# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA" BELAGAVI,KARNATAKA,INDIA-590018

A Mini Project Report on

## AGRICULTURE MANAGEMENT SYSTEM (E-FARMING)

Submitted In partial fulfillment towards DBMS Mini Project Work of 5th semister Bachelor of Engineering

In

COMPUTER SCIENCE AND ENGINEERING

Submitted By


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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING 2018-19**

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING


# *CERTIFICATE*

This is to certify that the mini project work entitled **"E-FARMING"** is a bonafide work carried out by **YASHAS P (4MU16CS081) , HARSHITHA K (4MU16CS086) and PRAJWAL H S (4MU16CS088)** in partial fulfilment for the DBMS Laboratory with Mini Project prescribed by the Visvesvaraya Technological University, Belagavi during the year 2018-2019 for the fifth semester B.E. Computer Science and Engineering. The project report has been approved as it satisfies the academic requirements with respect to the mini project work prescribed for the fifth semester DBMS Lab with Mini Project.

Signature of Guide
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Signature of HOD
**Mrs. SOWMYA B**
(Assistant Professor & Head, CS&E)

Name of the Examiners Signature with date
1.

2.

# ACKNOWLEDGEMENT

We sincerely owe our gratitude to all the persons who helped and guided us in completing this mini project work.

We are thankful to **Dr. Suresh Chandra, Principal, MRIT**, **Mandya**, for having supported us in our academic endeavors.

We are extremely thankful to **Asst Prof. Mrs Soumya B , Head Department of Computer Science and Engineering,** for his valuable support and his timely inquiries into the progress of the work.

We express our earnest gratitude towards our guide**, Asst. Professor,Divya K S Department of Computer Science and Engineering,** who helped us in getting things done and was always inspirational.

We are greatly indebted to our guide **, Asst. Professor, Department of Computer Science and Engineering,** for her consistent co-operation and support.

We are obliged to all **teaching and non-teaching staff members** of **Department of Computer Science and Engineering, Mandya** for the valuable information provided by them in their respective fields .We are grateful for their co-operation during the period of our project.

Lastly we thank almighty, our **parents** and **friends** for their constant encouragement without which this project would not be possible.

**YASHAS P**
**HARSHITHA K**
**PRAJWAL H S**

# E - FARMING

# CONTENTS

# ABSTRACT

Modern agricultural systems have been developed application of fertilizer, soil, climate,crop rotation, and genetic manipulation of crop plants. Each practice is used for soil,farming system each depends on the others and need for using the others. The work of fertilizer in agricultural production, has been key to the development of these practices. the different module more technology in agriculture . user details and problems different place solved for officer.Development procesor overall provider suggestion agriculture is that it will continue on through out the future, providing for those who need us most.

E-Farming is a Java & MySQL-based application which gives an idea to the farmers how to use e-farming to sell their products. Farmers will get all the new ideas to improve their productivity and they can buy and sell their products online.

Horticulture concept and Android is used for a Farmer Helping Service system that will provide the detail information of fruits, vegetables to the farmers. And this information will also provide information in audio form also. This system can provide information using android smart phone from anywhere and anytime without using internet and at free of cost. It is very useful to Maharashtra Farmer because they will get information in Marathi Language just by typing number from the mobile keypad. An illiterate person can also easily operate the system.

# CHAPTER 1 : INTRODUCTION

## 1.1: About Project :

E-Farming is a web application developed for farmers. This application gives suppose to the village farmers who want to use this facility and who want to learn how is it possible and how they can use e-farming to sell their products.

If the farmers have knowledge of computer then they can directly register in the site and sell their product otherwise they can contact company's computer professional who will schedule classes to teach the basics of computers and internet. They can know how they can open this site and register with it and sell their products online etc.

E-Farming is a project developed to build a website which will help farmers from to sell their products to different cities through online. Farmers can use this facility and can learn how is it possible and how they can use e-farming to sell their products.

It also provides information about crops, fertilizers, and market details that are requested. Online query handlings for all users. Queries can be posted by students, general public through mails. Queries can be directed to a particular officer. Information pages should be dynamic so that agricultural officers and administrator can change it.

## 1.2. Project Purpose :

It is an open discussion portal used for agricultural students and farmers. Any general public can use this system for knowing the information about various crops, and the usage of fertilizers to those crops and in which soil these crops give more yield and the climatic conditions for those crops.
Current prices of the markets are updated daily by the NGO. It gives information regarding all the states in India.

This **E-Farming Java** Project has the major modules below:

- **Admin:**

Admin should be able to see all record from any users. The records shown for selling should be available in a format of Quantity name, Quantity available, price. The database should be robust enough to handle all the online transactions which will be happening parallel.

- **Users:**

People can register on the site for some basic e-learning like if some user wants to learn how to operate a computer, they can go and learn about it from the site. The site should also be available in local languages as per States.
Computer professionals:
Automatic transfer of emails to company's computer professional if some user enrolled for basic course There should be a facility of scheduling classes for farmers who enrolled for basic courses.

- **Seller:**

The seller can fill the registration form and get his credentials. All the details of the product will be uploaded by the seller. Seller will fix the rates of the products. The seller can view the result page. Seller will add the details of the item. The seller can update the details of the item.

- **Buyer:**

Buyer will get the username and password by filling the registration form. Buyer will view all the details of the product. Buyer will see the list of products that he want to buy. Buyer can view the sales rate details.

- **Reports:**

Daily report of enrollment to Admin. Monthly report of enrollment as per states to Admin. Work hours use of Computer professionals on a monthly basis to Admin.

### 1.3. Project Scope :-

- Providing accessibility to all users who have a valid UserID and password.
- Generating monthly and daily reports of the market
- User can post query. They can see answers only after they have logged in.
- Communication is provided for the users through emails and phone numbers.

# CHAPTER 2 : LITERATURE SURVEY

## 2.1.Existing System :

In the existing system buying and selling a product is done manually. Price of the product is fixed by the seller. All the details of the product to be sold or purchased is maintained manually. Sellers or buyers not able to get the complete information about the product.

## 2.2.Limitations in existing system :

Slow agricultural growth is a concern for policymakers as some two-thirds of India's people depend on rural employment for a living. Current agricultural practices are neither economically nor environmentally sustainable and India's yields for many agricultural commodities are low.

A major drawback of India's agriculture, watershed development irrigation strategy, seed management, improving yield bank and insurances are provided loans to farmers has been the neglect of relatively wetter catchment areas and the rural people living therein.

- Lack of security.
- This system does not provide category wise classifications of products.
- Inefficiency in querying details.
- Periodic Report generation takes lot of time.

## 2.3.PROPOSED SYSTEM :

The proposed system buyers or sellers can directly register in the site and sell/buy the product otherwise they can contact with a seller directly. Buyers can open the site and register with it and sell their products online. E-Farming is a project builds a website which will help businessman to sell their products in different cities online.

E-Farming is playing an important and vital role in agricultural production and marketing. This system allows farmers to save time on order and delivery and getting feedback Farmers (Agricultural Students) crop database must be managed. The database includes the kinds of crops, the size of cultivated area, time of harvest and yield. Farmers or the extension personnel transmit those data via the Internet to database server. Further, information provides the farmer with an important instrument for decision making and taking action.

Crops information service system should be created by the administrator. This system analyzes the crop data to create some statistical tables. Farmers can access these statistical data by browsing the homepage and make their production plan.

Production equipment's inquiry service system should be created. This system gathers information from the companies of seeds and crop production equipment to build the production equipment's inquiry service system.

**i. Haphazard development:**

It is observed that some initiatives have already been made to provide IT based services to rural community. However, duplication of efforts are witnessed as most of the services revolve around limited subjects.

**ii. User friendliness:**

The success of this strategy depends on the ease with which rural population can use the content. This will require intuitive graphics based presentation.

**iii. Local languages:**

Regional language fonts and mechanisms for synchronization of the content provides a challenge that needs to be met with careful planning.

# CHAPTER 3: SYSTEM REQUIREMENTS

## 3.1.HARDWARE REQUIREMENTS :

**Processor** : Intel core™ i5

**RAM** : Min 2GB

**Hard Disk** : Min 500GB

## 3.2.SOFTWARE REQUIREMENTS :

**Operating System** : 64 bit Windows 10

**User Interface** : HTML, CSS

**Client-side Scripting** : JavaScript

**Programming Language** : Java

**Web Application** : Netbeans IDE,Servlets

**Database** : MYSQL

**Editor** : Netbeans IDE 8.0

**Server Development** : Glassy Fish, Apache tomcat

### 3.2.1.HTML :

HTML (Hypertext Markup Language) is used to create document on the World Wide Web. It is simply a collection of certain key words called 'Tags' that are helpful in writing the document to be displayed using a browser on Internet. It is a platform independent language that can be used on any platform such as Windows, Linux, Macintosh, and so on. To display a document in web it is essential to mark-up the different elements (headings, paragraphs, tables, and so on) of the document with the HTML tags. To view a mark-up document, user has to open the document in a browser.

