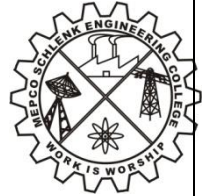




WEDDING CARD SALES SYSTEM

23IT454 - MINI PROJECT



A REPORT

Submitted by

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APRIL 2025

BONAFIDE CERTIFICATE

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ABSTRACT

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"Geetha Wedding Cards" is a user-friendly desktop application designed to modernize the process of selecting and purchasing wedding and invitation cards. Developed using Java Swing for the frontend and MySQL as the backend database, this application aims to provide a smooth and digital experience for both customers and administrators. The main objective of this project is to simplify the traditional wedding card selection process, which usually involves time-consuming visits to shops and limited choices. "Geetha Wedding Cards" brings this experience into a digital platform, making it easier for users to explore a wide variety of cards and for shopkeepers to manage their business efficiently. The application also applies core concepts of object-oriented programming and database management, ensuring both functionality and data security.

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CHAPTER 1

INTRODUCTION

1.1 AIM

To develop a user-friendly Java Swing application named **Geetha Wedding Cards** that allows users to view, customize, and purchase wedding invitation cards, and enables administrators to manage card data and monitor sales.

1.2 OBJECTIVE

- i. To provide an interactive platform for users to register, login, and explore various wedding card designs.
- ii. To categorize cards based on religion and style for easier browsing.
- iii. To implement secure purchase functionality with address and payment details.
- iv. To allow administrators to add, update, delete cards, and view monthly sales.
- v. To store and retrieve all data using a database.

1.3 PROBLEM DEFINITION

The conventional method of buying wedding cards involves visiting stores, browsing limited physical samples, and manually placing orders. This process is time-consuming and lacks personalization. Additionally, managing card inventory and tracking purchases is tiresome for shop owners. This project gives a better solution by using a computer application to make everything easier, faster, and better organized.

1.4 OBJECT ORIENTED PROGRAMMING CONCEPT

This project follows the core principles of **Object-Oriented Programming (OOP)** using **Java** in the **NetBeans IDE**, which provides a modular and reusable structure for building the application. The application is developed using **Java Swing** for GUI and applies OOP concepts as follows:

- **Encapsulation**

Each screen (like `LoginFrame`, `PurchasePage`, `AdminFrame`) is implemented as a separate class that encapsulates its own components, event listeners, and logic.

The database utility class `conn` encapsulates connection setup and access methods, keeping the rest of the code clean.

- **Inheritance**

All GUI classes such as `AdminFrame`, `LoginFrame`, etc., extend `JFrame`, which provides window behavior and GUI capabilities from the Swing library.

This allows code reuse and ensures a consistent structure across different screens.

- **Polymorphism**

Button actions and UI interactions use polymorphism through overridden `actionPerformed()` methods. Each button can have its own behavior despite using the same method name.

Listeners adapt dynamically depending on the button or event source clicked.

- **Abstraction**

The application separates GUI design from core logic. For example, methods like `loadSalesByMonthYear()` and `saveOrderToDatabase()` hide the database complexity from the user interface.

The `conn` class abstracts the internal details of JDBC setup, so other classes just call `conn.getConnection()` to work with the database.

1.5 DATABASE MANAGEMENT CONCEPT

The backend of the application uses MySQL. That includes:

i. Use of primary and foreign keys to define relationships.

Primary Keys uniquely identify each record in a table.

Foreign Keys establish relationships between tables, ensuring data consistency.

These relationships enforce referential integrity and reduce data redundancy.

ii. Stored procedures for fetching cards and cart data efficiently.

The system uses stored procedures in MySQL for optimized and reusable data access.

iii. Structured queries to perform create,read,update,delete operations on tables like users, cards, cart, and purchases.

iv. JDBC integration to connect Java code with the MySQL database.

JDBC handles:

- Connection management: Opening and closing connections using DriverManager.
- Query execution: Using PreparedStatement or CallableStatement for parameterized queries.
- Result processing: Fetching data using ResultSet.

