

A
PROJECT REPORT
ON
FARMER MERCHANT INTERGRATION

BACHELOR OF TECHNOLOGY

IN

“Computer Science & Engineering”

SUBMITTED BY:

SHIVAM KUMAR MAHTO - (2003630100146)

Under the Guidance

Of

Mr. Shivam Dixit



AMBALIKA INSTITUTE OF MANAGEMENT & TECHNOLOGY
LUCKNOW

Affiliated to

DR. A.P.J ABDUL KALAM TECHNICAL UNIVERCITY LUCKNOW



DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING
AMBALIKA INSTITUE OF MANAGEMENT &
TECHNOLOGY, LUCKNOW

CERTIFICATE

Certified That the Project entitled "**FARMER MERCHANT INTERGRATION**" by **SHIVAM KUMAR MAHTO**, and in the partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in **Computer Science & Engineering** of **Dr. A. P. J. KALAM TECHNICAL UNIVERSITY, LUCKNOW, INDIA** is a record of her/his own work carried under my supervision and guidance. The project report embodies result of original work and activities carried out by his/her and the contents of the project report do not form the basis for the award of my other degree to the candidate or to anybody else.

Mr. Shivam Dixit
(Project Guide)

Dr. Alock Mishra
HOD-CSE

CSE DEPT, AIMT, Lucknow



**DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING
AMBALIKA INSTITUE OF MANAGEMENT &
TECHNOLOGY, LUCKNOW**

DECLARATION

We hereby declare that the project " **FARMER MERCHANT INTERGRATION**" submitted by us in the partial fulfillment of the requirements for the award of the degree of **Bachelor of Technology in Computer Science & Engineering** of **DR. A. P. J. KALAM TECHNICAL UNIVERSITY, LUCKNOW**, is record of our own work carried under the supervision and guidance of Shivam Dixit (Project Guide).

To the best of our knowledge the project has not been submitted to **DR. A. P. J. KALAM TECHNICAL UNIVERSITY, LUCKNOW** or any other University or Institute for the award of any degree.

Shivam Kumar Mahto (2003630100146)

CSE DEPT, AIMT, Lucknow



DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING
AMBALIKA INSTITUE OF MANAGEMENT &
TECHNOLOGY, LUCKNOW
ACKNOWLEDGEMENT

This is our proud privilege in expressing deep sense of obligation and gratitude to "**Mr. Shivam Dixit (Project Guide)**" who has assigned us our project on such a rising and interesting topic, which is the "**FARMER MERCHANT INTERGRATION**". We are also thankful to him for his support and valuable guidance rejuvenating encouragement, positive criticism and constant supervising all through our project.

We see greatly indebted to be associated with him for his everlasting impression, scientific temperament and humanitarian sensibility. He has always seen a source of inspiration to us throughout the work.

We are sincerely and intense thanks to our project guide and **HOD Dr. Alok Mishra** and all the computer science and engineering department for arranging these kinds of projects for students. We also express our gratitude to our college for providing us the infrastructure to carry out the project and to all staff members who were directly or indirectly instrumented in enabling to stay committed for project.

Shivam Kumar Mahto (2003630100146)

PREFACE

In today's globalized economy, the integration of farmers and merchants represents a pivotal element in enhancing agricultural productivity, ensuring food security, and fostering sustainable economic development. This synergy between the agricultural and commercial sectors is not merely a strategy for survival but a pathway to prosperity, offering myriad benefits to both farmers and merchants.

For farmers, integration with merchants provides critical access to markets, better pricing mechanisms, and essential services such as financing, technology, and training. This relationship empowers farmers to focus on their core activities—cultivation and production—while relying on merchants to handle the complexities of market dynamics. By bridging the gap between the producer and the consumer, this integration ensures that farmers can secure fair prices for their produce, reduce post-harvest losses, and enhance their overall livelihoods.

ABSTACT

Farmer-merchant integration is a critical mechanism in the modern agricultural economy, aimed at enhancing the efficiency, sustainability, and profitability of the agri-food supply chain. This paper explores the multifaceted aspects of this integration, examining its potential to bridge the gap between agricultural producers and market intermediaries. By facilitating direct linkages and fostering collaborative relationships, farmer-merchant integration offers numerous benefits, including improved market access for farmers, better price realization, reduced post-harvest losses, and enhanced supply chain transparency.

The study investigates various models of integration, ranging from contract farming and cooperatives to digital platforms and agribusiness partnerships. It highlights the role of technology in streamlining operations, providing real-time market information, and enabling traceability. Additionally, the paper addresses the challenges faced in implementing effective integration, such as infrastructural constraints, regulatory hurdles, and the need for capacity building among stakeholders.

Through case studies from different regions and agricultural sectors, the research underscores best practices and successful strategies that have led to positive outcomes. The findings suggest that well-structured farmer-merchant integration can significantly contribute to rural development, economic stability, and food security.

The paper concludes with policy recommendations and practical insights aimed at fostering robust farmer-merchant linkages, emphasizing the importance of supportive policy frameworks, investment in infrastructure, and the adoption of innovative technologies. By adopting a holistic approach, this study provides a comprehensive understanding of how farmer-merchant integration can be optimized to achieve sustainable agricultural development and equitable economic growth.

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INTRODUCTION

The Farmer-Merchant integration is a web-based application for the Cold Storage. The main objective of this system is to provide quality products to the merchants by the farmers from the Cold Storage and the products will be supplied to the merchant's time to time.

This project deals with developing Cold Storage Web based application. It provides the interaction between the farmer and cold storage and also between cold storage and merchant. The system is implemented using a 3-tier approach, with a backend database, a middle tier of Java with JSP, and a web browser as the front-end client.

In order to develop a Cold Storage Web based application, a number of Technologies must be studied and understood. These include multi-tiered architecture, server and client-side scripting techniques, implementation technologies such as Java with JSP, programming language (Java & JavaScript etc.) and relational databases (MySQL).

This project provides common platform for the farmers and merchants on business level. This Farmer and Merchant integration or FM Integration will act as a mediator between two parties i.e. Farmers and Merchants. FM Integration is being used for procurement of many food products in an effective and efficient way.

There are 3 most important entities used, they are:

- Farmer
- Merchant
- Owner

FM Integration has some rules which both parties have to follow. FM Integration will allot katte (packets) to the farmers according to their requirements. Farmers will be allotted the katte and they will store products like potato, onions, tomato etc. Farmers will also apply for loans through the FM Integration system. Accounting process is used systematically. Stocks of particular farmers will be maintained. Merchant's information will also be maintained. Transactions information will be maintained. Merchant will borrow the products from FM Integration. Quality products will be supplied.

FEATURES

This project is providing a very good platform for farmers and merchants. Farmers will use the system by storing their materials in cold storage through allotted katta. Merchants will borrow the products from cold storage. There are various attractive features of FM Integration like: -

- Provides good accessibility of database.
- Maintain the consistency of the data.
- Reduce the overhead from the database handler which presently depends on the manual work.
- Provide the good portability feature that means anyone can access this system from anywhere at any time on the basis of their need.

PROBLEMS IN EXISTING SYSTEM

In Manual working system, so many problems occurred like:

- Human Error during entry process.
- Wrong Transaction can be done so fake transaction may be possible.
- They don't have centralized database to maintain information.
- Complexity in working process.

PROPOSED SYSTEM

- Fully Automated System is used.
- Centralized database with no redundancy i.e. proper normalization.
- Common platform for farmers and merchants.
- Both parties will be benefited.

OBJECTIVE

ABOUT CLIENT

The client of this project is **BABA Cold Storage, Fatehpur, Barabanki**. Availability of proper cold storages are important for preserving perishable commodities like milk, meat, eggs, vegetables, fruits, ornamental flowers and other floricultural goods.

OBJECTIVES

The client's requirement in the portal was to broadly categorize users in the web application. The three categories are:

- Farmer
- Merchant
- Owner

Farmers have to preserve their products which are in stock and afterwards sell those products in a profitable manner. For that purpose, they need such type of system which should provide facility for storing their products in an effective and efficient manner. The farmers preserve their products in different cold storages for the same purpose. This FM Management portal is the automation of such system which provides facility to the farmers to store their products and sell their products to the merchants. Merchants will also buy those products in stock from cold storage in an effective price. Therefore, in this manner all the users will be satisfied.

ABOUT THE PROJECT

This Project is a web-based application for automation of cold storage. The analysis steps of project are given below: -

- **Feasibility Study**

Feasibility study is the measure of how beneficial or practical the development of an information system will be to an organization. The Feasibility analysis is a cross life cycle activity and should be continuously performed throughout the system life cycle.

- **Operational Feasibility: -**

By providing the web-based application, all the users will get a very good facility of accessing the service to get their products. All the user information, accounting and transaction process is done properly.

Users will feel comfortable by reduction of their work. The system will make handling of large databases easy. Losing of records will be avoided. Considering all these factors, we can conclude that all the users and end users will be satisfied by the system.

- **Technical Feasibility: -**

For the design and development of the system, several software products have been accommodated.

- Database design – MySql
- Interface design – HTML, CSS, Java Script and Bootstrap.
- Coding – Java with JSP

The technology (Java with JSP) has enough efficiency for the development of the system. Therefore, the project is technically feasible.

- **Schedule Feasibility: -**

The duration of time required for the project has been planned appropriately and it is the same as the duration of time expected by the client. Therefore, the website can be delivered to the client within the expected time duration, satisfying the client. Hence the project is feasible in scheduling.

- **Economic Feasibility: -**

According to the resources available and the project scheduling process it is estimated that the expenses allocated for the web application to be developed, by the client is sufficient enough. Hence the economical factor has been considered feasible.

- **Project Planning & Scheduling: -**

Planning is very important part of any software development. In the planning phase we decide which features are to be included in the system to make a good system, how much time do we need to complete the project, what will be the cost of the system etc...

A Software Life Cycle or software process is a series of identifiable stages that a software product undergoes during its development. A software product development effort usually starts with a project identification and selection stage and then requirements analysis; design, coding, testing, implementation and maintenance are undertaken.

A life cycle model identifies all the activities required to develop and maintain a software product and establishes a precedence ordering among the different activities.