A browser understands and interpret the HTML tags, identifies the structure of the document (which part are which) and makes decision about presentation (how the parts look) of the document. HTML also provides tags to make the document look attractive using graphics, font size and colors. User can make a link to the other document or the different section of the same document by creating Hypertext Links also known as Hyperlinks.

## 3.2.3.CSS :

**C**ascading **S**tyle **S**heets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects.
CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.

## 3.2.3.JAVASCRIPT :

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages.
It is an interpreted programming language with object-oriented capabilities. JavaScript was first known as LiveScript, but Netscape changed its name to JavaScript, possibly because of the excitement being generated by Java. JavaScript made its first appearance in Netscape 2.0 in 1995 with the name LiveScript.

The general-purpose core of the language has been embedded in Netscape, Internet Explorer, and other web browsers. The ECMA-262 Specification defined a standard version of the core JavaScript language. JavaScript is a lightweight, interpreted programming language.

## 3.2.4.JAVA :

Java is a general-purpose computer-programming language that is concurrent, class-based, object-oriented,and specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere" (WORA),meaning that compiled Java code can run on all platforms that support Java without the need for recompilation.Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of computer architecture.Java is one of the most popular programming languages in use, particularly for client-server web applications, with a reported 9 million developers. Java was originally developed by James Gosling at Sun Microsystems (which has since been acquired by Oracle Corporation) and released in 1995 as a core component of Sun Microsystems' Java platform. The language derives much of its syntax from C and C++, but it has fewer low-level facilities than either of them.

## 3.2.4.Netbeans IDE :

NetBeans is an integrated development environment (IDE) for Java. NetBeans allows applications to be developed from a set of modular software components called modules. NetBeans runs on Microsoft Windows, macOS, Linux and Solaris. In addition to Java development, it has extensions for other languages like PHP, C, C++, HTML5, and Javascript. Applications based on NetBeans, including the NetBeans IDE, can be extended by third party developers.

## 3.2.5.DATABASE :

A database management system (DBMS) is computer software designed for the purpose of managing databases, a large set of structured data, and run operations on the data requested by numerous users.

❖ **MYSQL :**

MySQL is an open-source relational database management system (RDBMS).Its name is a combination of "My", the name of co-founder Michael Widenius's daughter,and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. For proprietary use, several paid editions are available, and offer additional functionality.

## 3.2.5.SERVLETS :

The Java web server is JavaSoft's own web Server. The Java web server is just a part of a larger framework, intended to provide you not just with a web server, but also with tools. To build customized network servers for any Internet or Intranet client/server system. Servlets are to a web server, how applets are to the browser.

## 3.2.6.GLASSYFISH Server :

GlassFish is an open-source application server project started by Sun Microsystems for the Java EE platform and now sponsored by Oracle Corporation. The supported version is called Oracle GlassFish Server.

## 3.2.7.APACHE TOMCAT Server :

The Apache Tomcat® software is an open source implementation of the Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket technologies. The Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket specifications are developed under the Java Community Process.

# CHAPTER 4 : ARCHITECTURE OF SYSTEM

## 4.1.Proposed system :

The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach.

## ❖ Advantages of Proposed system :

- Reduce complexity in managing the data related to the agriculture products, soils, fertilizers, mandi/market details.
- Current system provides different access levels for security.
- Rich user interface is provided in order to interact with application.
- Reports are generated dynamically on a periodic basis.
- Efficiency in querying details.
- User Queries and Answers are maintained.
- **GUI** : The proposed system provides better graphical user interface.
- **Search :** Searching houses, rooms, supplier, sales becomes comparatively easy.
- **Increase work Speed :** Due to automation of some part of the system work speed will increase.
- **Less Paperwork :** For the proposed system less paper work is required.
- **Reduce Error** : Due to computerized there are less possibilities of error.
- **Economical :** Due to minimal errors and work delay proposed system can be economical to the company

## 4.2.System architecture :

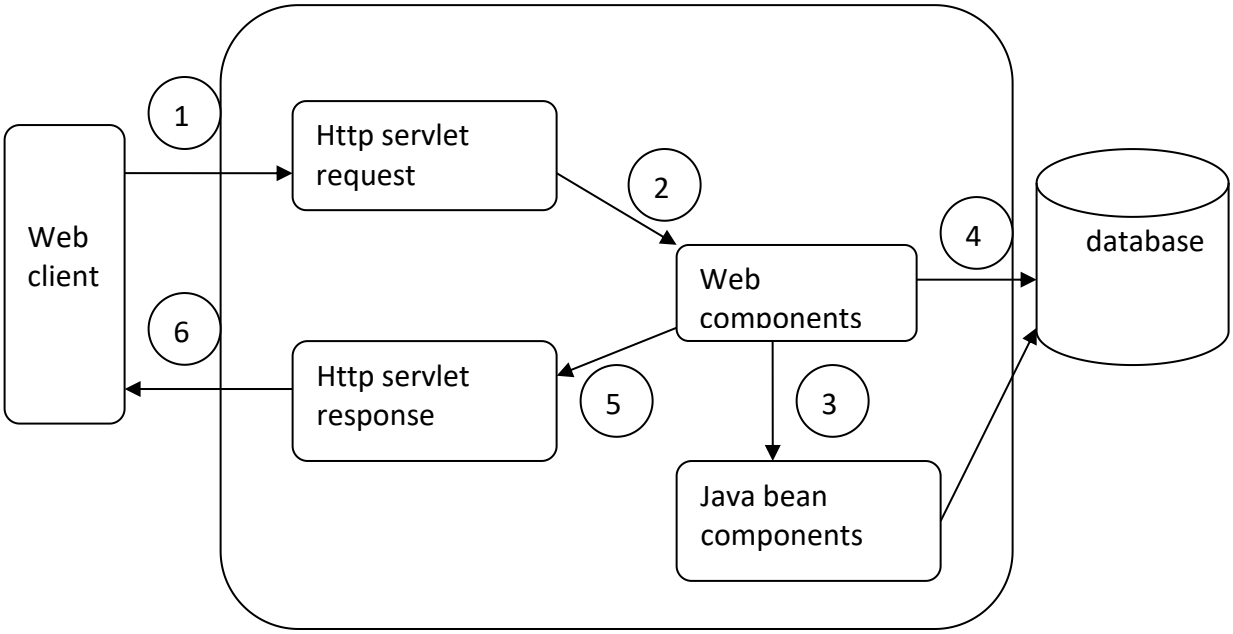



Fig: System Architecture

**1.Web Client:** The web client is a client-side component which asks for the request from server.

**2.Web Components:** They are the set of web platforms that allows to create custom,reusable,HTML tags to use in web pages and web apps.