JAR FILES NEEDED IN THIS PROJECT:

- mysql-connector-java.jar - JDBC driver to connect Java with MySQL database
- itextpdf-5.x.x.jar - Used to generate PDF bills/invoices from Java

CHAPTER 2

2.1 ER DIAGRAM

Entity:

An entity is any object or concept that can be stored in a database and has a distinct existence.

Attribute:

An attribute is a property or characteristic of an entity. These become the columns in a table.

ER Diagram (Entity-Relationship Diagram)

An ER Diagram is a visual representation of the data model. It shows:

Entities (usually in rectangles)

Attributes (ovals connected to entities)

Relationships (diamonds connecting entities)

ATTRIBUTES AND ENTITIES:

cards: card_id, name, type, price, image_path, descriptions, added_on

cart: cart_id, userid, card_id, name, price, quantity, total

orders: order_id, user_id, card_name, quantity, amount, country, state, address, payment_method, order_date, total_price

TABLE:

| | | |
|-------------|------|---------|
| User, Cart | Put | User id |
| User, order | Buys | User id |
| Cart, Card | Adds | Card id |

ER DIAGRAM:

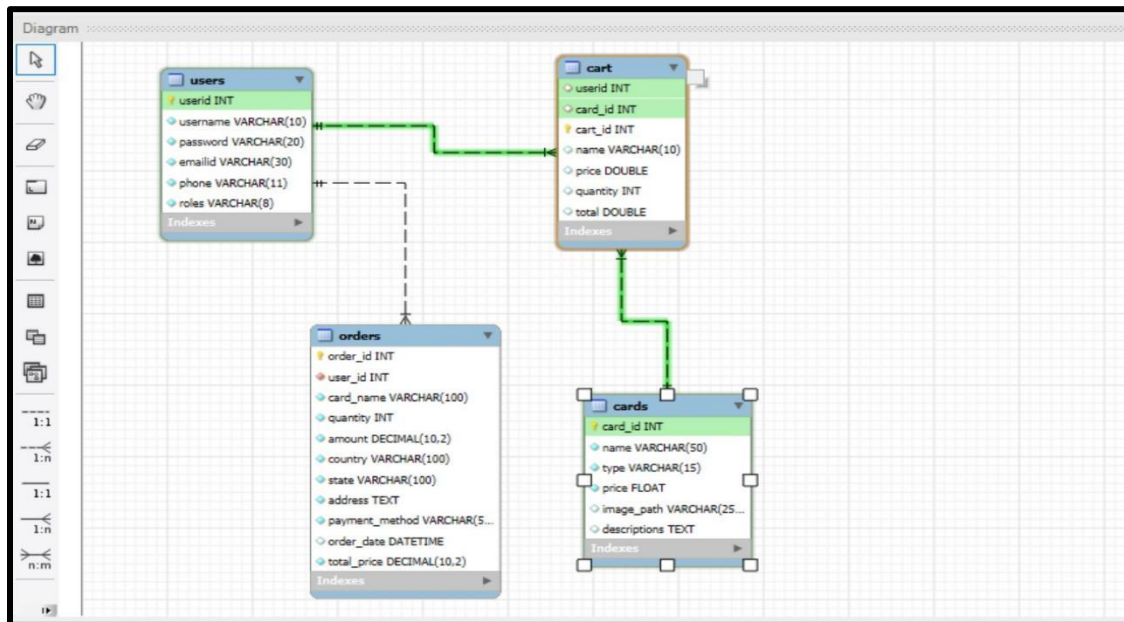


Fig 2.1.1

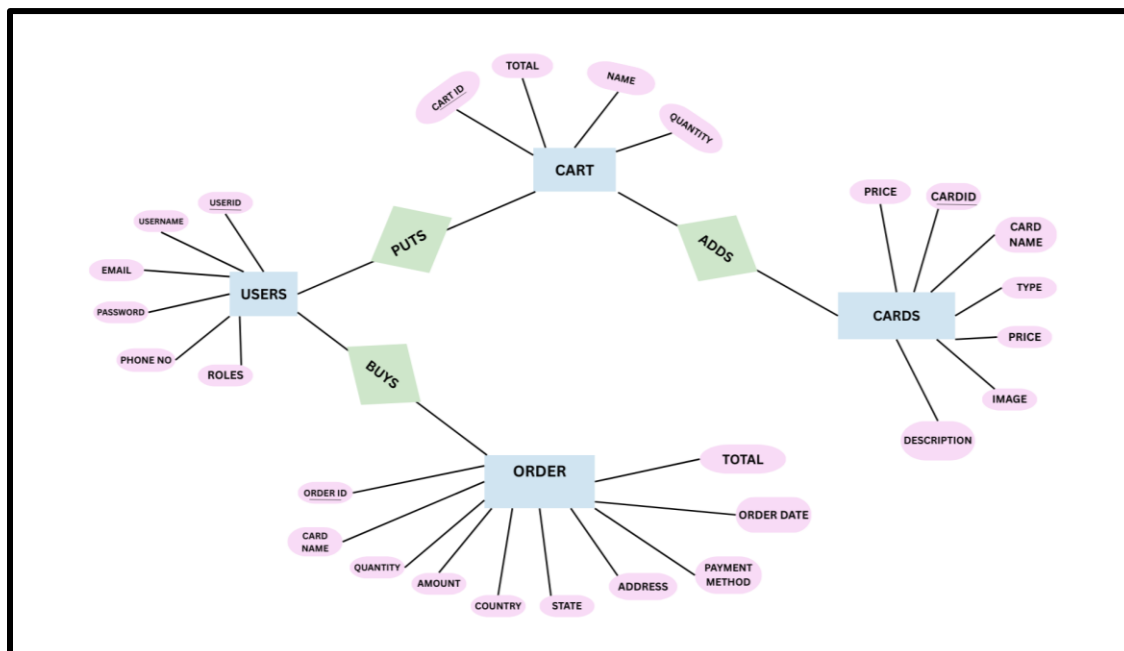
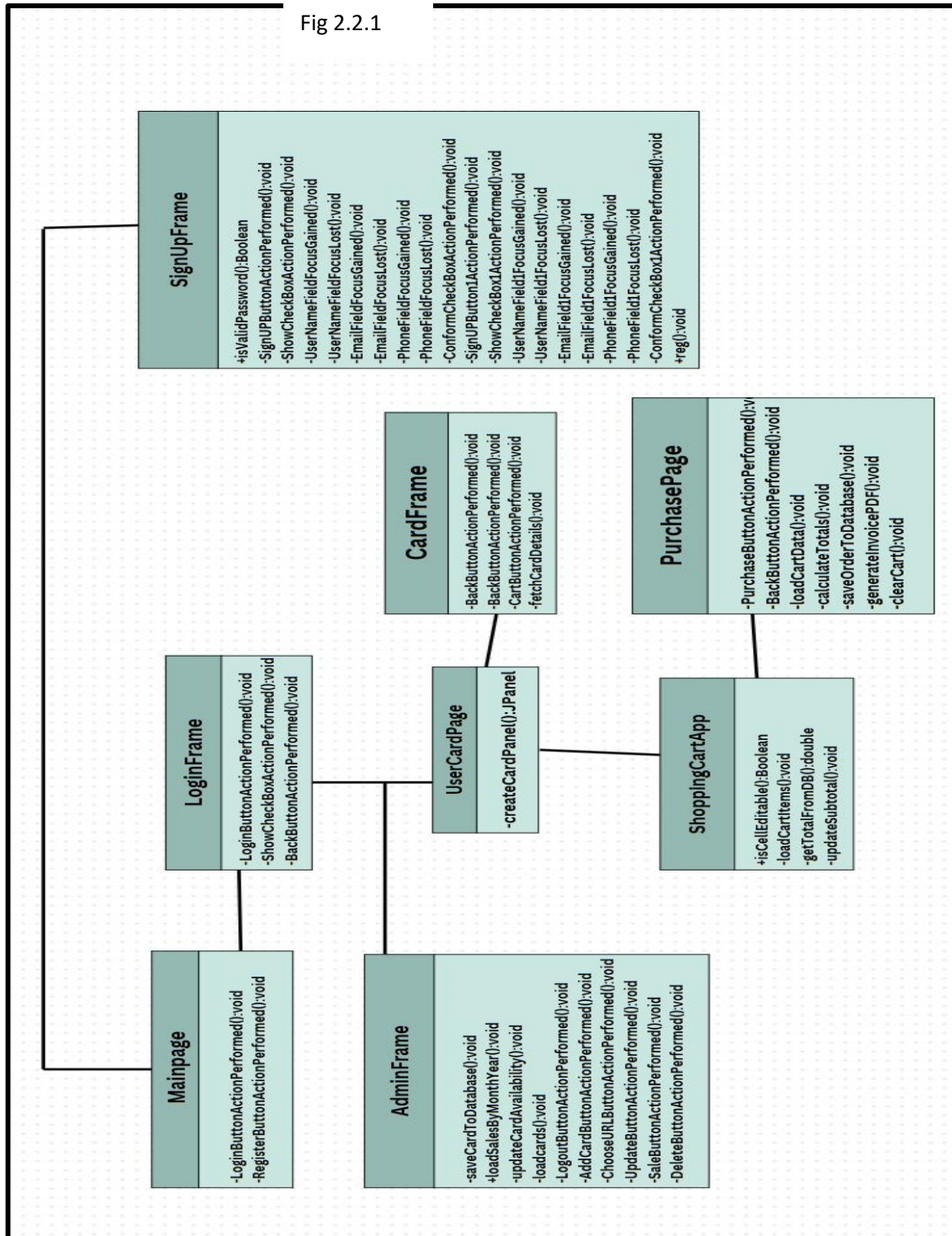