The various phases of Software Development Life Cycle-

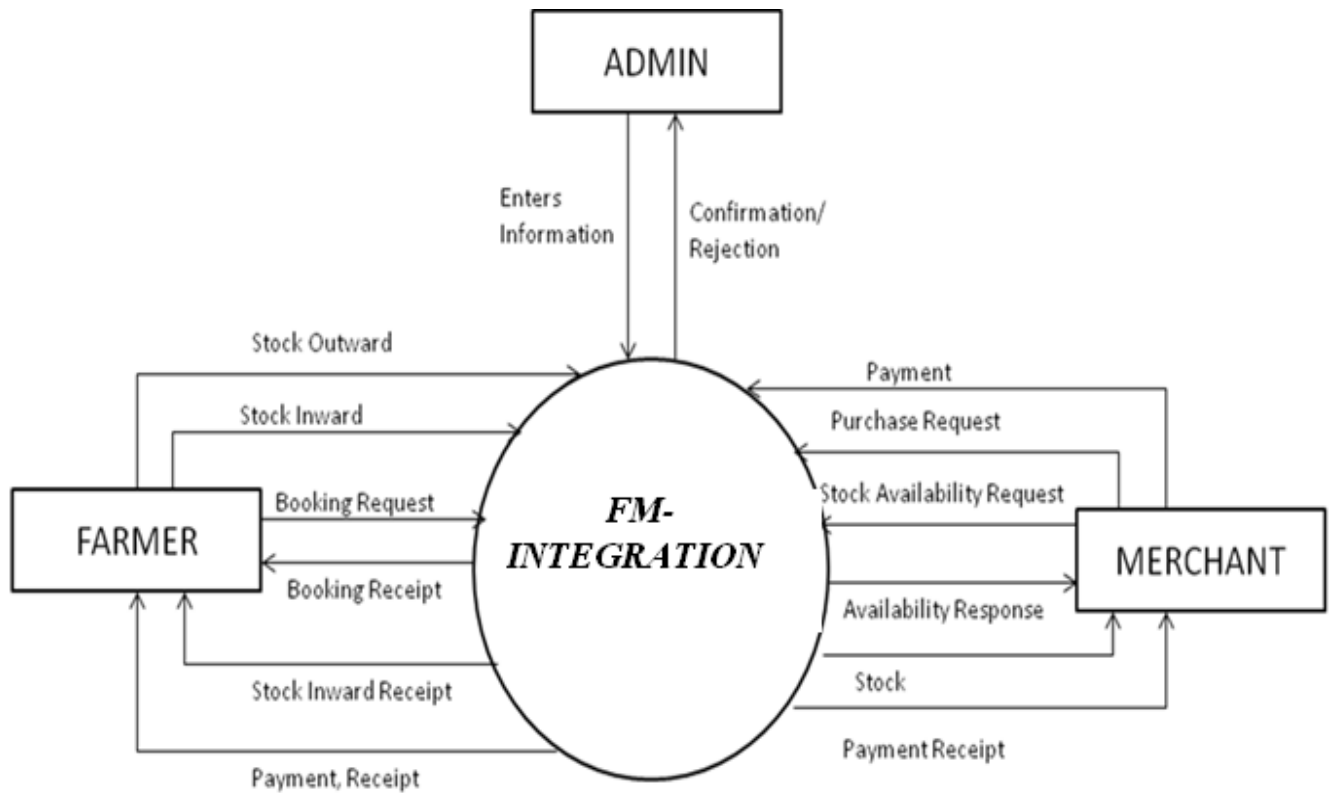
- Requirement Analysis
- System Design
- Coding
- Testing
- Implementation

SOFTWARE REQUIREMENT FOR DEVELOPMENT

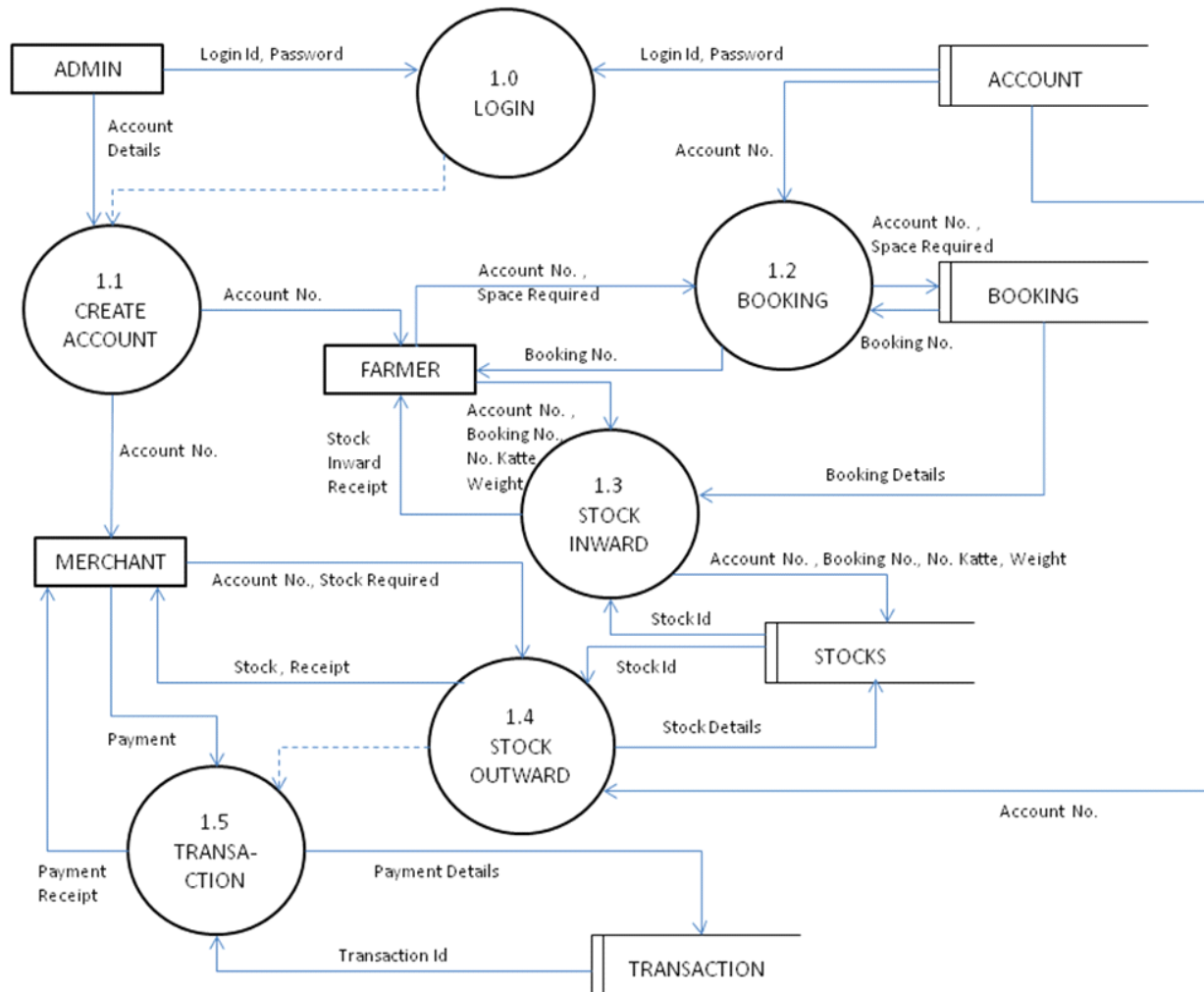
User Interface Designing	HTML5, CSS3, Java Script, Bootstrap
Programming Language	Java with JSP
Database	MySql
IDE	Netbeans 8.0

HIGH LEVEL DESIGNING

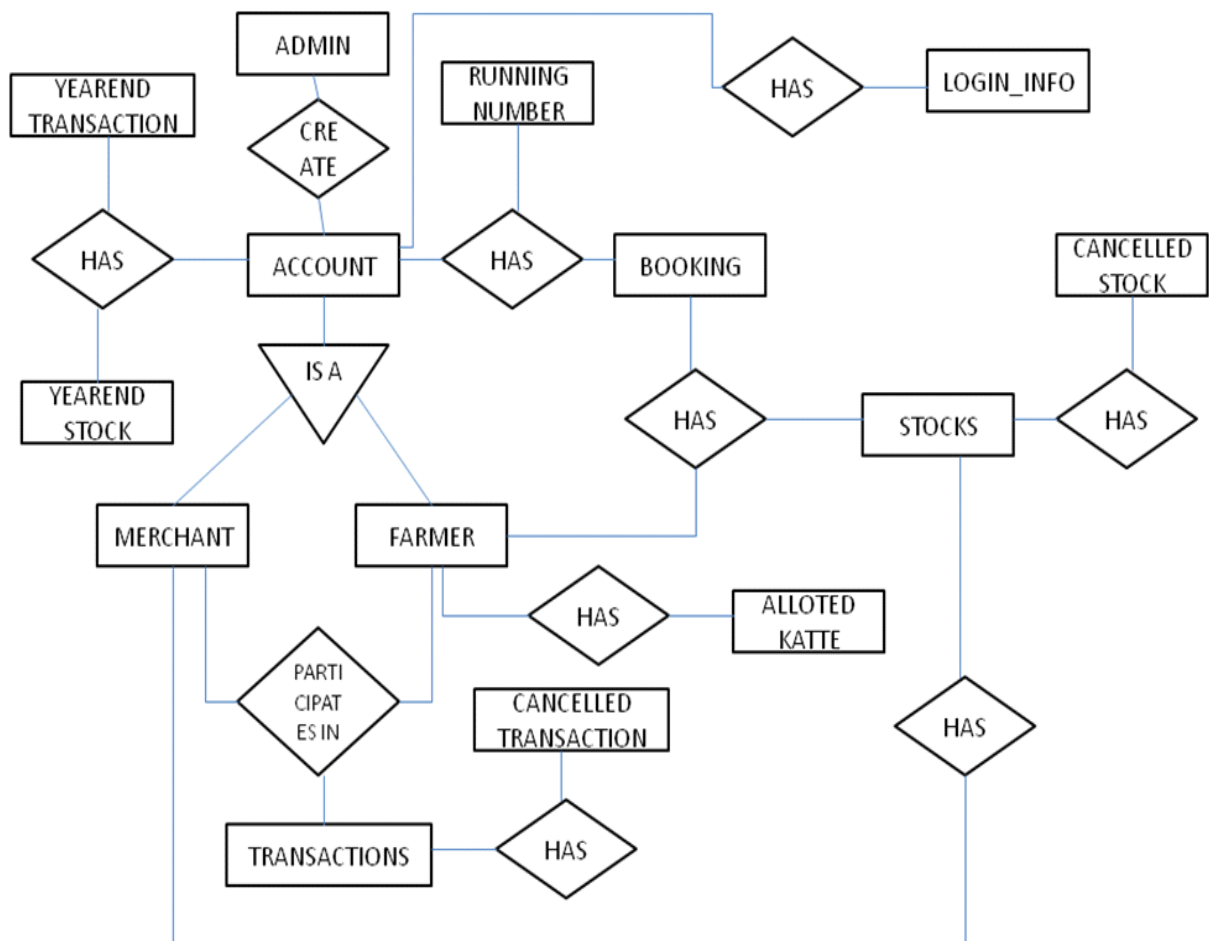
DATA FLOW DIAGRAM (0 – Level DFD)



DATA FLOW DIAGRAM (1 – Level DFD)



ER – DIAGRAM



LOW LEVEL DESIGNING

DATABASE DESIGNING: -

Database Name: - fmidb

Table Name: FarmerInfo

Column Name	Data Type
Regid	varchar(16) primary key
Name	varchar(50)
Fname	varchar(50)
Mname	varchar(50)
Gender	Varchar(6)
Village	varchar(100)
Post	Varchar(100)
District	Varchar(100)
State	Varchar(100)
Contactno	Varchar(10)
Aadharno	Varchar(12)
Panno	Varchar(10)
Regdate	Varchar(30)

Table Name: Enquiry

Column Name	Data Type
Id	int primary key auto_increment
Name	varchar(50)
Gender	varchar(6)
Address	varchar(100)
contactno	varchar(10)
emailaddress	varchar(50)
enquirytext	varchar(500)
enquirydate	varchar(30)