**3.Java bean components:** JBC is a editor for java programming and for creating web page.

**4.Database**: The collection of related data for the users application.

**5.Servlet response:**It defines an object assist a servlet in sending the response to the client.

**6.Web Client:** The web client is a client-side component here it receives the requested data from server.

# CHAPTER 5:ENTITY RELATIONSHIP DIAGRAM

## 5.1.E-R Diagram :

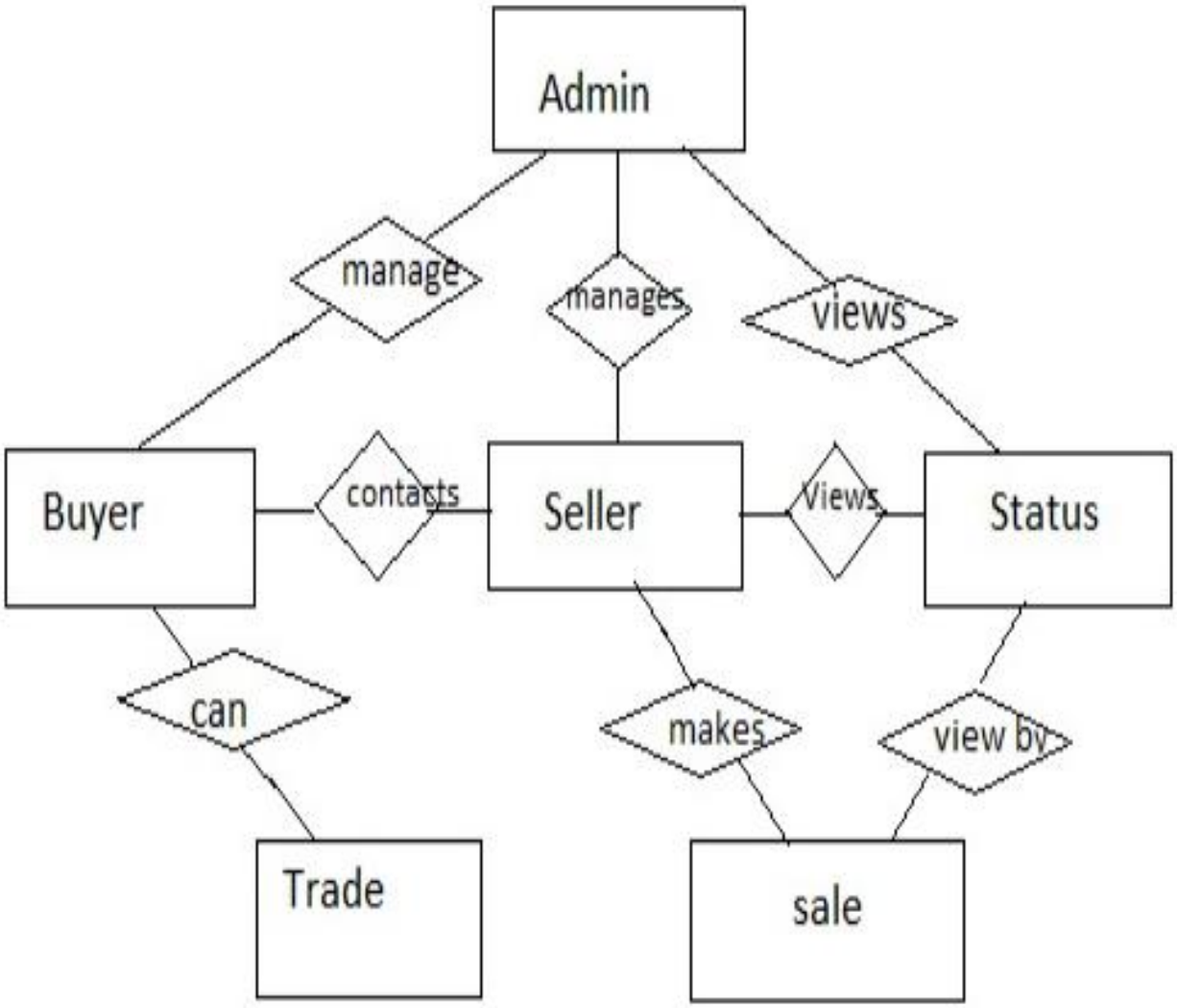



Fig.5.1:E-R Diagram

# CHAPTER 6 :IMPLEMENTATION

## 6.1.FRONT END CODES :

**6.1.Index Source code :**

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<!--
Design by TEMPLATED
http://templated.co
Released for free under the Creative Commons Attribution License

Name       : Big Business
Description: A two-column, fixed-width design with a bright color scheme.
Version    : 1.0
Released   : 20120210
-->
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="description" content="" />
<meta name="keywords" content="" />
<title>E-FARMING</title>
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>
<div id="wrapper">
        <div id="header">
                <div id="logo">
                        <h1><a href="#">E-FARMING</a></h1>
                </div>
```

```
                <div id="slogan">
        </div>
        </div>
 <div id="menu">
                <ul>
                        <li class="selected"><a href="index.html">Home</a></li>
                        <li><a href="adminlogin.jsp">Admin</a></li>
                        <li><a href="hodlog.html">buyer</a></li>
                <li><a href="sellerlog.jsp">seller</a></li>
                        <li><a href="about.html">About</a></li>
                        <li class="last"><a href="contact.html">Contact</a></li>
                </ul>
                <br class="clearfix" />
        </div>
        <div id="splash">
                <img class="pic" src="images/pic01.jpg" width="870" height="230" alt=""
/>
        </div>

                <div id="splash">
              <center><h3>Welcome to E-FARMING</h3></center>

</html>
```

**6.2.ADMIN HOME**

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<!--
Design by TEMPLATED
http://templated.co
Released for free under the Creative Commons Attribution License

Name      : Big Business
Description: A two-column, fixed-width design with a bright color scheme.
Version   : 1.0
Released  : 20120210
-->
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="description" content="" />
<meta name="keywords" content="" />
<title>E-FARMING</title>
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>
<div id="wrapper">
        <div id="header">
                <div id="logo">
                        <h1><a href="#">E-FARMING</a></h1>
                </div>
                <div id="slogan">

                </div>
        </div>
```

```
<div id="menu">
    <ul>
        <li class="selected"><a href="adminhome.jsp">Home</a></li>
        <li><a href="viewbuyers.jsp">View Buyers</a></li>
        <li><a href="ViewSellers.jsp">View Seller</a></li>
        <li><a href="Vierates.jsp">View Rates</a></li>
        <li><a href="logout.jsp">Logout</a></li>
    </ul>
    <br class="clearfix" />
</div>
<div id="splash">
    <img class="pic" src="images/pic01.jpg" width="870" height="230" alt="" />
</div>
<div id="splash">
    <center><h3>Welcome to Admin</h3></center>
        </div>
    <br class="clearfix" /
</div>
</body>
</html>
```

### 6.3.BUYER HOME

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<!--
Design by TEMPLATED
http://templated.co
Released for free under the Creative Commons Attribution License

Name       : Big Business
Description: A two-column, fixed-width design with a bright color scheme.
Version    : 1.0
Released   : 20120210
-->
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="description" content="" />
<meta name="keywords" content="" />
<title>E-FARMING</title>
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body id="top">
   <%
       Object obj2 = session.getAttribute("user");
   String str = (String) obj2;

            String message = request.getParameter("message");
            if (message != null && message.equalsIgnoreCase("success")) {
```

```
                out.println("<h3><font color='Green'> Item added Successfully Submitted
        </font></h3>");
                }
            %>
        <div id="wrapper">
            <div id="header">
                <div id="logo">
                    <h1><a href="#">E-FARMING</a></h1>
                </div>
                <div id="slogan">

                </div>
            </div>
            <div id="menu">
                <ul>
            <li class="selected"><a href="hodhome.jsp">Home</a></li>
                    <li><a href="RateFix.jsp">AddItem</a></li>

                <li><a href="Profile.jsp">Profile</a></li>
             <li><a href="viewrates.jsp">Viewrates</a></li>
            <li class="last"><a href="logout.jsp">Logout</a></li>
              <br class="clearfix" />
              </div>
          <br><br>
                <div id="splash">
                <center><h3>Welcome to SELLER</h3></center>
            </div>
                <br class="clearfix" />
            </div>
</body>
        </html>
```

## 6.4.DATABASE CONNECTION

```
package databaseconnection;
import java.sql.*;

public class databasecon
{
        static Connection co;
        public static Connection getconnection()
        {


                try
                {
                        Class.forName("com.mysql.jdbc.Driver");
                        co                                                              =
DriverManager.getConnection("jdbc:mysql://localhost:3306/eform","root","root");
                }
                catch(Exception e)
                {
                        System.out.println("Database Error"+e);
                }
                return co;
        }

