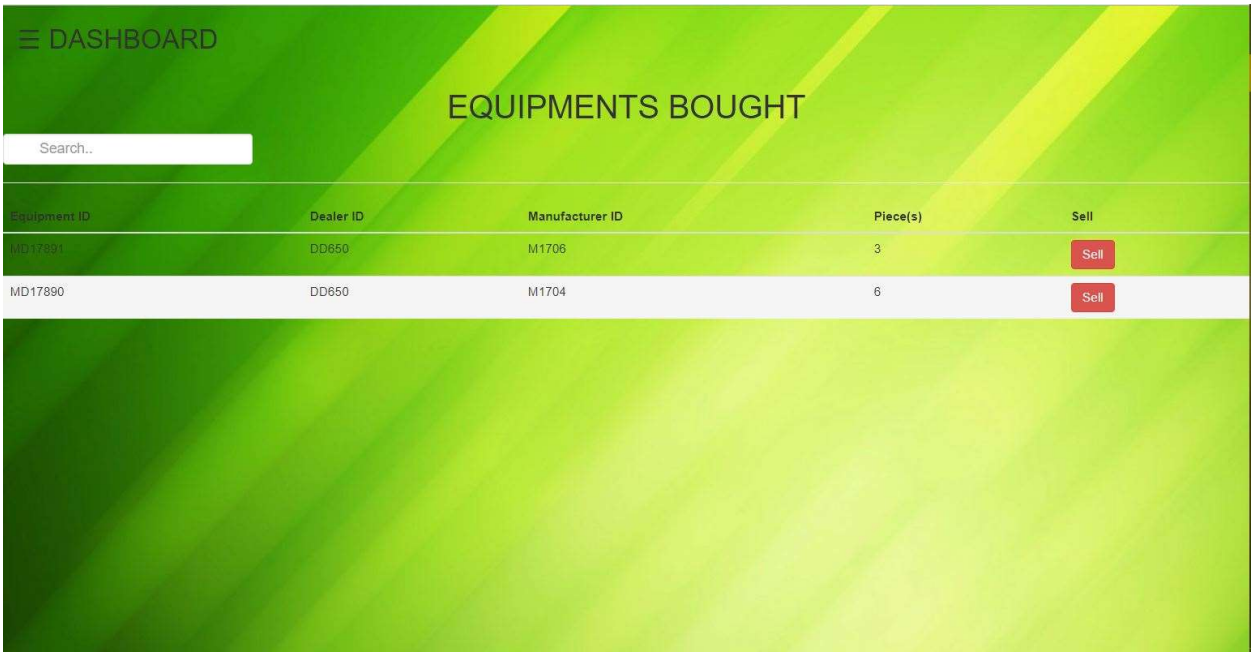
15) Viewing the equipments bought



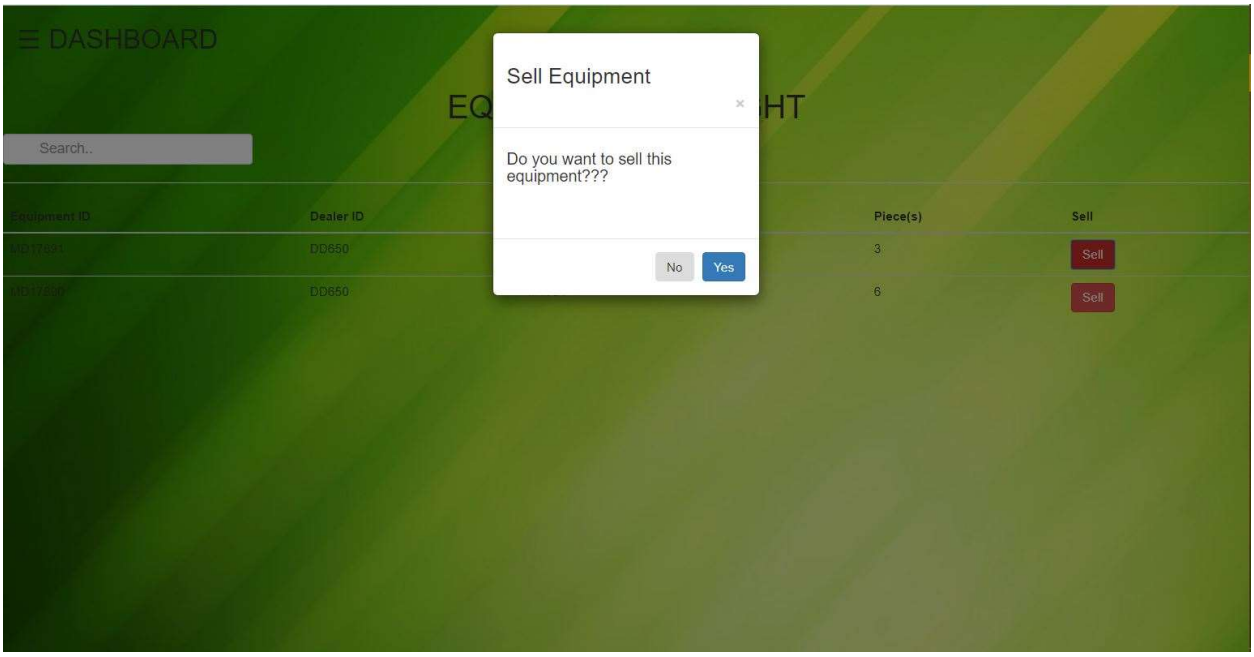
16) Buying another equipment



17) All equipments owned



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