Table Name: Login

Column Name	Data Type
Userid	varchar(50) primary key
Password	varchar(20)

Table Name: Booking

Column Name	Data Type
Regid	varchar(16)
Name	Varchar(50)
Village	Varchar(100)
Post	Varchar(100)
District	Varchar(100)
State	Varchar(100)
Pincode	varchar(6)
contactno	varchar(10)
aadharno	varchar(12) primary key
noofpacket	Int
duration	Int
Rate	Int
totalamt	Int
advance	Int
Restamt	Int
bookingdate	varchar(30)

Table Name: News

Column Name	Data Type
Id	int primary key auto_increment
newstext	varchar(255)
newdate	varchar(30)

Modules in Project

There are following modules in project: -

- Farmer Management System
- Merchant Management System
- Booking Management
- Stock Management
- News and Events Management
- Enquiry Management
- Login Management
- SMS API Integration

Modules Description

- **Farmer Management System:** - Farmer is an important entity in this project, this module keeps farmer information.
- **Merchant Management System:** - This module keeps merchant information.
- **Booking Management:** - This is an important module of project. In this module farmer can do booking in cold storage for his/her vegetables and fruits.
- **Stock Management:** - In this module cold storage administrator maintains the stock.
- **News and Events Management:** - In this module cold storage administrator can publish news and events, which are displayed on notice board.
- **Enquiry Management:** - If any person wants to do any enquiry, he/she can submit their enquiry which will be displayed on admin panel and administrator can resolve that enquiry.
- **Login Management:** - Login Management module contains user login, change password and reset password.
- **SMS API Integration:** - In this module a system generated SMS will be sent after successful submission of enquiry.

TECHNOLOGIES TRAINED DURING SUMMER TRAINING

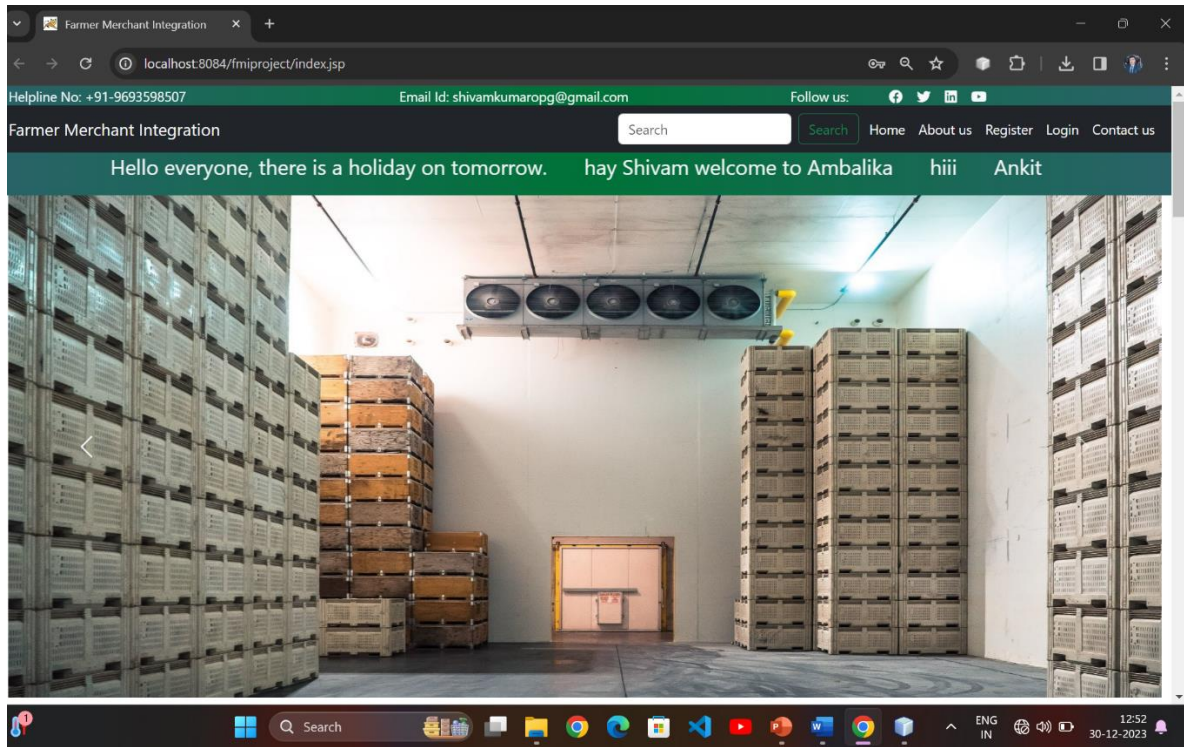
- **HTML:** - HTML is stand for hypertext markup language, this markup language is used to design static web pages. HTML contain pre-defined tags, which are useful to design web pages. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content. HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.
- **CSS:** - CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be displayed on screen, paper, or in other media. CSS is the language we use to style an HTML document. CSS describes how HTML elements should be displayed. CSS saves a lot of work. It can control the layout of multiple web pages all at once. External stylesheets are stored in CSS files.
- **Javascript:** - JavaScript is a scripting or programming language that allows you to implement complex features on web pages — every time a web page does more than just sit there and display static information for you to look at — displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc. — you can bet that JavaScript is probably involved. It is the third layer of the layer cake of standard web technologies, two of which (HTML and CSS).
- **Bootstrap:** - Bootstrap is the most popular HTML, CSS and JavaScript framework for developing a responsive and mobile friendly website. It is absolutely free to download and use. It is a front-end framework used for easier and faster web development. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others. It can also use JavaScript plug-ins. It facilitates you to create responsive designs.
- **Database:** - A database is an organized collection of data, so that it can be easily accessed and managed. You can organize data into tables, rows, columns, and index it to make it easier to find relevant information. Database handlers create a database in such a way that only one set of software program provides access of data to all the users. The main purpose of the database is to operate a large amount of information by storing, retrieving, and managing data. There are many dynamic websites on the World Wide Web nowadays which are handled through databases. For example, a model that checks the availability of rooms in a hotel. It is an example

of a dynamic website that uses a database. There are many databases available like MySQL, Sybase, Oracle, MongoDB, Informix, PostgreSQL, SQL Server, etc.

- **Java:** - Java is an open source, object oriented, high level programming language. Java is a general-purpose programming language. By using java language, you can develop different kinds of applications like desktop applications, web applications, mobile applications, ERP, etc. In project development, we use java as main programming language. In this internship program we develop a web-based application named “**Farmer Merchant Integration (Cold Storage Automation)**”, In this web application we used Java, JSP and JDBC. We use Java as programming language, JSP and JDBC as software technology. JSP is a software technology to create dynamic web application using Java. JDBC stands for Java Database Connectivity, it is also a software technology to connect java application with database. In this web application we use mysql as database management system. For development we use Netbeans 8.0 as IDE (Integrated development environment).