}
```

# CHAPTER 7 : TEST CASES AND SCREENS

## 7.1.TEST CASES :

### 7.1.1. System Evolution

Our system should provide services to the users who are existing in this system. Users should have valid user id and password to enter the system. The administrator, agricultural students, general public, agricultural officer can use the benefits of the system who are having valid user id and password.

### 7.1.2.System to be changed:

In the existing system periodic generation of reports takes lot of time. It is time consuming and lot of complications will arise. So there is necessity to change the system and then the time taking will be very short.

### 7.1.3.System understanding:

Complete understanding of the system that is to be done i.e. brief study of the requirements and designing of the system is to be developed.

### 7.1.4.System validation:

Validation can be find in many ways, but a simple definition is that validation succeeds when software functions in a manner that can be reasonably expected by the user, i.e. fulfilling all the user specified requirements.

### 7.1.5.Modified system:

Modified system provides periodic generation of reports which is not available for the existing system such that reduce work being done manually and time consumption.

## 7.2. Testing :

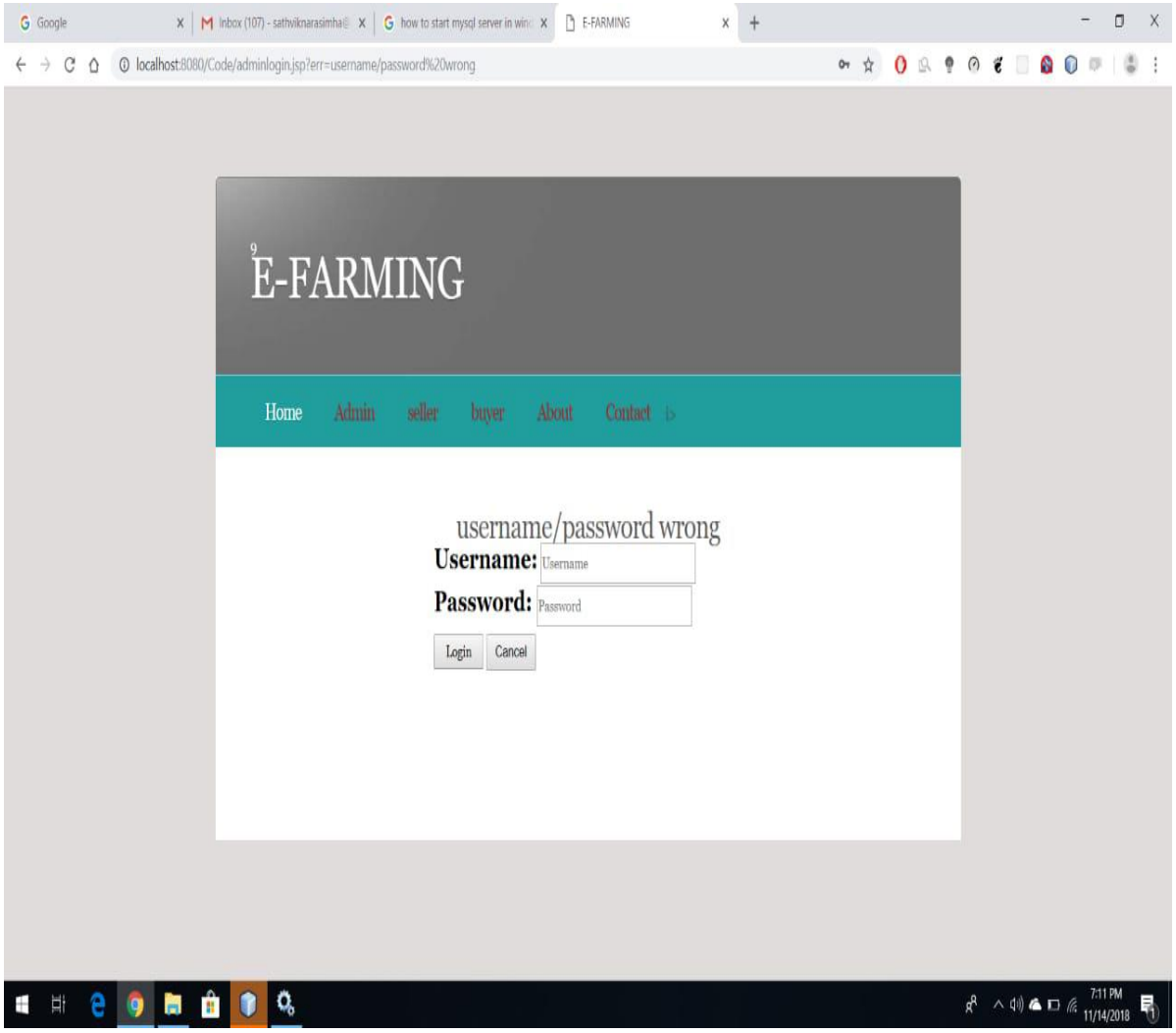
### 7.2.1.Functional test cases:

| Test case ID | Description | Test steps | Expected value | Actual value | OK/ Error | TEST |
|---|---|---|---|---|---|---|
| 1. | Verify login page | Input username and password | Login page | Invalid data | error | Admin/ User |
| 2 | Verify login page | Input username and password | Login page | Login page | ok | Admin/ User |
| 3. | Verify registration page | Registration | User profile | Registration failed | error | User |
| 4. | Verify registration page | Registration | User profile | User profile | ok | User |
| 5. | Enter email id and phone number | Registration | User profile | Invalid / Doesnot match | error | User |