Fig 2.1.2

2.2 CLASS DIAGRAM

Fig 2.2.1



CHAPTER 3

IMPLEMENTATION METHODOLOGY

3.1 MODULES IDENTIFIED

- **Database Connection Module**-Connects Java application to MySQL database using JDBC.
- **Main Frame Module** - Entry point showing options for Login and Sign Up.
- **Login Module** - Allows existing users to log in securely.
- **SignUp Module** -New users can register by providing email, username, phone number, and password.
- **User Module** - Displays available wedding cards categorized by religion (All, Hindu, Muslim, Christian) Allows adding cards to the shopping cart.
- **Shopping Cart Module** - Shows selected cards with options to update quantity or proceed to purchase.
- **Purchase Module** - Collects delivery address, payment method, and completes the order.
- **Admin Module** -Admin can Add, Update, Delete cards.Admin can view monthly sales reports.
- **Image module**
- **Try catch exception**

3.2 MODULES DESCRIPTION

1 .GUI Components:

| Component | Purpose in our App |
|-----------|---|
| JFrame | Main window container for each screen (e.g., Login, Cart, Admin, PurchasePage). |
| JPanel | Sub-panel inside JFrame to group elements and manage layouts. |

| Component | Purpose in our App |
|---------------------------|---|
| JLabel | Displays text like labels, headings, or instructions. Also used to display images. |
| TextField | Input field for users to type text (e.g., address, card name, price). |
| PasswordField | Special version of TextField used for entering passwords securely. |
| Button | Interactive button for actions like “Login”, “Add to Cart”, “Purchase”. |
| ComboBox | Drop-down list to select options (e.g., state, country, payment method, card type). |
| JTable | Used in Shopping Cart and Admin panel to show card list, orders, and editable quantities. |
| DefaultTableModel | Table model that allows dynamic updates to the JTable’s data. |
| JScrollPane | Enables scrolling when content (e.g. tables, text) exceeds visible area. |
| ImageIcon | Displays card images (preview or thumbnail). |
| FileChooser | Lets admin select an image file to upload for a card. |
| OptionPane | Shows pop-up dialog boxes for messages, confirmations, or errors. |
| FileNameExtensionFilter | Restricts file selection in FileChooser to specific formats like .jpg, .png. |
| BorderLayout / GridLayout | Used to arrange GUI components in structured layouts (top, bottom, grid, etc). |
| JTabbedPane | Used in UserCardPage to switch between categories (e.g., Hindu, Muslim, Christian). |
| JTextArea | Multi-line text box, used to show invoice in showBillOnScreen() before PDF download. |