SNAP SHOTS

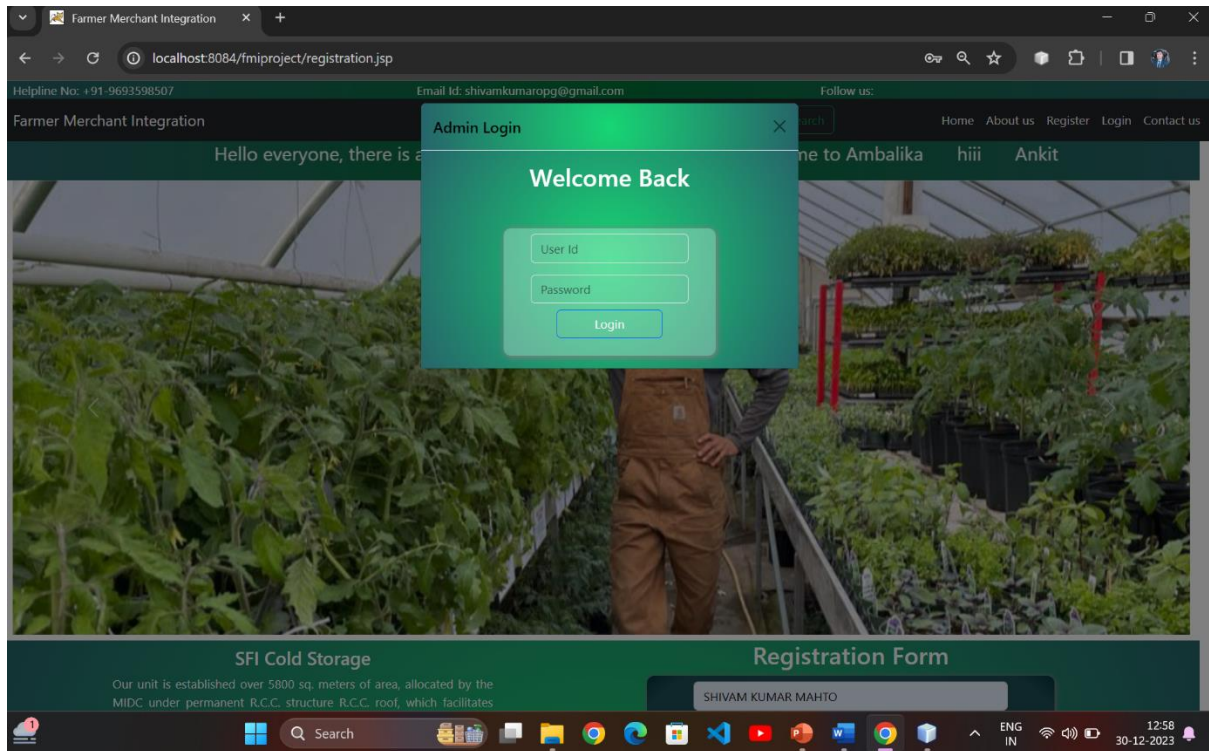
HOME PAGE



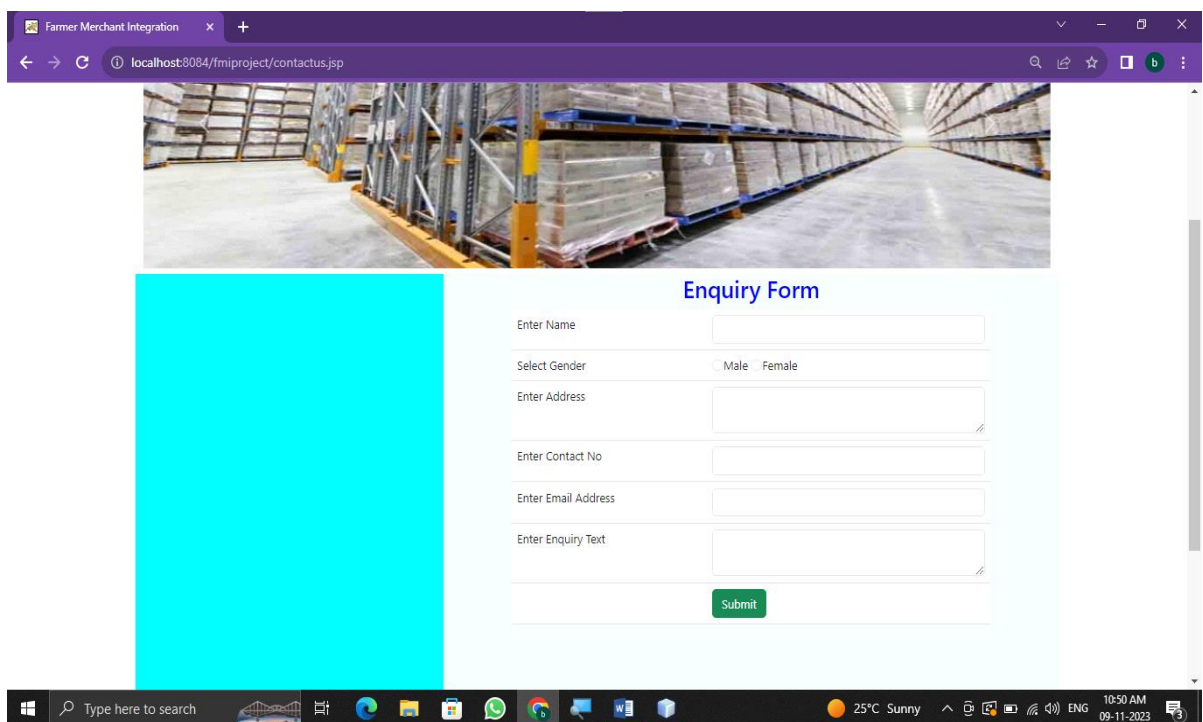
FARMER REGISTRATION PAGE

The screenshot shows the Registration Form on the Farmer Merchant Integration website. The browser address bar displays 'localhost:8084/fmiproject/registration.jsp'. The header is identical to the Home Page. The main content area is divided into two sections. On the left, under the heading 'SFI Cold Storage', there is descriptive text about the facility and a photo of a farmer. On the right, under the heading 'Registration Form', there is a form with the following fields: 'SHIVAM KUMAR MAHTO' (pre-filled), 'Father's Name', 'Mother's Name', 'Select Gender' (radio buttons for Male and Female), 'Village', 'Post', 'District', 'Uttar Pradesh' (pre-filled), '226026' (pre-filled), '09693598507' (pre-filled), 'Aadhar Number', and 'Pan Number'. A 'Submit' button is at the bottom of the form. The Windows taskbar at the bottom shows the system clock as 12:55 on 30-12-2023.

LOGIN PAGE



ENQUIRY PAGE



ADMIN HOME PAGE

Farmer Merchant Integration

News Management

ID	News Text	Posted Date	
1	Hello everyone, there is a holiday on tomorrow.	2023-09-19	Delete
3	hay Shivam welcome to Ambalika	2023-09-22	Delete
4	hili	2023-11-16	Delete
5	Ankit	2023-11-16	Delete

ENQUIRY MANAGEMENT PAGE

Farmer Merchant Integration

Enquiry Management

Id	Name	Gender	Address	Contact No.	Email Address	Enquiry Text	Posted Date	Delete
8	SHIVAM KUMAR MAHTO	Male	jain mandir	9693598507	shivamkumaropg@gmail.com	hellow	2023-09-21	Delete
9	SHIVAM KUMAR MAHTO	Male	jain mandir	9693598507	shivamkumaropg@gmail.com	hii	2023-09-21	Delete
10	aman	Male	bihar	9693598507	shivamkumaropg@gmail.com	hii	2023-09-21	Delete
11	SHIVAM KUMAR MAHTO	Male	jain mandir	9693598507	shivamkumaropg@gmail.com	hii	2023-09-21	Delete
12	raj jumar	Male	bihar	9693598507	shivamkumaropg@gmail.com	hii	2023-09-21	Delete
13	SHIVAM KUMAR MAHTO	Male	jain mandir	8130158279	shivamkumaropg@gmail.com	h	2023-09-21	Delete
14	SHIVAM KUMAR MAHTO	null	jain mandir	8795255578	shivamkumaropg@gmail.com		2023-09-21	Delete
15	SHIVAM KUMAR MAHTO	null	jain mandir	87	shivamkumaropg@gmail.com		2023-09-21	Delete
16	jhghgd	null		8795255578			2023-09-21	Delete

BOOKING MANAGEMENT PAGE

Farmer Merchant Integration

Search

List of Farmers

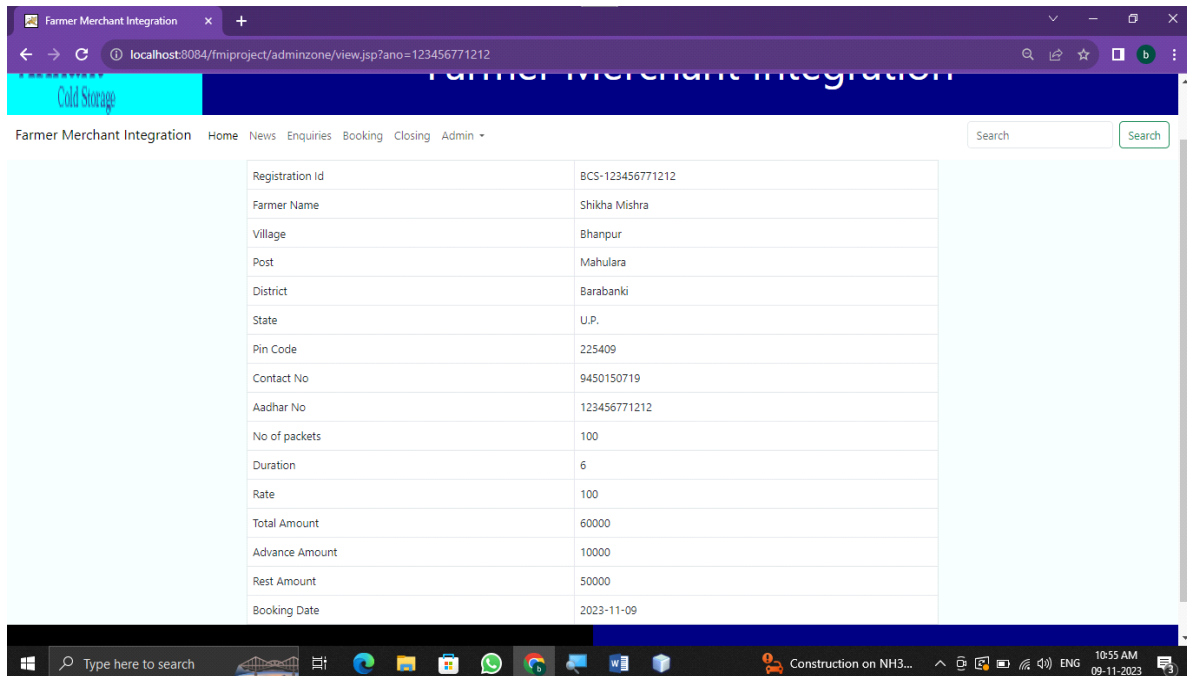
Reg. Id	Name	Village	Post	District	State	Pincode	Contact no.	Aadhar no.	Book	View
BCS-123456789123	Abhijeet Rawat	Inayatpur	Abc	Lucknow	Uttar Pradesh	226017	1234567891	123456789123	<button>Book</button>	<button>View</button>
BCS-123456789012	SHIVAM KUMAR MAHTO	ggblke	ksmfski	lkgef	Uttar Pradesh	226026	879525557	123456789012	<button>Book</button>	<button>View</button>
BCS-2344322555	SHIVAM KUMAR MAHTO	ggblke	ksmfski	lkgef	Uttar Pradesh	226026	9693598507	2344322555	<button>Book</button>	<button>View</button>
BCS-23	SHIVAM KUMAR MAHTO	wert	sd	sdf	Uttar Pradesh	226026	234	23	<button>Book</button>	<button>View</button>
BCS-565656565	SHIVAM KUMAR MAHTO	wert	ksmfski	lkgef	Uttar Pradesh	226026	9835777580	565656565	<button>Book</button>	<button>View</button>

BOOKING MANAGEMENT PAGE – 2

Booking Form

Registration Id	BCS-123456771212
Farmer Name	Shikha Mishra
Village	Bhanpur
Post	Mahulara
District	Barabanki
State	U.P.
Pin Code	225409
Contact No	9450150719
Aadhar No	123456771212
Enter number of packet	100
Enter duration in months	6
Enter Rate	100
Enter advance amount	10000
<button>Submit</button>	

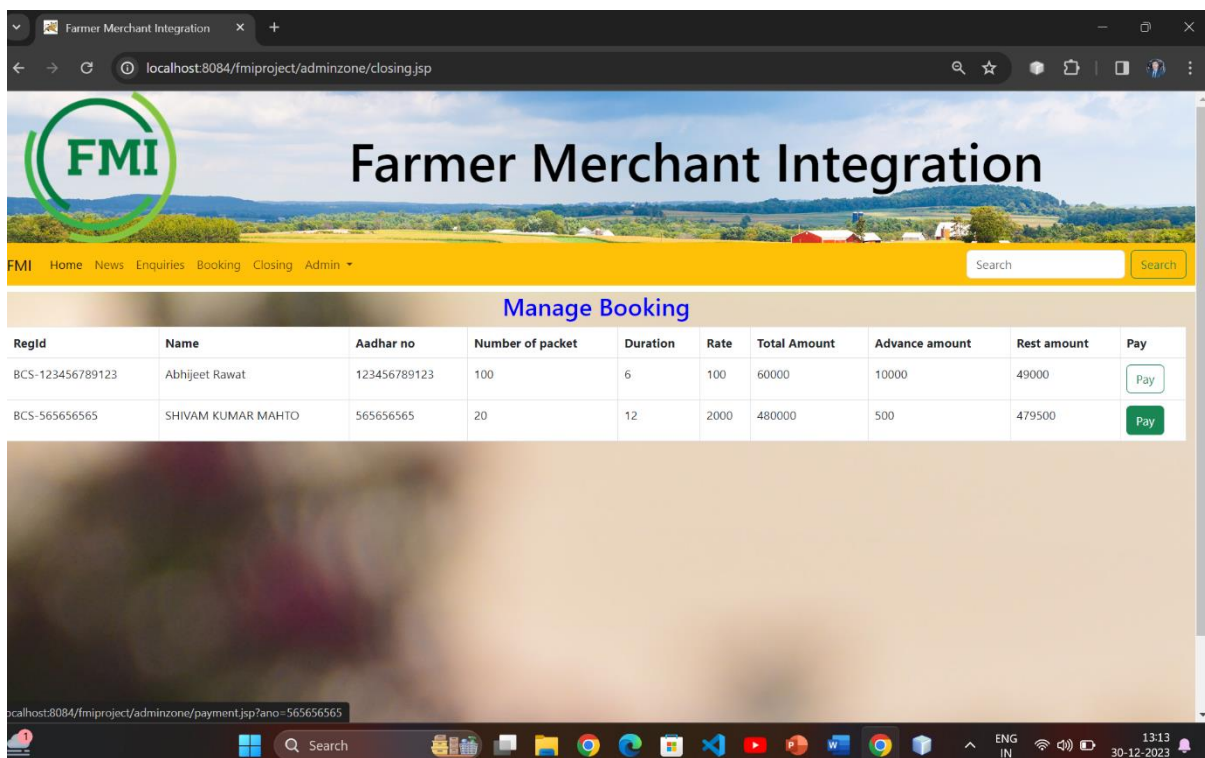
BOOKING MANAGEMENT PAGE – 3



The screenshot shows the 'Farmer Merchant Integration' web application. The top navigation bar includes links for Home, News, Enquiries, Booking, Closing, and Admin. A search bar is located on the right. The main content area displays a table with the following data:

Registration Id	BCS-123456771212
Farmer Name	Shikha Mishra
Village	Bhanpur
Post	Mahulara
District	Barabanki
State	U.P.
Pin Code	225409
Contact No	9450150719
Aadhar No	123456771212
No of packets	100
Duration	6
Rate	100
Total Amount	60000
Advance Amount	10000
Rest Amount	50000
Booking Date	2023-11-09

CLOSING OF FARMER ACCOUNT



The screenshot shows the 'Farmer Merchant Integration' web application. The top navigation bar includes links for Home, News, Enquiries, Booking, Closing, and Admin. A search bar is located on the right. The main content area displays a table with the following data:

RegId	Name	Aadhar no	Number of packet	Duration	Rate	Total Amount	Advance amount	Rest amount	Pay
BCS-123456789123	Abhijeet Rawat	123456789123	100	6	100	60000	10000	49000	<button>Pay</button>
BCS-565656565	SHIVAM KUMAR MAHTO	565656565	20	12	2000	480000	500	479500	<button>Pay</button>

CLOSING OF FARMER ACCOUNT PAGE -2

The screenshot shows a web browser window with the URL `localhost:8084/fmiproject/adminzone/payment.jsp?ano=565656565`. The page features the FMI logo and a navigation bar with links: Home, News, Enquiries, Booking, Closing, and Admin. A search bar is located on the right. The main content area is titled "Do Payment" and contains a form with the following fields:

Aadhar No	565656565
Total Amount	480000
Rest Amount	479500
Pay Amount	<input type="text"/>
<input type="button" value="Pay"/>	

The Windows taskbar at the bottom shows the system time as 13:12 on 30-12-2023.

CHANGE PASSWORD PAGE

The screenshot shows a web browser window with the URL `localhost:8084/fmiproject/adminzone/changepassword.jsp`. The page features the FMI logo and a navigation bar with links: Home, News, Enquiries, Booking, Closing, and Admin. A search bar is located on the right. The main content area is titled "Change Password" and contains a form with the following fields:

Old Password	<input type="text"/>
New Password	<input type="text"/>
Confirm Password	<input type="text"/>
<input type="button" value="Change"/>	

The Windows taskbar at the bottom shows the system time as 13:11 on 30-12-2023.

PROGRAM

DbManager.java

```
package dbpack;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

public class DbManager {
    Connection con=null;
    PreparedStatement ps=null;
    ResultSet rs=null;
    public DbManager()
    {
        try
        {
            Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/fmidb?characterEncoding=utf-8","root","");
        }
        catch(ClassNotFoundException e1)
        {
            e1.printStackTrace();
        }
        catch(SQLException e2)
        {
            e2.printStackTrace();
        }
    }
    public boolean insertUpdateDelete(String query)
    {
        try
        {
            ps=con.prepareStatement(query);
            if(ps.executeUpdate()>0)
```

```

        {
            return true;
        }
        else
        {
            return false;
        }
    }
    catch(SQLException e)
    {
        return false;
    }
}
public ResultSet select(String query)
{
    try
    {
        ps=con.prepareStatement(query);
        rs=ps.executeQuery();
    }
    catch(SQLException e)
    {
        e.printStackTrace();
    }
    return rs;
}
}

```

SmsSender.java

```

package Connect;
import java.net.*;
import java.io.*;

public class SmsSender
{
    public static String user,key,message,senderid,accusage,entityid,tempid,retval="";
    public SmsSender()
    {
        user="SHIVAM MAHTO";
    }
}

```

```

key="066c862acdXX";
message="Thanks for enquiry we will contact you soon. -Bulk SMS";
senderid="UPDSMS";
accusage="1";
entityid="1201159543060917386";
tempid="1207169476099469445";

}
public boolean sendSms(String mobile)
{
    try
    {
        String smsurl="http://sms.bulkssms.com/submitsms.jsp";
        String data=URLEncoder.encode("user", "UTF-8")+"="+URLEncoder.encode(user, "UTF-8");
        data +="&"+URLEncoder.encode("key", "UTF-8")+"="+URLEncoder.encode(key, "UTF-8");
        data +="&"+URLEncoder.encode("mobile", "UTF-8")+"="+URLEncoder.encode(mobile, "UTF-8");
        data +="&"+URLEncoder.encode("message", "UTF-8")+"="+URLEncoder.encode(message, "UTF-8");
        data +="&"+URLEncoder.encode("senderid", "UTF-8")+"="+URLEncoder.encode(senderid, "UTF-8");
        data +="&"+URLEncoder.encode("accusage", "UTF-8")+"="+URLEncoder.encode(accusage, "UTF-8");
        data +="&"+URLEncoder.encode("entityid", "UTF-8")+"="+URLEncoder.encode(entityid, "UTF-8");
        data +="&"+URLEncoder.encode("tempid", "UTF-8")+"="+URLEncoder.encode(tempid, "UTF-8");
        URL url=new URL(smsurl);
        URLConnection con=url.openConnection();
        con.setDoOutput(true);
        //Push the Message
        OutputStreamWriter wr=new OutputStreamWriter(con.getOutputStream());
        wr.write(data);
        wr.flush();
        //Get the response
        BufferedReader rd=new BufferedReader(new InputStreamReader(con.getInputStream()));
        String line;
        while((line=rd.readLine())!=null)
        {

```

```

        retval+=line;
    }
    wr.close();
    rd.close();
    return true;
    }
    catch(Exception ex)
    {
        return false;
    }
}
}

```

Index.jsp

```

<%--
    Document   : index
    Created on : 10 Sep, 2023, 10:09:26 AM
    Author    : Shivam Mahto
--%>

<% @page contentType="text/html" pageEncoding="UTF-8"% >
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Farmer Merchant Integration</title>
        <link href="css/bootstrap.css" rel="stylesheet"/>
        <script src="js/bootstrap.bundle.js"></script>
    </head>
    <body>
        <div class="container">
            <jsp:include page="header.jsp"/>
            <div class="row mt-2">
                <div class="col-sm-4" style="min-height:600px;background-color:aqua;"></div>
                <div class="col-sm-8" style="min-height:600px;background-
color:aliceblue;"></div>
            </div>
            <jsp:include page="footer.jsp"/>
        </div>
    </body>

```

</html>

Contactus.jsp

<%--

Document : index

Created on : 30 Dec, 2023, 10:09:26 AM

Author : Shivam Mahto

--%>

<% @page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Farmer Merchant Integration</title>

<link href="css/bootstrap.css" rel="stylesheet"/>

<script src="js/bootstrap.bundle.js"></script>

</head>

<body>

<div class="container">

<jsp:include page="header.jsp"/>

<div class="row mt-2">

<div class="col-sm-4" style="min-height:600px;background-color:aqua;"></div>

<div class="col-sm-8" style="min-height:600px;background-color:aliceblue;">

<h2 style="text-align:center;color:blue;">Enquiry Form</h2>

<form class="form-group" method="post" action="controller.jsp">

<input type="hidden" name="page" value="contactus"/>

<table class="table" style="width:80%;margin:auto;">

<tr>

<td>Enter Name</td>

<td>

<input type="text" name="name" class="form-control"/>

</td>

</tr>

<tr>

<td>Select Gender</td>

<td>

<input type="radio" name="gender" value="Male" class="form-check-

input"/>Male


```

        <input type="radio" name="gender" value="Female" class="form-
check-input"/>Female
    </td>
</tr>
<tr>
    <td>Enter Address</td>
    <td>
        <textarea name="address" class="form-control"></textarea>
    </td>
</tr>
<tr>
    <td>Enter Contact No</td>
    <td>
        <input type="number" name="contactno" class="form-control"/>
    </td>
</tr>
<tr>
    <td>Enter Email Address</td>
    <td>
        <input type="text" name="emailaddress" class="form-control"/>
    </td>
</tr>
<tr>
    <td>Enter Enquiry Text</td>
    <td>
        <textarea name="enquirytext" class="form-control"></textarea>
    </td>
</tr>
<tr>
    <td></td>
    <td>
        <button type="submit" class="btn btn-success">Submit</button>
    </td>
</tr>
</table>
</form>
</div>
</div>
<jsp:include page="footer.jsp"/>
</div>
</body>

```

</html>

Login.jsp

<%--

Document : index

Created on : 10 Sep, 2023, 10:09:26 AM

Author : Shivam Mahto

--%>

<% @page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Farmer Merchant Integration</title>

<link href="css/bootstrap.css" rel="stylesheet"/>

<script src="js/bootstrap.bundle.js"></script>

</head>

<body>

<div class="container">

<jsp:include page="header.jsp"/>

<div class="row mt-2">

<div class="col-sm-4" style="min-height:600px;background-color:aqua;"></div>

<div class="col-sm-8" style="min-height:600px;background-color:aliceblue;">

<h2 style="color:blue;text-align:center;">Admin Login</h2>

<form class="form-group" method="post" action="controller.jsp">

<input type="hidden" name="page" value="login"/>

<table class="table" style="margin:0 auto;width:80%;">

<tr>

<td>Enter Userid</td>

<td>

<input type="text" name="userid" class="form-control"/>

</td>

</tr>

<tr>

<td>Enter Password</td>

<td>

<input type="password" name="password" class="form-control"/>

</td>

```

        </tr>
        <tr>
            <td></td>
            <td>
                <button type="submit" class="btn btn-success">Login</button>
            </td>
        </tr>
    </table>
</form>
</div>
</div>
<jsp:include page="footer.jsp"/>
</div>
</body>
</html>

```

Registration.jsp

```

<%--
    Document   : index
    Created on : 10 Sep, 2023, 10:09:26 AM
    Author    : Shivam Mahto
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Farmer Merchant Integration</title>
        <link href="css/bootstrap.css" rel="stylesheet"/>
        <script src="js/bootstrap.bundle.js"></script>
    </head>
    <body>
        <div class="container">
            <jsp:include page="header.jsp"/>
            <div class="row mt-2">
                <div class="col-sm-4" style="min-height:600px;background-color:aqua;"></div>
                <div class="col-sm-8" style="min-height:600px;background-color:aliceblue;">
                    <h2 style="color:blue;text-align: center;">Farmer Registration Form</h2>