| 6. | Enter email id and phone number | Registration | User profile | Valid / Match | ok | User |
| 7. | User name | Login | Login page | Invalid | error | Buyer/ Seller |
| 8. | User name | Login | Login page | Valid | ok | Buyer/ Seller |

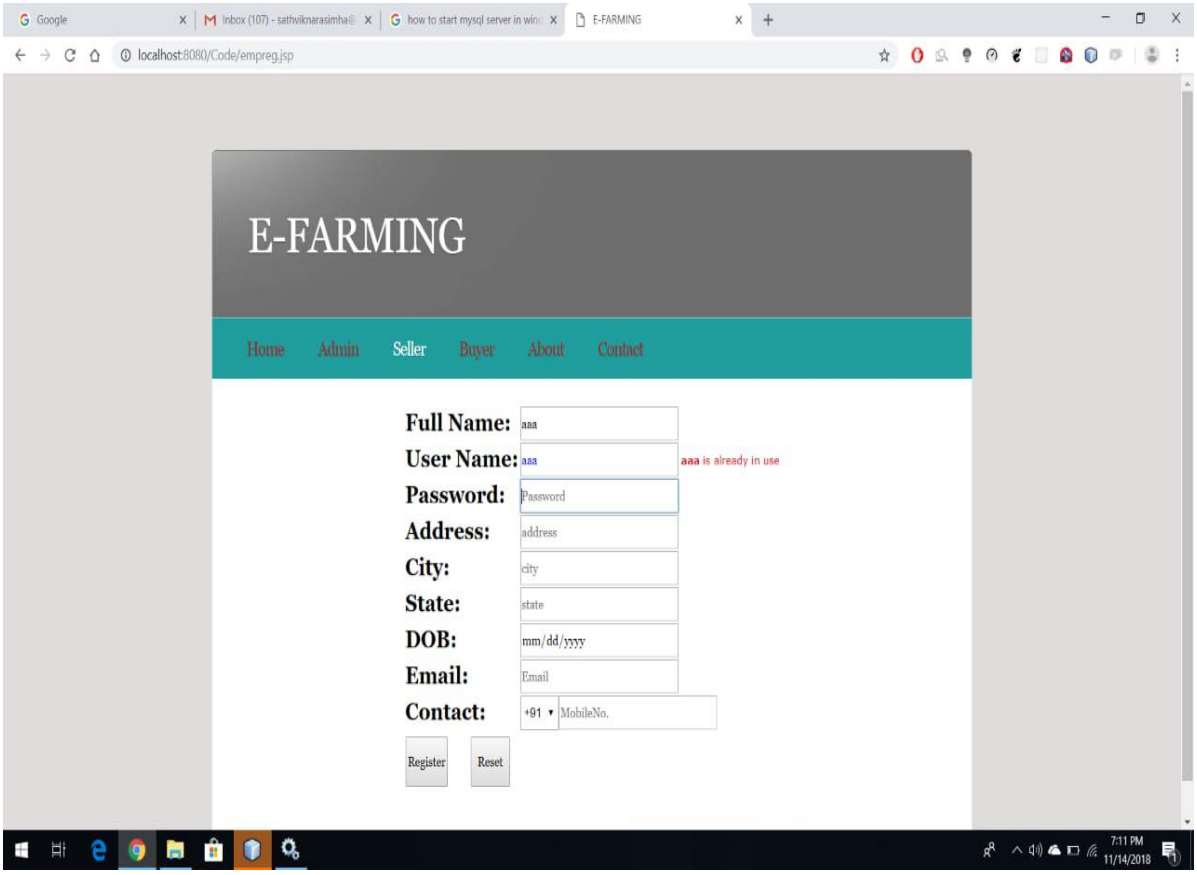
| | | | | | | |
|---|---|---|---|---|---|---|
| 9. | Password | Login | Login page | Invalid | error | Buyer/ Seller |
| 10. | Password | Login | Login page | Valid | ok | Buyer/ Seller |
| 11. | Commodities Or Product insertion | Seller page | Availability or free space | Full or unavailable | error | Seller |
| 12. | Commodities Or Product insertion | Seller page | Availability or free space | Empty or Space for entries | ok | Seller |
| 13. | Buyer purchacing | Buyer page | Product profile | Null or empty | error | Buyer |
| 14. | Buyer purchacing | Buyer page | Product profile | available | ok | Buyer |
| 15. | Contact | Contact page | Contact profile | Exist | ok | User |