2. Database Connection Module-Connects Java application to MySQL database using JDBC.

| | |
|-------------------|---|
| Connection | To create and manage database connections |
| DriverManager | To get a Connection to database |
| PreparedStatement | To execute SQL queries safely |
| ResultSet | To store and read query results |
| SQLException | To handle database errors |

Fig 3.2.1

SYNTAX:

```
public void connectToDatabase() {  
    try {  
        Class.forName("com.mysql.cj.jdbc.Driver");  
        Connection conn = DriverManager.getConnection(url, user, password);  
        JOptionPane.showMessageDialog(null, "Database connected successfully!");  
    }  
}
```

3. Main Frame (Homepage)

Description:

The first page the user sees when the app starts. It offers **Login** and **Sign Up** options.

Explanation:

Clicking Login → moves to Login Frame.

Clicking Sign Up → moves to SignUp Frame.

4. Login Frame

Description:

Existing users can log into the application using their username and password.

Explanation:

If credentials are correct → moves to UserCardPage.

If wrong → shows error message. Back button available to return to Main Frame.

5. SignUp Frame

Description:

New users can create an account by entering their email, username, phone number, and password.

Explanation:

Password must have at least 3 digits, 1 uppercase, and 1 lowercase letter.

After successful registration → user is redirected to Login Frame.

Validation :

The password should be atleast 6 characters.

The email field gets accepted only if it contains a uppercase , lowercase ,a digits and a special character.

All the fields are required.

6.UserCardPage (User Home)Description:

Users can browse wedding cards .

Explanation:

Clicking a card → opens that card's details in CardFrame.

CART button → view shopping cart (ShoppingCartApp).

LOGOUT button → logout to Main Frame.

Each card = 1 button.

Buttons show on the page . Each button can be clicked to see card details.

Why we used HTML?

```
JButton cardButton = new JButton("<html><center>" + cardName + "<br>Price: " + cardPrice +  
"</center></html>");
```

In Java Swing , normal buttons (JButton) can only show simple, plain text.

For Multiline text and Formatted text (like bold, center, color)

| | |
|---|---|
| <code><html> ... </html></code> | Tells Swing to use HTML formatting inside the button. |
| <code><center> ... </center></code> | Centers the text horizontally inside the button. |
| <code> </code> | Inserts a line break (moves to next line). |

How Buttons are aligned automatically?

```
cardPanel.add(cardButton);
```

```
JPanel cardPanel = new JPanel(new FlowLayout(FlowLayout.LEFT, 20, 20));
```

FlowLayout.LEFT → aligns all buttons **starting from the left**.

20, 20 → gap of 20 pixels horizontally and vertically between buttons.

If no space, buttons start new row.

Procedure Used:

```
CallableStatement cs = conn.prepareCall("{CALL GetCardsByType(?)}");
```

```
cs.setString(1, typeFilter);
```

GetCardsByType(type) – Fetches cards based on type (All, Hindu, Muslim, Christian).

FLOWCHART:

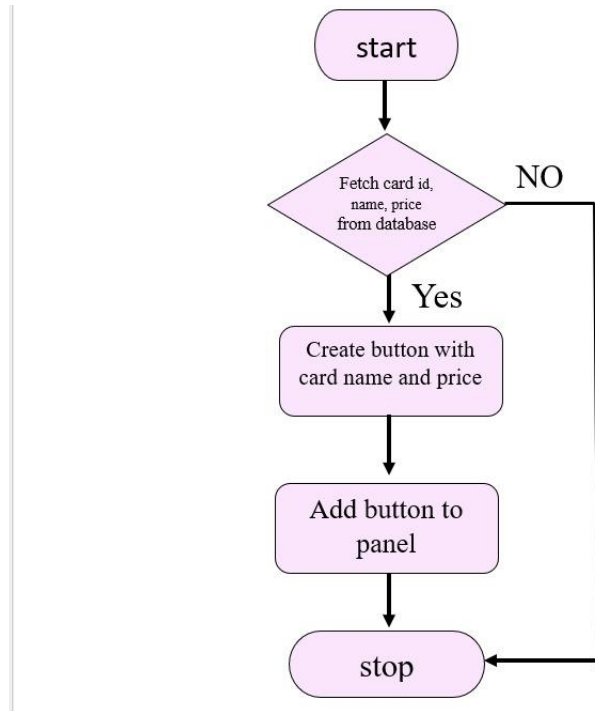


Fig 3.2.2

7. CardFrame (Card Details Page)

Description:

Displays full details of a selected card (name, price, description, image).

Explanation:

CART button → adds card to Shopping Cart.

BACK button → goes back to UserCardPage.

8.ShoppingCartApp (Cart Page)

Description:

Shows the list of cards added by the user with their quantities and total prices. Users can edit quantity directly in the cart.

PURCHASE button → proceeds to PurchasePage.

BACK button → goes back to UserCardPage.

ALGORITHM :

Load user's cart items from database.

Show items in table.

Allow quantity changes.

Show subtotal.

CODE EXPLANATION:

- This listens for any change made to the cart table (JTable).
- Especially if user edits a cell ,like changing the quantity.
 - `e.getType() == UPDATE`: -Checks only if something was edited.
 - `e.getColumn() == 3`: -Checks only if Quantity column was changed (Column 3).
 - Finds which row the user edited
 - Reads the new quantity entered by the user from the table. Converts it from String → Integer.
 - Reads the price of the card from the same row, Column 2 (Price column).Converts it from String → Double.
 - Sets the new total into Column 4 (Total column) for that row.
 - Recalculates the overall subtotal (sum of all rows' totals).
 - Updates the Subtotal label at the bottom.

Procedure Used Here:

```
CallableStatement cs = conn.prepareCall("{call GetCartItemsByUserId(?)}");
```

```
cs.setInt(1, userId);
```

The procedure we used here to get the cart items by the given user id.

FLOWCHART:

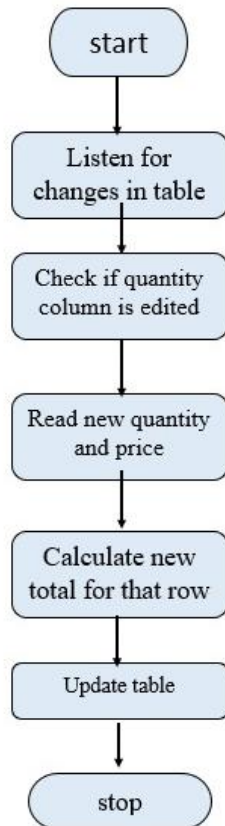


Fig 3.2.3

removeSelectedRow()

Purpose: Removes the selected item from the cart (both from the table and the database).

How it works:

- **Check Selection**

Gets the selected row index (table.getSelectedRow()).

If no row is selected, does nothing.

- **Database Deletion:**

Extracts the card name from the selected row.

Executes a DELETE **query** (DELETE FROM cart WHERE userId = ? AND name = ?).

- **Update UI:**

Removes the row from the table (model.removeRow(selected)).

Calls calculateTotals() to refresh the subtotal

Functions used here:

Calls calculateTotals() - calculates the total and returns it.

9. PurchasePage

Description: After the user is done adding cards into the cart, they go to the Purchase Page.