```

```

<form class="form-group" method="post" action="controller.jsp">
  <input type="hidden" name="page" value="registration"/>
  <table class="table table-bordered" style="margin:auto;width:80%;">
    <tr>
      <td>Enter Name</td>
      <td>
        <input type="text" name="name" class="form-control"/>
      </td>
    </tr>
    <tr>
      <td>Enter Father Name</td>
      <td>
        <input type="text" name="fname" class="form-control"/>
      </td>
    </tr>
    <tr>
      <td>Enter Mother Name</td>
      <td>
        <input type="text" name="mname" class="form-control"/>
      </td>
    </tr>
    <tr>
      <td>Select Gender</td>
      <td>
        <input type="radio" name="gender" value="Male" class="form-check-
input"/>Male
        <input type="radio" name="gender" value="Female" class="form-
check-input"/>Female
      </td>
    </tr>
    <tr>
      <td>Enter Village Name</td>
      <td>
        <input type="text" name="village" class="form-control"/>
      </td>
    </tr>
    <tr>
      <td>Enter Post Name</td>
      <td>
        <input type="text" name="post" class="form-control"/>
      </td>
    </tr>
  </table>
</form>

```

```

</tr>
<tr>
  <td>Enter District Name</td>
  <td>
    <input type="text" name="district" class="form-control"/>
  </td>
</tr>
<tr>
  <td>Enter State Name</td>
  <td>
    <input type="text" name="state" class="form-control"/>
  </td>
</tr>
<tr>
  <td>Enter PIN Code</td>
  <td>
    <input type="number" name="pincode" class="form-control"/>
  </td>
</tr>
<tr>
  <td>Enter Contact No</td>
  <td>
    <input type="number" name="contactno" class="form-control"/>
  </td>
</tr>
<tr>
  <td>Enter Aadhar No</td>
  <td>
    <input type="number" name="aadhar" class="form-control"/>
  </td>
</tr>
<tr>
  <td>Enter PAN No.</td>
  <td>
    <input type="text" name="panno" class="form-control"/>
  </td>
</tr>
<tr>
  <td></td>
  <td>
    <button type="submit" class="btn btn-success">Submit</button>
  </td>
</tr>

```

```

        </td>
    </tr>
</table>
</form>
</div>
</div>
<jsp:include page="footer.jsp"/>
</div>
</body>
</html>

```

Controller.jsp

```

<% @page import="Connect.SmsSender"%>
<% @page import="java.sql.ResultSet"%>
<% @page import="dbpack.DbManager"%>
<%
    if(request.getParameter("page").equals("contactus"))
    {
        String name=request.getParameter("name");
        String gender=request.getParameter("gender");
        String address=request.getParameter("address");
        String contactno=request.getParameter("contactno");
        String emailaddress=request.getParameter("emailaddress");
        String enquirytext=request.getParameter("enquirytext");
        DbManager dm=new DbManager();
        String query="insert into enquiry(name, gender, address, contactno, emailaddress,
enquirytext, enquirydate)
values('"+name+"','"+gender+"','"+address+"','"+contactno+"','"+emailaddress+"','"+enquiryte
xt+"',curdate())";
        boolean res=dm.insertUpdateDelete(query);
        if(res==true)
        {
            SmsSender ss=new SmsSender();
            ss.sendSms(contactno);
            out.print("<script>alert('Enquiry is
submitted');window.location.href='contactus.jsp';</script>");
        }
        else
        {

```

```

        out.print("<script>alert('Enquiry is not
submitted');window.location.href='contactus.jsp';</script>");
    }
}
else if(request.getParameter("page").equals("registration"))
{
    String name=request.getParameter("name");
    String fname=request.getParameter("fname");
    String mname=request.getParameter("mname");
    String gender=request.getParameter("gender");
    String village=request.getParameter("village");
    String post=request.getParameter("post");
    String district=request.getParameter("district");
    String state=request.getParameter("state");
    String pincode=request.getParameter("pincode");
    String contactno=request.getParameter("contactno");
    String aadharno=request.getParameter("aadharno");
    String panno=request.getParameter("panno");
    String regid="BCS-"+aadharno;
    DbManager dm=new DbManager();
    String query="insert into farmerinfo
values('"+regid+"','"+name+"','"+fname+"','"+mname+"','"+gender+"','"+village+"','"+post+"',
 '"+district+"','"+state+"','"+pincode+"','"+contactno+"','"+aadharno+"','"+panno+"',curdate())"
;
    boolean res=dm.insertUpdateDelete(query);
    if(res==true)
    {
        out.print("<script>alert('Farmer registration is
done');window.location.href='registration.jsp';</script>");
    }
    else
    {
        out.print("<script>alert('Error');window.location.href='registration.jsp';</script>");
    }
}
else if(request.getParameter("page").equals("login"))
{
    String userid=request.getParameter("userid");
    String password=request.getParameter("password");
    DbManager dm=new DbManager();

```

```

String query="select * from login where userid='"+userid+"' and
password='"+password+"'";
ResultSet rs=dm.select(query);
if(rs.next())
{
    session.setAttribute("adminid", userid);
    response.sendRedirect("adminzone/FMI.jsp");
}
else
{
    out.print("<script>alert('Invalid User');window.location.href='login.jsp';</script>");
}

}
%>

```

News.jsp

```

<%--
Document : FMI
Created on : 30 dec, 2023, 10:10:49 AM
Author : Shivam Mahto
--%>
<% @page import="java.sql.ResultSet"%>
<% @page import="dbpack.DbManager"%>
<%
if(session.getAttribute("adminid")==null)
{
    response.sendRedirect("../login.jsp");
}
else
{
%>
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Farmer Merchant Integration</title>

```



```

<link href="../../css/bootstrap.css" rel="stylesheet"/>
<script src="../../js/bootstrap.bundle.js"></script>
</head>
<body>
  <div class="container-fluid">
    <jsp:include page="header.jsp"/>
    <div class="row mt-2">
      <div class="col-sm-12" style="min-height: 600px;background-color: aliceblue;">
        <h2 style="color:blue;text-align:center;">Add News & Events</h2>
        <form class="form-group" method="post" action="admincontroller.jsp">
          <input type="hidden" name="page" value="news"/>
          <table class="table table-bordered" style="width:70%;margin:auto;">
            <tr>
              <td>Enter News</td>
              <td>
                <textarea name="newstext" class="form-control"></textarea>
              </td>
            </tr>
            <tr>
              <td></td>
              <td>
                <button type="submit" class="btn btn-success">Add</button>
              </td>
            </tr>
          </table>
        </form>
        <br/>
        <h2 style="text-align:center;color:blue;">News Management</h2>
        <table class="table table-bordered" style="width:80%;margin: auto;">
          <tr>
            <th>Id</th>
            <th>News Text</th>
            <th>Posted Date</th>
            <th>Delete</th>
          </tr>
          <%
            DbManager dm=new DbManager();
            ResultSet rs=dm.select("select * from news");
            while(rs.next())
            {
          %>

```

```

        <tr>
            <td><%=rs.getInt("id")%></td>
            <td><%=rs.getString("newstext")%></td>
            <td><%=rs.getString("posteddate")%></td>
            <td>
                <a href="deletenews.jsp?id=<%=rs.getInt("id")%>">
                    <button class="btn btn-danger">Delete</button>
                </a>
            </td>
        </tr>
    <% } %>
</table>
</div>
</div>
<div class="row">
    <div class="col-sm-6" style="height:80px;background-
color:black;color:white;font-size:25px;text-align:center;line-height:80px;">
        Copyright &copy; to Farmer Merchant Integration
    </div>
    <div class="col-sm-6" style="height:80px;background-color:navy;color:white;font-
size:25px;text-align:center;line-height:80px;">
        Developed By:- Shivam Mahto
    </div>
</div>
</div>
</body>
</html>
<% } %>

```

Deletenews.jsp

```

<% @page import="dbpack.DbManager"%>
<%
    String id=request.getParameter("id");
    DbManager dm=new DbManager();
    String query="delete from news where id='"+id+"'";
    if(dm.insertUpdateDelete(query)==true)
    {
        out.print("<script>alert('News is deleted');window.location.href='news.jsp';</script>");
    }

```

```

else
{
    out.print("<script>alert('News is not
deleted');window.location.href='news.jsp';</script>");
}
%>

```

Enquiry.jsp

```

<%--
    Document   : FMI
    Created on : 30 dec, 2023, 10:10:49 AM
    Author    : Shivam Mahto
--%>
<% @page import="java.sql.ResultSet"%>
<% @page import="dbpack.DbManager"%>
<%
    if(session.getAttribute("adminid")==null)
    {
        response.sendRedirect("../login.jsp");
    }
    else
    {
%>
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Farmer Merchant Integration</title>
    <link href="../css/bootstrap.css" rel="stylesheet"/>
    <script src="../js/bootstrap.bundle.js"></script>
</head>
<body>
    <div class="container-fluid">
        <jsp:include page="header.jsp"/>
        <div class="row mt-2">
            <div class="col-sm-12" style="min-height: 600px;background-color: aliceblue;">
                <h2 style="text-align:center;color:blue;">Enquiry Management</h2>
                <table class="table table-bordered" style="width:90%;margin:auto;">

```

```

<tr>
    <th>Id</th>
    <th>Name</th>
    <th>Gender</th>
    <th>Address</th>
    <th>Contact No</th>
    <th>Email Address</th>
    <th>Enquiry Text</th>
    <th>Posted Date</th>
    <th>Delete</th>
</tr>
<%
    DbManager dm=new DbManager();
    String query="select * from enquiry";
    ResultSet rs=dm.select(query);
    while(rs.next())
    {
%>
<tr>
    <td><%=rs.getInt("id")%></td>
    <td><%=rs.getString("name")%></td>
    <td><%=rs.getString("gender")%></td>
    <td><%=rs.getString("address")%></td>
    <td><%=rs.getString("contactno")%></td>
    <td><%=rs.getString("emailaddress")%></td>
    <td><%=rs.getString("enquirytext")%></td>
    <td><%=rs.getString("enquirydate")%></td>
    <td>
        <a href="delenq.jsp?id=<%=rs.getInt("id")%>">
            <button class="btn btn-danger">Delete</button>
        </a>
    </td>
</tr>

<% } %>
</table>
</div>
</div>
<div class="row">
    <div class="col-sm-6" style="height:80px;background-
color:black;color:white;font-size:25px;text-align:center;line-height:80px;">

```

```

        Copyright &copy; to Farmer Merchant Integration
    </div>
    <div class="col-sm-6" style="height:80px;background-color:navy;color:white;font-
size:25px;text-align:center;line-height:80px;">
        Developed By:- Shivam Mahto
    </div>
</div>
</div>
</body>
</html>
<% } %>

```

Delenq.jsp

```

<% @page import="dbpack.DbManager"%>
<%
    String id=request.getParameter("id");
    DbManager dm=new DbManager();
    String query="delete from enquiry where id='"+id+"'";
    if(dm.insertUpdateDelete(query)==true)
    {
        out.print("<script>alert('Enquiry is
deleted');window.location.href='enquiry.jsp';</script>");
    }
    else
    {
        out.print("<script>alert('Enquiry is not
deleted');window.location.href='enquiry.jsp';</script>");
    }
%>

```

Booking.jsp

```

<%--
    Document : FMI
    Created on : 30 dec, 2023, 10:10:49 AM
    Author : Shivam Mahto
--%>
<% @page import="java.sql.ResultSet"%>
<% @page import="dbpack.DbManager"%>
<%
    if(session.getAttribute("adminid")==null)