## 7.3.TEST CASE SNAP SHOTS :

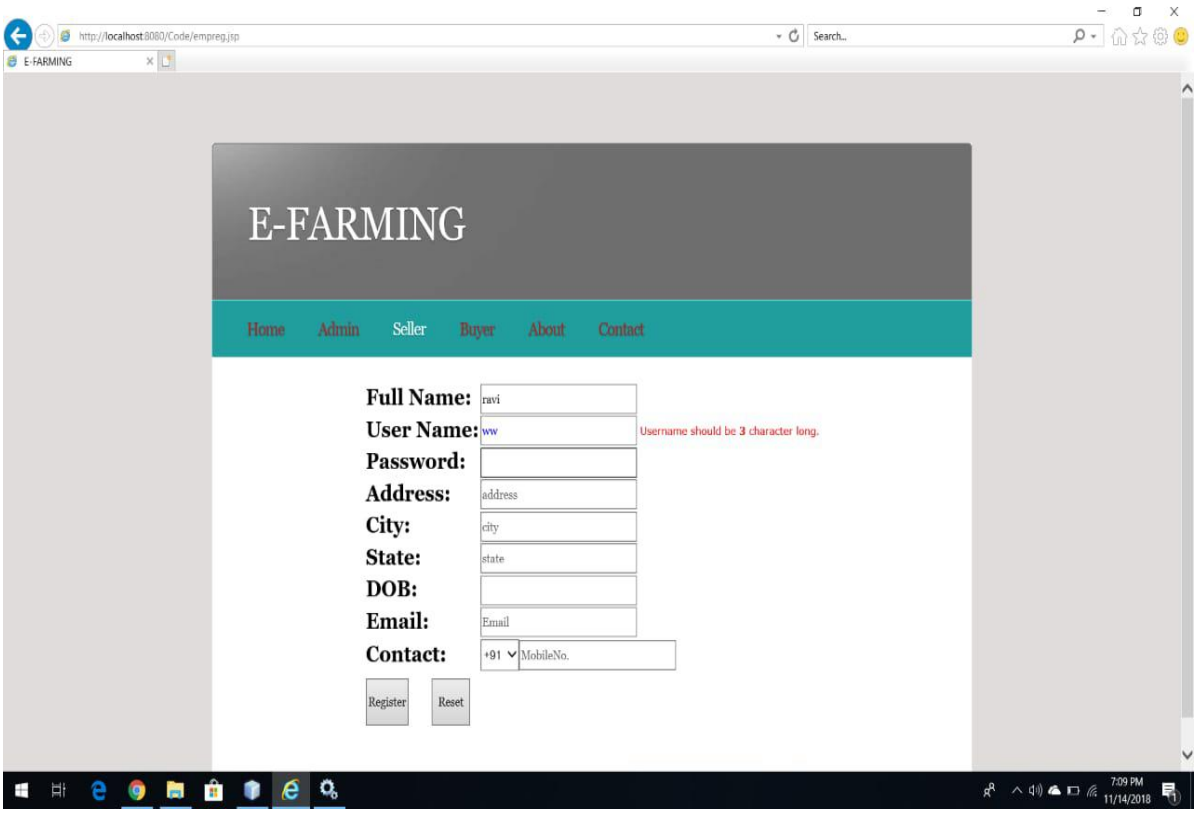
- Invalid User Name or password entered



- User name  Already Exist promt says try unique name



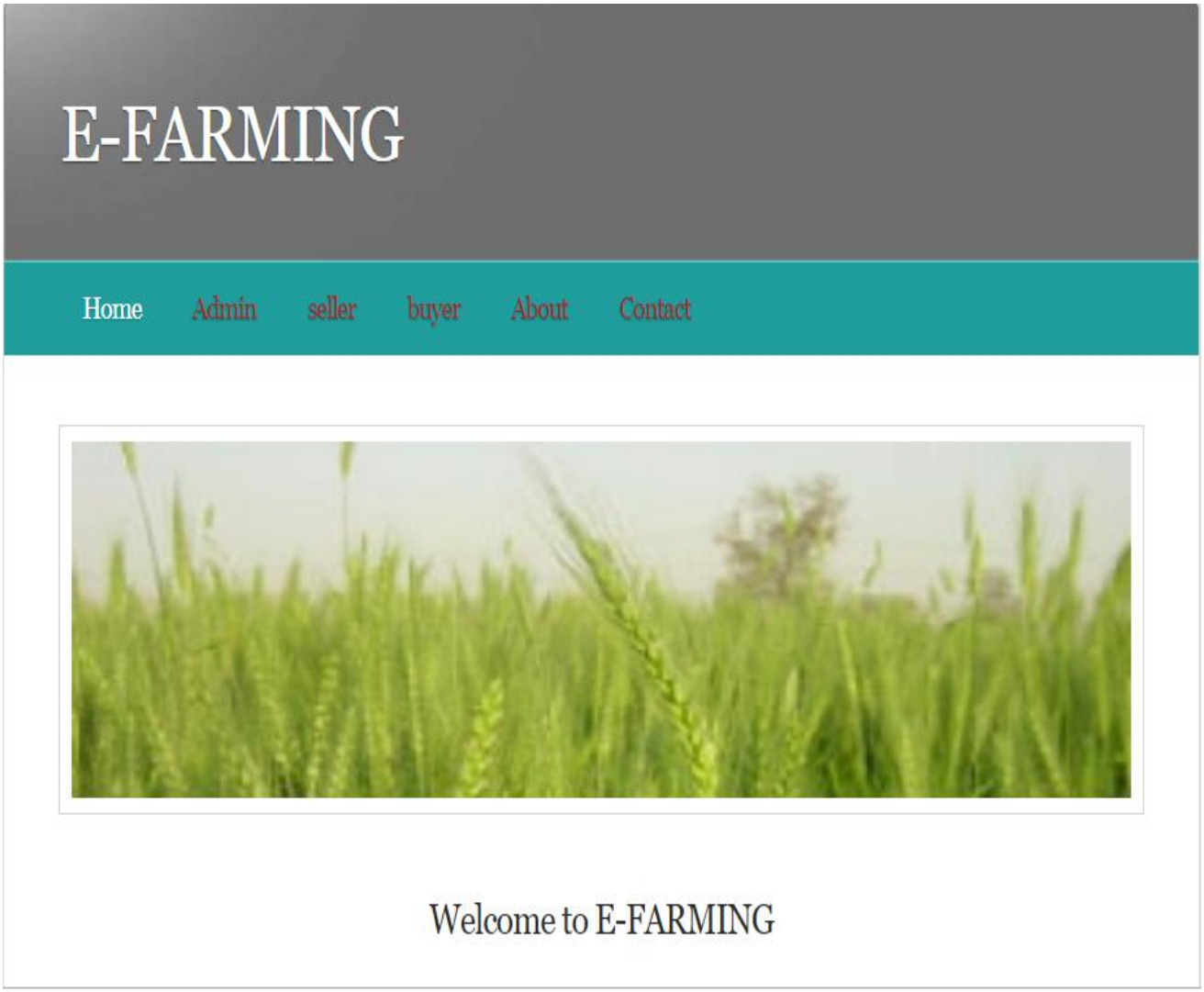
- User name Should contains Minimum three characters while registration



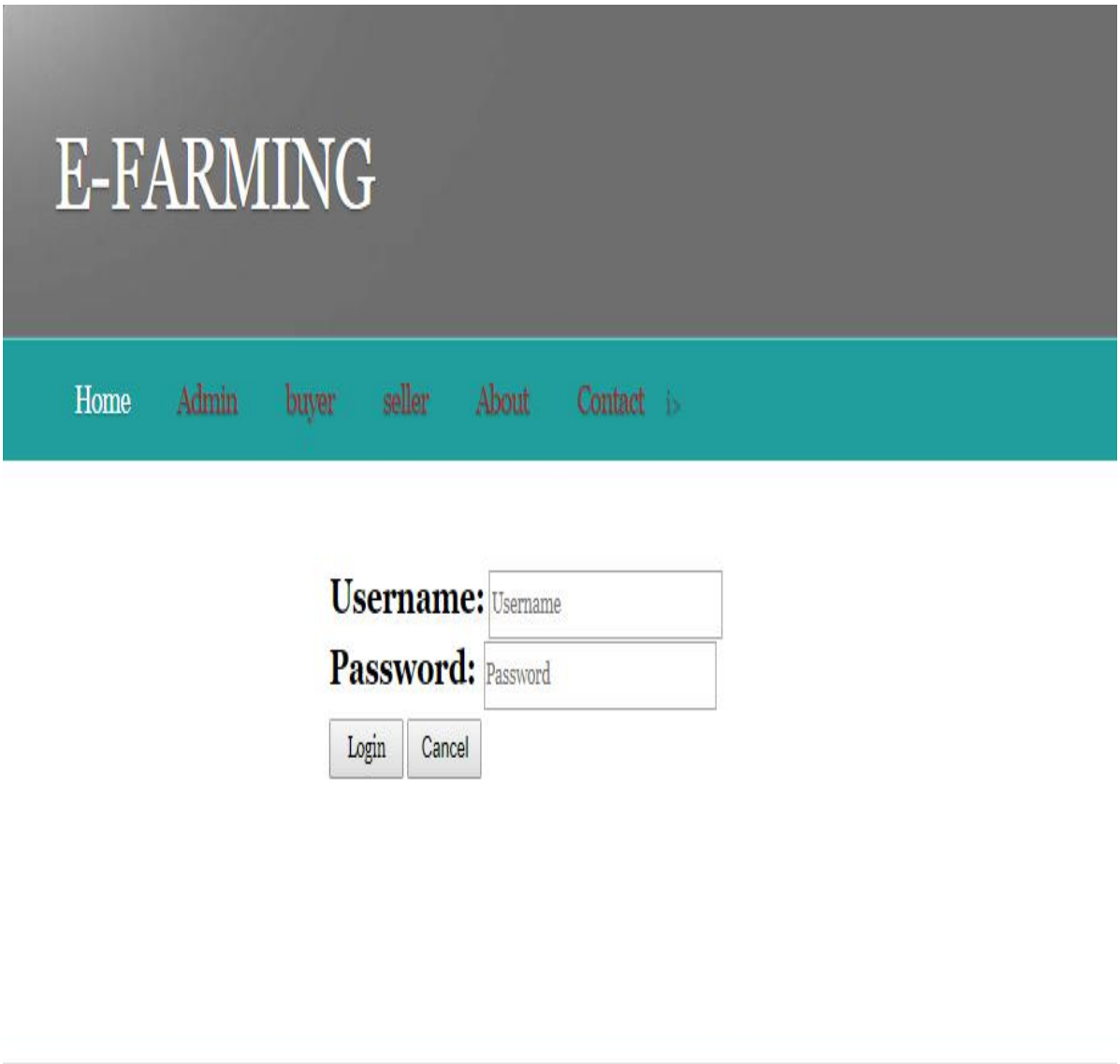
# 8.SNAP SHOTS (Screens) :

## 8.1.SCREENS :

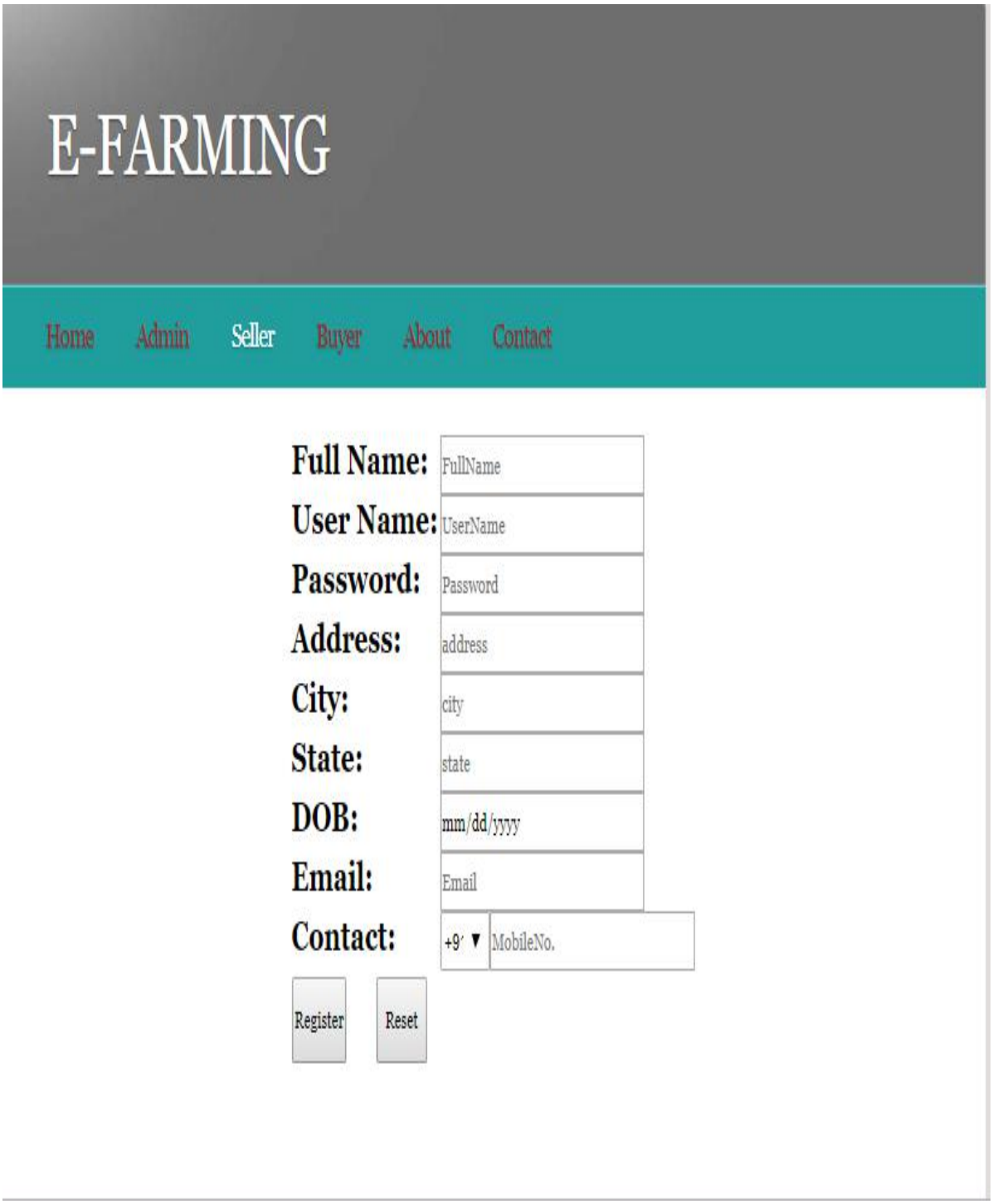
- **HOME PAGE**



- **LOGIN PAGE FOR ADMIN**

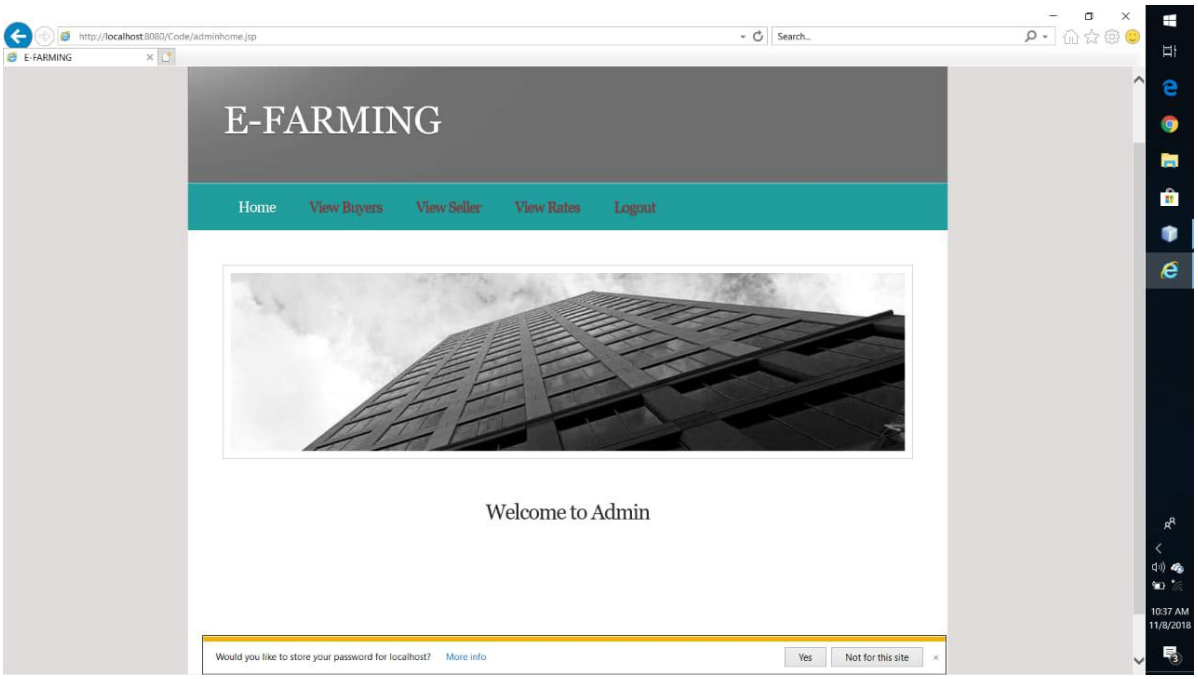


- **REGISTRATION PAGE FOR USERS**

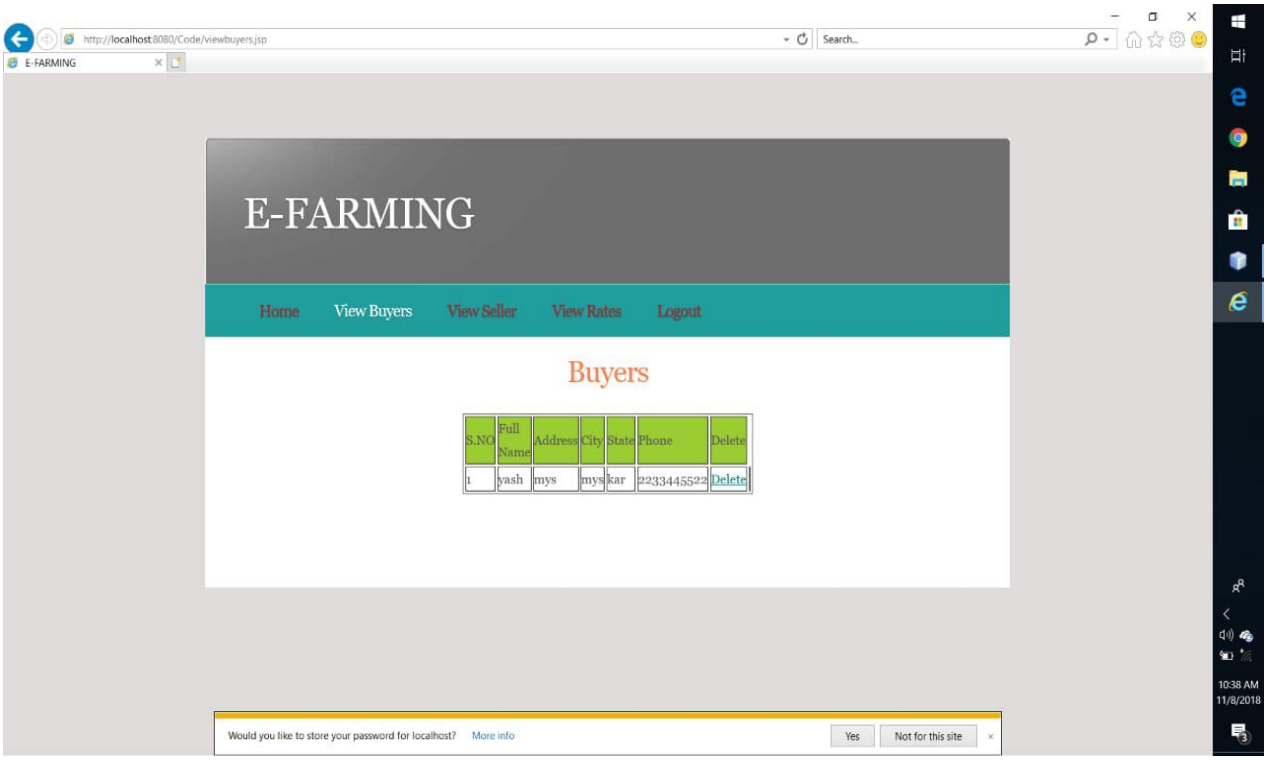


- **ADMIN PROFILE**

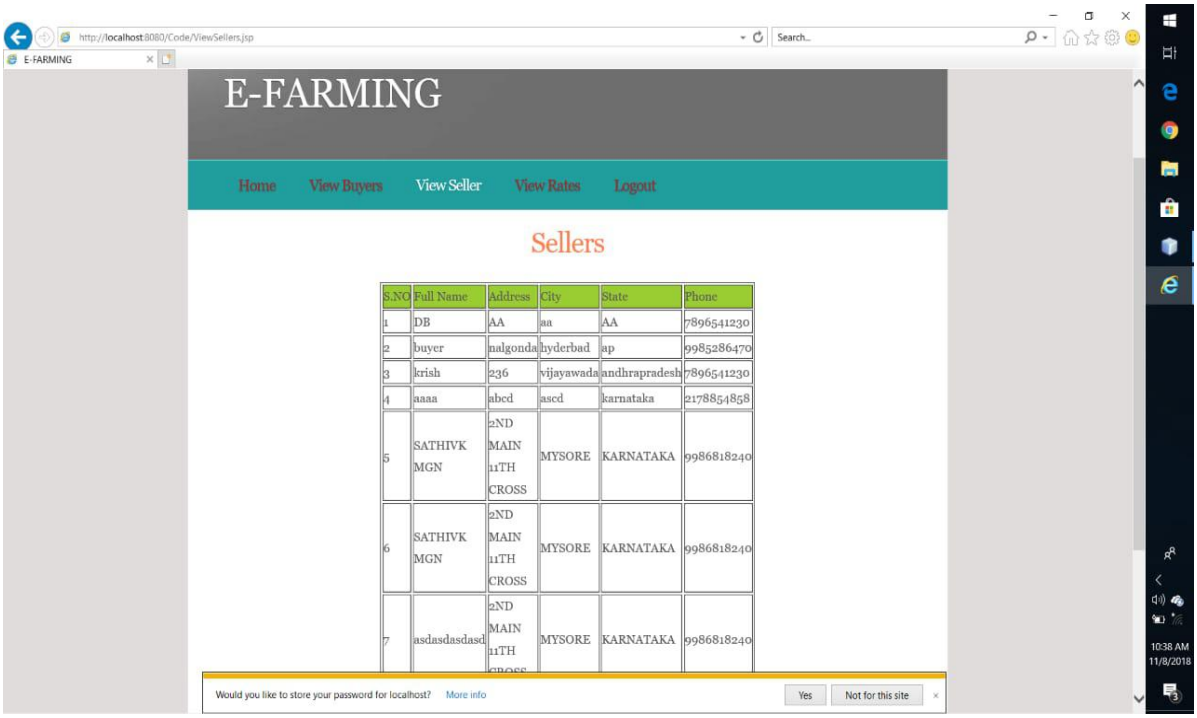
❖ **HOME PAGE**



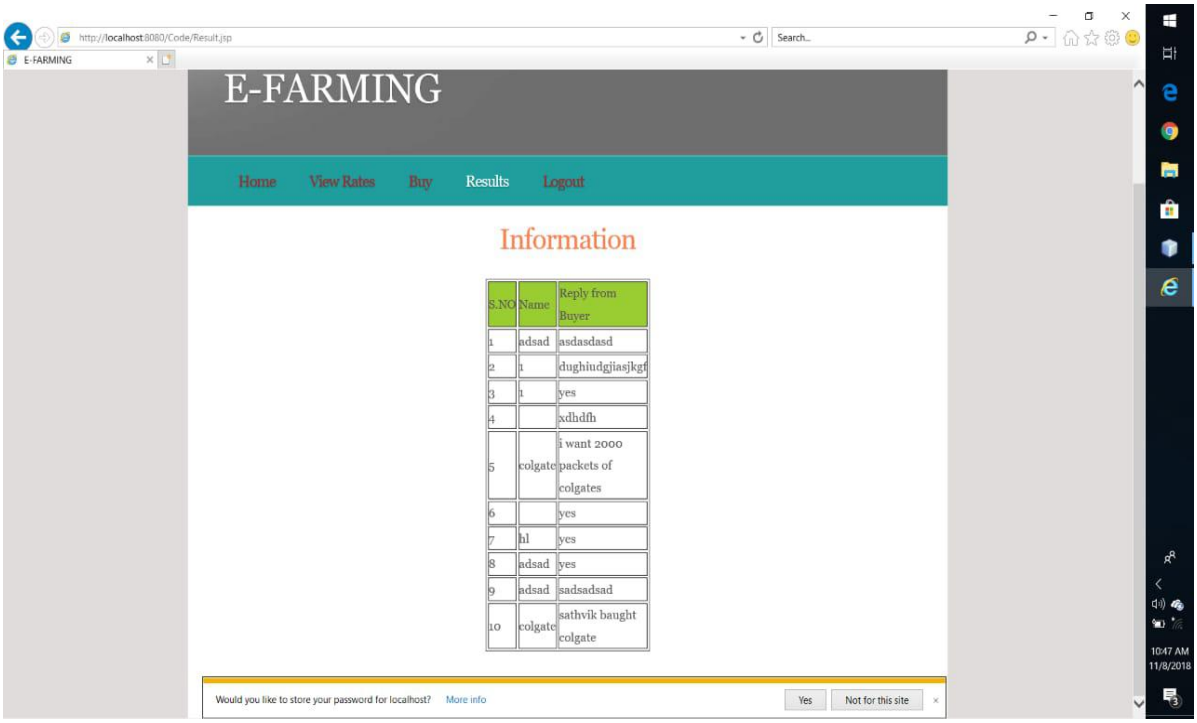

❖ **ADMIN PROFILE FOR BUYERS VIEW**



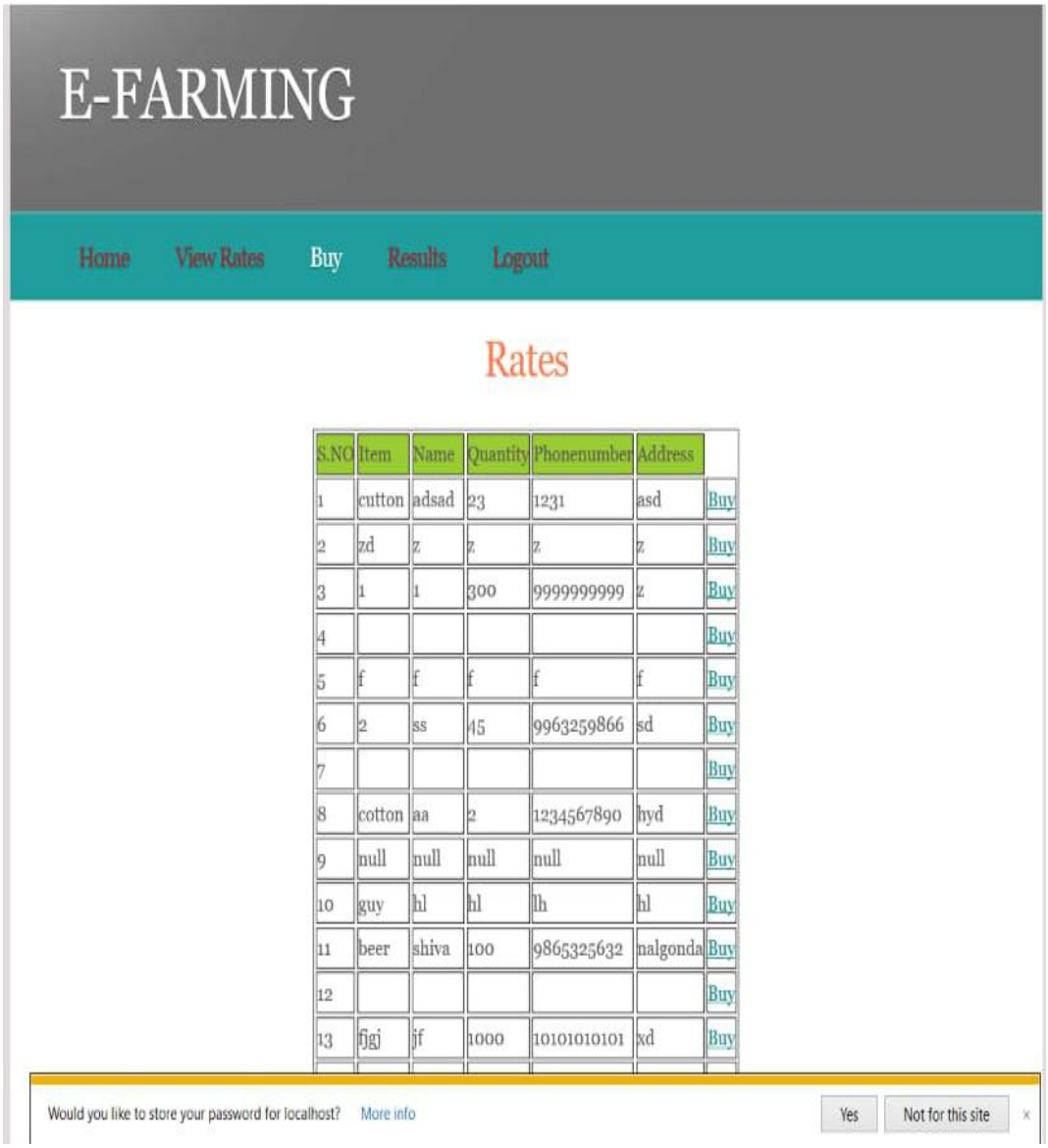
## ❖ ADMIN PROFILE FOR SELLERS VIEW



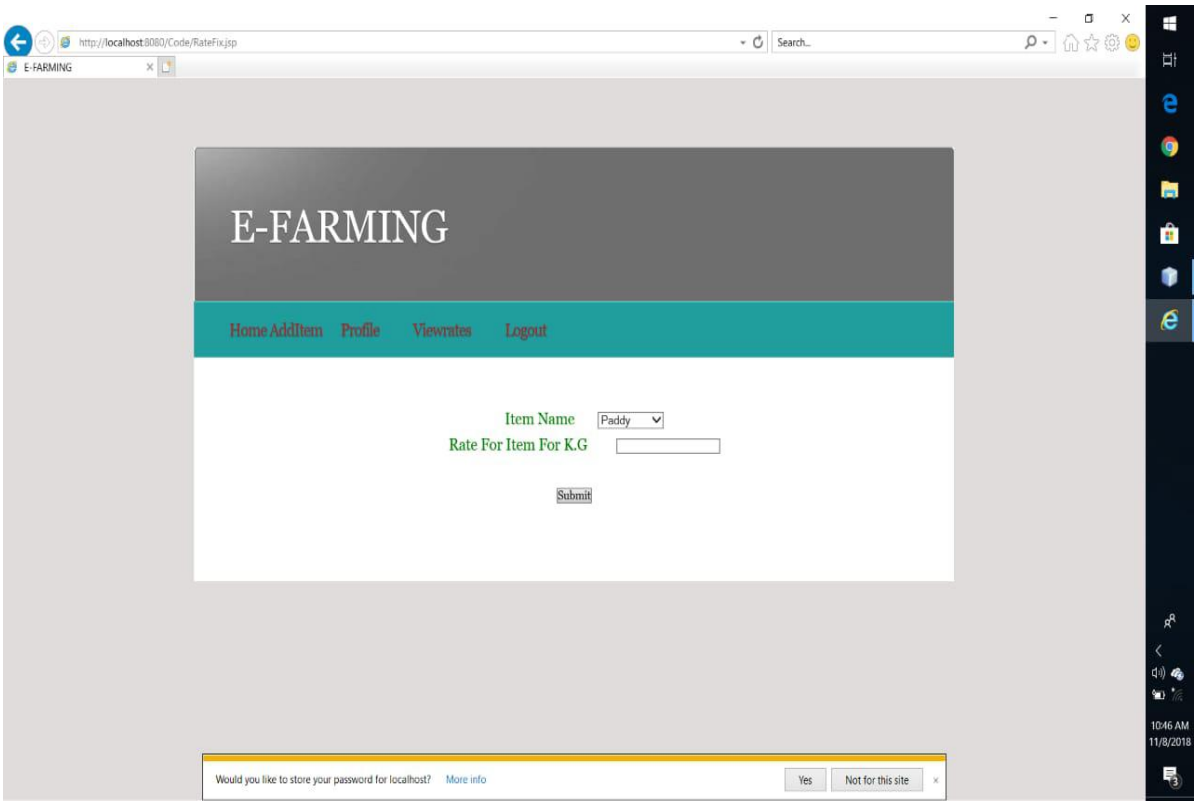

## ❖ ADMIN PROFILE FOR RESULTS



- **BUYERS PROFILE**



- **SELLER PROFILE**




- **SELLER VIEW PAGE**

## 8.2.Data Base Tables

- **Show tables**