```

```

    {
        response.sendRedirect("../login.jsp");
    }
    else
    {
%>
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Farmer Merchant Integration</title>
        <link href="../css/bootstrap.css" rel="stylesheet"/>
        <script src="../js/bootstrap.bundle.js"></script>
    </head>
    <body>
        <div class="container-fluid">
            <jsp:include page="header.jsp"/>
            <div class="row mt-2">
                <div class="col-sm-12" style="min-height: 600px;background-color: aliceblue;">
                    <h2 style="color:blue;text-align:center;">List Of Farmers</h2>
                    <table class="table table-bordered">
                        <tr>
                            <th>Reg.Id</th>
                            <th>Name</th>
                            <th>Village</th>
                            <th>Post</th>
                            <th>District</th>
                            <th>State</th>
                            <th>Pin Code</th>
                            <th>Contact No</th>
                            <th>Aadhar No</th>
                            <th>Book</th>
                            <th>View</th>
                        </tr>
                        <%
                            DbManager dm=new DbManager();
                            ResultSet rs=dm.select("select * from farmerinfo");
                            while(rs.next())
                            {
%>

```

```

<tr>
  <td><%=rs.getString("regid")%></td>
  <td><%=rs.getString("name")%></td>
  <td><%=rs.getString("village")%></td>
  <td><%=rs.getString("post")%></td>
  <td><%=rs.getString("district")%></td>
  <td><%=rs.getString("state")%></td>
  <td><%=rs.getString("pincode")%></td>
  <td><%=rs.getString("contactno")%></td>
  <td><%=rs.getString("aadharno")%></td>
  <td>
    <a href="validate.jsp?ano=<%=rs.getString("aadharno")%>">
      <button class="btn btn-success">Book</button>
    </a>
  </td>
  <td>
    <a href="view.jsp?ano=<%=rs.getString("aadharno")%>">
      <button class="btn btn-primary">View</button>
    </a>
  </td>
</tr>
<% } %>

</table>
</div>
</div>
<div class="row">
  <div class="col-sm-6" style="height:80px;background-
color:black;color:white;font-size:25px;text-align:center;line-height:80px;">
    Copyright &copy; to Farmer Merchant Integration
  </div>
  <div class="col-sm-6" style="height:80px;background-color:navy;color:white;font-
size:25px;text-align:center;line-height:80px;">
    Developed By:- Shivam Mahto
  </div>
</div>
</div>
</body>
</html>
<% } %>

```

Book.jsp

```
<%--
    Document : FMI
    Created on : 30 dec, 2023, 10:10:49 AM
    Author : Shivam Mahto
--%>
<% @page import="java.sql.ResultSet"%>
<% @page import="dbpack.DbManager"%>
<%
    if(session.getAttribute("adminid")==null)
    {
        response.sendRedirect("../login.jsp");
    }
    else
    {
%>
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Farmer Merchant Integration</title>
    <link href="../css/bootstrap.css" rel="stylesheet"/>
    <script src="../js/bootstrap.bundle.js"></script>
</head>
<body>
    <div class="container-fluid">
        <jsp:include page="header.jsp"/>
        <div class="row mt-2">
            <div class="col-sm-12" style="min-height: 600px;background-color: aliceblue;">
                <h2 style="color:blue;text-align:center;">Booking Form</h2>
                <%
                    String aadharno=session.getAttribute("ano").toString();
                    DbManager dm=new DbManager();
                    String query="select * from farmerinfo where aadharno='"+aadharno+"'";
                    ResultSet rs=dm.select(query);
                    if(rs.next())
                    {
%>
                <form class="form-group" method="post" action="admincontroller.jsp">
```



```

<input type="hidden" name="page" value="book"/>
<table class="table table-bordered" style="margin: auto; width:70%;">
  <tr>
    <td>Registration Id</td>
    <td>
      <input type="text" name="regid"
value="<%=rs.getString("regid")%>" class="form-control" readonly/>
    </td>
  </tr>
  <tr>
    <td>Farmer Name</td>
    <td>
      <input type="text" name="name"
value="<%=rs.getString("name")%>" class="form-control" readonly/>
    </td>
  </tr>
  <tr>
    <td>Village</td>
    <td>
      <input type="text" name="village"
value="<%=rs.getString("village")%>" class="form-control" readonly/>
    </td>
  </tr>
  <tr>
    <td>Post</td>
    <td>
      <input type="text" name="post" value="<%=rs.getString("post")%>"
class="form-control" readonly/>
    </td>
  </tr>
  <tr>
    <td>District</td>
    <td>
      <input type="text" name="district"
value="<%=rs.getString("district")%>" class="form-control" readonly/>
    </td>
  </tr>
  <tr>
    <td>State</td>
    <td>

```

```

        <input type="text" name="state" value="<%=rs.getString("state")%>"
class="form-control" readonly/>
    </td>
</tr>
<tr>
    <td>Pin Code</td>
    <td>
        <input type="text" name="pincode"
value="<%=rs.getString("pincode")%>" class="form-control" readonly/>
    </td>
</tr>
<tr>
    <td>Contact No</td>
    <td>
        <input type="text" name="contactno"
value="<%=rs.getString("contactno")%>" class="form-control" readonly/>
    </td>
</tr>
<tr>
    <td>Aadhar No</td>
    <td>
        <input type="text" name="aadharno"
value="<%=rs.getString("aadharno")%>" class="form-control" readonly/>
    </td>
</tr>
<tr>
    <td>Enter number of packet</td>
    <td>
        <input type="number" required name="noofpacket" class="form-
control"/>
    </td>
</tr>
<tr>
    <td>Enter duration in months</td>
    <td>
        <input type="number" required name="duration" class="form-
control"/>
    </td>
</tr>
<tr>
    <td>Enter Rate</td>

```

```

        <td>
            <input type="number" required name="rate" class="form-control"/>
        </td>
    </tr>
    <tr>
        <td>Enter advance amount</td>
        <td>
            <input type="number" required name="advanceamt" class="form-
control"/>
        </td>
    </tr>
    <tr>
        <td></td>
        <td>
            <button type="submit" class="btn btn-success">Submit</button>
        </td>
    </tr>
</table>
</form>
<% } %>
</div>
</div>
<div class="row">
    <div class="col-sm-6" style="height:80px;background-
color:black;color:white;font-size:25px;text-align:center;line-height:80px;">
        Copyright &copy; to Farmer Merchant Integration
    </div>
    <div class="col-sm-6" style="height:80px;background-color:navy;color:white;font-
size:25px;text-align:center;line-height:80px;">
        Developed By:- Shivam Mahto
    </div>
</div>
</div>
</body>
</html>
<% } %>

```

Closing.jsp

```
<%--
    Document : FMI
    Created on : 30 dec, 2023, 10:10:49 AM
    Author : Shivam Mahto
--%>
<% @page import="java.sql.ResultSet"%>
<% @page import="dbpack.DbManager"%>
<%
    if(session.getAttribute("adminid")==null)
    {
        response.sendRedirect("../login.jsp");
    }
    else
    {
%>
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Farmer Merchant Integration</title>
        <link href="../css/bootstrap.css" rel="stylesheet"/>
        <script src="../js/bootstrap.bundle.js"></script>
    </head>
    <body>
        <div class="container-fluid">
            <jsp:include page="header.jsp"/>
            <div class="row mt-2">
                <div class="col-sm-12" style="min-height: 600px;background-color: aliceblue;">
                    <h2 style="color:blue;text-align:center;">Manage Booking</h2>
                    <table class="table table-bordered">
                        <tr>
                            <th>Reg. Id</th>
                            <th>Name</th>
                            <th>Aadhar No</th>
                            <th>No. Of Packets</th>
                            <th>Duration</th>
                            <th>Rate</th>

```

```

        <th>Total Amount</th>
        <th>Advance Amount</th>
        <th>Rest Amount</th>
        <th>Pay</th>
    </tr>
    <%
        DbManager dm=new DbManager();
        ResultSet rs=dm.select("select * from booking");
        while(rs.next())
        {
    %>
    <tr>
        <td><%=rs.getString("regid")%></td>
        <td><%=rs.getString("name")%></td>
        <td><%=rs.getString("aadharno")%></td>
        <td><%=rs.getString("noofpacket")%></td>
        <td><%=rs.getString("duration")%></td>
        <td><%=rs.getString("rate")%></td>
        <td><%=rs.getString("totalamt")%></td>
        <td><%=rs.getString("advanceamt")%></td>
        <td><%=rs.getString("restamt")%></td>
        <td>
            <a href="payment.jsp?ano=<%=rs.getString("aadharno")%>">
                <button class="btn btn-success">Pay</button>
            </a>
        </td>
    </tr>
    <% } %>
    </table>
</div>
</div>
<div class="row">
    <div class="col-sm-6" style="height:80px;background-
color:black;color:white;font-size:25px;text-align:center;line-height:80px;">
        Copyright &copy; to Farmer Merchant Integration
    </div>
    <div class="col-sm-6" style="height:80px;background-color:navy;color:white;font-
size:25px;text-align:center;line-height:80px;">
        Developed By:- Shivam Mahto
    </div>
</div>

```

```

        </div>
    </body>
</html>
<% } %>

```

Payment.jsp

```

<%--
    Document : FMI
    Created on : 30 dec, 2023, 10:10:49 AM
    Author : Shivam Mahto
--%>
<% @page import="java.sql.ResultSet"%>
<% @page import="dbpack.DbManager"%>
<%
    if(session.getAttribute("adminid")==null)
    {
        response.sendRedirect("../login.jsp");
    }
    else
    {
%>
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Farmer Merchant Integration</title>
        <link href="../css/bootstrap.css" rel="stylesheet"/>
        <script src="../js/bootstrap.bundle.js"></script>
    </head>
    <body>
        <div class="container-fluid">
            <jsp:include page="header.jsp"/>
            <div class="row mt-2">
                <div class="col-sm-12" style="min-height: 600px;background-color: aliceblue;">
                    <h2 style="color:blue;text-align:center;">Do Payment</h2>
                <%
                    DbManager dm=new DbManager();
                    String ano=request.getParameter("ano");
                    String query="select * from booking where aadharno='"+ano+"'";

```

```

ResultSet rs=dm.select(query);
if(rs.next())
{
%>
<form class="form-group" method="post" action="admincontroller.jsp">
  <input type="hidden" name="page" value="payment"/>
  <table class="table table-bordered" style="width:60%;margin:auto">
    <tr>
      <td>Aadhar No</td>
      <td>
        <input type="text" name="aadhar"
value="<%=rs.getString("aadhar")%>" class="form-control" readonly/>
      </td>
    </tr>
    <tr>
      <td>Total Amount</td>
      <td>
        <input type="number" name="totalamt"
value="<%=rs.getString("totalamt")%>" class="form-control" readonly/>
      </td>
    </tr>
    <tr>
      <td>Rest Amount</td>
      <td>
        <input type="number" name="restamt"
value="<%=rs.getString("restamt")%>" class="form-control" readonly/>
      </td>
    </tr>
    <tr>
      <td>Pay Amount</td>
      <td>
        <input type="number" name="payamt" class="form-control"/>
      </td>
    </tr>
    <tr>
      <td></td>
      <td>
        <button type="submit" class="btn btn-success">Pay</button>
      </td>
    </tr>
  </table>

```

```

        </form>
        <% } %>s
    </div>
</div>
<div class="row">
    <div class="col-sm-6" style="height:80px;background-
color:black;color:white;font-size:25px;text-align:center;line-height:80px;">
        Copyright &copy; to Farmer Merchant Integration
    </div>
    <div class="col-sm-6" style="height:80px;background-color:navy;color:white;font-
size:25px;text-align:center;line-height:80px;">
        Developed By:- Shivam Mahto
    </div>
</div>
</div>
</body>
</html>
<% } %>

```

Validate.jsp

```

<% @page import="java.sql.ResultSet"%>
<% @page import="dbpack.DbManager"%>
<%
    String ano=request.getParameter("ano");
    DbManager dm=new DbManager();
    String query="select * from booking where aadharno='"+ano+"'";
    ResultSet rs=dm.select(query);
    if(rs.next())
    {
        out.print("<script>alert('Booking is already
done');window.location.href='booking.jsp';</script>");
    }
    else
    {
        session.setAttribute("ano", ano);
        response.sendRedirect("book.jsp");
    }
%>

```


View.jsp

```
<%--
    Document : FMI
    Created on : 30 dec, 2023, 10:10:49 AM
    Author : Shivam Mahto
--%>
<% @page import="java.sql.ResultSet"%>
<% @page import="dbpack.DbManager"%>
<%
    if(session.getAttribute("adminid")==null)
    {
        response.sendRedirect("../login.jsp");
    }
    else
    {
%>
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Farmer Merchant Integration</title>
        <link href="../css/bootstrap.css" rel="stylesheet"/>
        <script src="../js/bootstrap.bundle.js"></script>
    </head>
    <body>
        <div class="container-fluid">
            <jsp:include page="header.jsp"/>
            <div class="row mt-2">
```

```

<div class="col-sm-12" style="min-height: 600px;background-color: aliceblue;">
    <%
        DbManager dm=new DbManager();
        String ano=request.getParameter("ano");
        String query="select * from booking where aadharno='"+ano+"'";
        ResultSet rs=dm.select(query);
        if(rs.next())
        {
    %>
    <table class="table table-bordered" style="width:60%;margin:auto;">
        <tr>
            <td>Registration Id</td>
            <td><%=rs.getString("regid")%></td>
        </tr>
        <tr>
            <td>Farmer Name</td>
            <td><%=rs.getString("name")%></td>
        </tr>
        <tr>
            <td>Village</td>
            <td><%=rs.getString("village")%></td>
        </tr>
        <tr>
            <td>Post</td>
            <td><%=rs.getString("post")%></td>
        </tr>
        <tr>
            <td>District</td>
            <td><%=rs.getString("district")%></td>
        </tr>
        <tr>
            <td>State</td>
            <td><%=rs.getString("state")%></td>
        </tr>
        <tr>
            <td>Pin Code</td>
            <td><%=rs.getString("pincode")%></td>
        </tr>
        <tr>
            <td>Contact No</td>
            <td><%=rs.getString("contactno")%></td>

```

```

</tr>
<tr>
    <td>Aadhar No</td>
    <td><%=rs.getString("aadharno")%></td>
</tr>
<tr>
    <td>No of packets</td>
    <td><%=rs.getString("noofpacket")%></td>
</tr>
<tr>
    <td>Duration</td>
    <td><%=rs.getString("duration")%></td>
</tr>
<tr>
    <td>Rate</td>
    <td><%=rs.getString("rate")%></td>
</tr>
<tr>
    <td>Total Amount</td>
    <td><%=rs.getString("totalamt")%></td>
</tr>
<tr>
    <td>Advance Amount</td>
    <td><%=rs.getString("advanceamt")%></td>
</tr>
<tr>
    <td>Rest Amount</td>
    <td><%=rs.getString("restamt")%></td>
</tr>
<tr>
    <td>Booking Date</td>
    <td><%=rs.getString("bookingdate")%></td>
</tr>
</table>
<%
    }
    else
    {
%>
<h2 style="color:red;text-align:center;">Booking is not available</h2>
<% } %>

```

```

        </div>
    </div>
    <div class="row">
        <div class="col-sm-6" style="height:80px;background-
color:black;color:white;font-size:25px;text-align:center;line-height:80px;">
            Copyright &copy; to Farmer Merchant Integration
        </div>
        <div class="col-sm-6" style="height:80px;background-color:navy;color:white;font-
size:25px;text-align:center;line-height:80px;">
            Developed By:- Shivam Mahto
        </div>
    </div>
</div>
</body>
</html>
<% } %>

```

Changepassword.jsp

```

<%--
    Document   : FMI
    Created on : 30 dec, 2023, 10:10:49 AM
    Author    : Shivam Mahto
--%>
<%
    if(session.getAttribute("adminid")==null)
    {
        response.sendRedirect("../login.jsp");
    }
    else
    {
%>
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Farmer Merchant Integration</title>
        <link href="../css/bootstrap.css" rel="stylesheet"/>
        <script src="../js/bootstrap.bundle.js"></script>

```

```

</head>
<body>
  <script>
    function validate()
    {
      var op=document.getElementById("oldpassword");
      var np=document.getElementById("newpassword");
      var cp=document.getElementById("confirmpassword");
      if(op.value=="" || op.value==null)
      {
        alert('Please enter old password');
        op.focus();
      }
      else if(np.value=="" || np.value==null)
      {
        alert('Please enter new password');
        np.focus();
      }
      else if(cp.value=="" || cp.value==null)
      {
        alert('Please enter confirm password');
        cp.focus();
      }
      else if(np.value!=cp.value)
      {
        alert('Confirm password is not matched');
        cp.focus();
      }
      else
      {
        document.getElementById("frmchangepassword").submit();
      }
    }
  </script>
  <div class="container-fluid">
    <jsp:include page="header.jsp"/>
    <div class="row mt-2">
      <div class="col-sm-12" style="min-height: 600px;background-color: aliceblue;">
        <h2 style="text-align:center;color:blue;">Change Password</h2>
        <form id="frmchangepassword" onsubmit="event.preventDefault();validate();"
class="form-group" method="post" action="admincontroller.jsp">

```

```

<input type="hidden" name="page" value="changepassword"/>
<table class="table table-bordered" style="width:60%;margin:auto;">
  <tr>
    <td>Enter Old Password</td>
    <td>
      <input type="password" name="oldpassword" class="form-control"
id="oldpassword"/>
    </td>
  </tr>
  <tr>
    <td>Enter New Password</td>
    <td>
      <input type="password" name="newpassword" class="form-control"
id="newpassword"/>
    </td>
  </tr>
  <tr>
    <td>Confirm Password</td>
    <td>
      <input type="password" name="confirmpassword" class="form-
control" id="confirmpassword"/>
    </td>
  </tr>
  <tr>
    <td></td>
    <td>
      <button type="submit" class="btn btn-success">Change</button>
    </td>
  </tr>
</table>
</form>
</div>
<div class="row">
  <div class="col-sm-6" style="height:80px;background-
color:black;color:white;font-size:25px;text-align:center;line-height:80px;">
    Copyright &copy; to Farmer Merchant Integration
  </div>
  <div class="col-sm-6" style="height:80px;background-color:navy;color:white;font-
size:25px;text-align:center;line-height:80px;">
    Developed By:- Shivam Mahto
  </div>
</div>

```

```

        </div>
    </div>
</div>
</body>
</html>
<% } %>

```

AdminController.jsp

```

<% @page import="dbpack.DbManager"%>
<%
    if(request.getParameter("page").equals("changepassword"))
    {
        String userid=session.getAttribute("adminid").toString();
        String oldpassword=request.getParameter("oldpassword");
        String newpassword=request.getParameter("newpassword");
        DbManager dm=new DbManager();
        String query="update login set password='"+newpassword+" where userid='"+userid+"
and password='"+oldpassword+"";
        if(dm.insertUpdateDelete(query)==true)
        {
            out.print("<script>alert('Password is
changed');window.location.href='logout.jsp';</script>");
        }
        else
        {
            out.print("<script>alert('Oldpassword is not
matched');window.location.href='changepassword.jsp';</script>");
        }
    }
    else if(request.getParameter("page").equals("news"))
    {
        String newstext=request.getParameter("newstext");
        DbManager dm=new DbManager();
        String query="insert into news(newstext,posteddate) values('"+newstext+"',curdate())";
        if(dm.insertUpdateDelete(query)==true)
        {
            out.print("<script>alert('News is added');window.location.href='news.jsp';</script>");
        }
        else
        {

```

```

        out.print("<script>alert('News is not
added');window.location.href='news.jsp';</script>");
    }
}
else if(request.getParameter("page").equals("book"))
{
    String regid=request.getParameter("regid");
    String name=request.getParameter("name");
    String village=request.getParameter("village");
    String post=request.getParameter("post");
    String district=request.getParameter("district");
    String state=request.getParameter("state");
    String pincode=request.getParameter("pincode");
    String contactno=request.getParameter("contactno");
    String aadharno=request.getParameter("aadharno");
    int noofpacket=Integer.parseInt(request.getParameter("noofpacket"));
    int duration=Integer.parseInt(request.getParameter("duration"));
    int rate=Integer.parseInt(request.getParameter("rate"));
    int advanceamt=Integer.parseInt(request.getParameter("advanceamt"));
    int totalamt=noofpacket*duration*rate;
    int restamt=totalamt-advanceamt;
    DbManager dm=new DbManager();
    String query="insert into booking
values('"+regid+"','"+name+"','"+village+"','"+post+"','"+district+"','"+state+"','"+pincode+"','
"+contactno+"','"+aadharno+"','"+noofpacket+"','"+duration+"','"+rate+"','"+totalamt+"','"+ad
vanceamt+"','"+restamt+"',curdate())";
    if(dm.insertUpdateDelete(query)==true)
    {
        out.print("<script>alert('Booking is
done');window.location.href='booking.jsp';</script>");
    }
    else
    {
        out.print("<script>alert('Booking is not
done');window.location.href='booking.jsp';</script>");
    }
}
else if(request.getParameter("page").equals("payment"))
{
    String aadharno=request.getParameter("aadharno");
    int restamt=Integer.parseInt(request.getParameter("restamt"));

```



```

int payamt=Integer.parseInt(request.getParameter("payamt"));
restamt=restamt-payamt;
DbManager dm=new DbManager();
String query="update booking set restamt='"+restamt+" where
aadharo='"+aadharo+"'";
if(dm.insertUpdateDelete(query)==true)
{
    out.print("<script>alert('Payment is
done');window.location.href='closing.jsp';</script>");
}
else
{
    out.print("<script>alert('Payment is not
done');window.location.href='closing.jsp';</script>");
}
}
%>

```

FUTURE SCOPE OF PROJECT

Although Farmer Merchant Integration is a complete solution for cold storage automation, yet there are certain enhancements that can be done in future. Some of them are given below: -

- Transaction can be done by online mode using Payment Gateway API.
- In this solution there are only booking, stock maintenance and closing modules are available for farmer. In future, same modules can be developed for merchant also.
- Booking module can be available for farmer and merchant end.
- Daily, weekly, monthly, and yearly closing can be added.
- Android Application can also be developed for the portal.