```
mysql> use eform;
Database changed
mysql> show tables;
+-----------------+
| Tables_in_eform |
+-----------------+
| admin           |
| buyer           |
| sale            |
| seller          |
| statu           |
| trade           |
+-----------------+
6 rows in set (0.14 sec)
```

- **Admin**

```
mysql> desc admin;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| user  | varchar(10) | YES  |     | NULL    |       |
| pwd   | varchar(10) | YES  |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.19 sec)
```

- **Status**

```
mysql> desc statu;
+--------+--------------+------+-----+---------+-------+
| Field  | Type         | Null | Key | Default | Extra |
+--------+--------------+------+-----+---------+-------+
| name   | varchar(20)  | YES  |     | NULL    |       |
| status | varchar(100) | YES  |     | NULL    |       |
+--------+--------------+------+-----+---------+-------+
2 rows in set (0.01 sec)
```

- **Seller**

```
mysql> desc seller;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| ename    | varchar(20) | YES  |     | NULL    |       |
| uname    | varchar(20) | YES  |     | NULL    |       |
| password | varchar(20) | YES  |     | NULL    |       |
| address  | varchar(20) | YES  |     | NULL    |       |
| city     | varchar(20) | YES  |     | NULL    |       |
| state    | varchar(20) | YES  |     | NULL    |       |
| email    | varchar(20) | YES  |     | NULL    |       |
| phoneno  | varchar(20) | YES  |     | NULL    |       |
| dat      | varchar(20) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
9 rows in set (0.00 sec)
```

- **Sale**

```
mysql> desc sale;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| company     | varchar(20) | YES  |     | NULL    |       |
| item        | varchar(20) | YES  |     | NULL    |       |
| name        | varchar(20) | YES  |     | NULL    |       |
| quantity    | varchar(20) | YES  |     | NULL    |       |
| phonenumber | varchar(20) | YES  |     | NULL    |       |
| address     | varchar(20) | YES  |     | NULL    |       |
| status      | varchar(20) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
7 rows in set (0.01 sec)
```

- **Buyer**

```
mysql> desc buyer;
+----------+-------------+------+-----+---------+----------------+
| Field    | Type        | Null | Key | Default | Extra          |
+----------+-------------+------+-----+---------+----------------+
| ename    | varchar(20) | YES  |     | NULL    |                |
| uname    | varchar(20) | YES  |     | NULL    |                |
| password | varchar(20) | YES  |     | NULL    |                |
| address  | varchar(20) | YES  |     | NULL    |                |
| city     | varchar(20) | YES  |     | NULL    |                |
| state    | varchar(20) | YES  |     | NULL    |                |
| email    | varchar(20) | YES  |     | NULL    |                |
| phoneno  | varchar(20) | YES  |     | NULL    |                |
| dat      | varchar(20) | YES  |     | NULL    |                |
| idd      | int(11)     | NO   | PRI | NULL    | auto_increment |
| trade    | varchar(30) | YES  |     | NULL    |                |
+----------+-------------+------+-----+---------+----------------+
11 rows in set (0.00 sec)
```

# CHAPTER 9 : CONCLUSION

## 9.1.Conclusion :

An interface e-farming to accessing the agricultural information from the global repository of internet and the local repository has been proposed in this paper. The proposed interface is able to overcome the digital and language confinement of the Indian farmers by employing the multiple modes of interaction techniques. The empirical evaluation through large diversified users reveals that the e-farming interface adequately caters the need of the user. It also be concluded that the proposed interface is very much usable, applicable in the desired context. At the current stage the e-farming interface is limited to access the agricultural information in the context of Indian languages. However, it can be extended toward the agricultural context of any country in the world, which proves that the approach is generic.

The proposed system buyers or sellers can directly register in the site and sell/buy the product otherwise they can contact with a seller directly. Buyers can open the site and register with it and sell their products online. E-Farming is a project builds a website which will help businessman to sell their products in different cities online.

## 9.2.Limitations :

- It is open discussion forum so that everyone uploads unwanted and wrong information so that it misleads the students and farmers.
- Quite inefficiency in querying details.

## 9.3.Enhancements :

It is not possible to develop a system that makes all the requirements of the user. User requirements keep changing as the system is being used. Some of the future enhancements that can be done to this system are:

- As the technology emerges, it is possible to upgrade the system and can be adaptable to desired environment.
- Because it is based on object-oriented design, any further changes can be easily adaptable.
- Based on the future security issues, security can be improved using emerging technologies.
- Case Registration module can be added

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