The PurchasePage is the final step of the card ordering process where the user: Reviews cart item, Enters delivery address and payment method, Places the order, Views the bill, and sends it in gmail.

loadCartData()

Calls stored procedure **GetCartItemsByUserId(?)** to load cart items for the current user

Here we used procedure to get the cart items by user

Reads: name of the card , price and quantity , image_path to show icons

Calculates total for each item (price × quantity)

Adds all rows to the JTable

calculateTotals()

Sums up all item totals to get **subtotal**

Adds **10% tax** and **₹50 shipping**

Displays values in subtotal, tax, and total labels

Invoice Display and Email

- Builds a receipt using data from the CardTable.
- Shows it in a new JFrame with a JTextArea.
- Prompts the user: “Send invoice to email?”
- If yes, gets email from DB and calls sendInvoiceEmail().

sendInvoiceEmail()

- Sends the invoice using JavaMail API.
- Authenticates using Gmail with an App Password.
- Sends a plain text email with the invoice.
- Session.getInstance(...): Creates a mail session using properties (props) and an authenticator.
- props contains SMTP settings (host, port, TLS, etc.).
- Authenticator: Provides Gmail email and app password (fromEmail, password) when needed.
- This ensures the SMTP server (Gmail) knows it's a legitimate sender.

clearCart()

- Deletes all entries in the cart for that user after successful purchase
- Refreshes the cart table and total labels

10.Admin Page It has different tabs for the Admin to:

- Add new cards.
- Update existing cards.
- Delete cards.
- View monthly sales

1. Add new cards:

The admin can upload new cards in the add panel

2. Update New Cards:

Why we used switch statement for update?

In your GUI, the **ComboBox** shows **user-friendly names** like:

"Card Name" "Card Price", "Card Type", etc.

But in the database, the column names are name, price, type, etc.

The switch statement is used to map from UI label → database column.

3. Delete Card:

The values are viewed in a table. We can delete the cards using card id.

4. View sales

The sales can be viewed in a JTable.

it helps the admin check: How many cards were sold, The quantity, Total revenue, And the date of each order.

11. IMAGE MODULE:

Gets the image file path from the database result set

ImageIcon – object from the image file at the specified

Image – object from the icon

Scales it to 180×120 pixels using smooth scaling algorithm (Image.SCALE_SMOOTH)

This ensures consistent display size regardless of original image dimensions

The ImageIcon constructor can accept:

File paths (as in this case)

URLs

Byte arrays

Image objects

Scaling options (Image.SCALE_* constants)

- SCALE_SMOOTH: Highest quality (slower)
- SCALE_FAST: Lower quality (faster)
- SCALE_DEFAULT: Platform-dependent default

12.try-catch block

Why we need try-catch?

- Use try-catch to **protect** your app from crashes.
- Place risky code (like DB access or file writing) inside try.
- Use catch to show error messages or log details.

Two types of exception:

1. Checked Exceptions - Handled during compile time. Java forces you to catch or declare them
2. Unchecked Exceptions - Occur during runtime. Not checked by compiler, but can crash the program.

| Code Area | Likely Exception Type | Type |
|----------------------------------|---|-----------|
| DriverManager.getConnection(...) | SQLException | Checked |
| Class.forName(...) | ClassNotFoundException | Checked |
| Integer.parseInt(...) | NumberFormatException | Unchecked |
| image.getScaledInstance(...) | NullPointerException (if image is null) | Unchecked |

13 . IMPORT STATEMENTS

| Import Statement | Purpose / Description |
|---|---|
| <code>import java.awt.Image;</code> | Handles image processing and scaling in the GUI. |
| <code>import java.io.File;</code> | Used to manage file paths and file selection. |
| <code>import java.io.FileOutputStream;</code> | Used to write data (PDF) into files. |
| <code>import java.sql.Connection;</code> | Establishes a connection with a SQL database. |
| <code>import java.sql.DriverManager;</code> | Loads JDBC driver and creates database connections. |
| <code>import java.sql.PreparedStatement;</code> | Executes parameterized SQL queries (safe from injection). |
| <code>import java.sql.ResultSet;</code> | Retrieves results from SQL SELECT queries. |
| <code>import java.sql.SQLException;</code> | Handles SQL-related errors and exceptions. |
| <code>import java.sql.CallableStatement;</code> | Calls stored procedures from Java. |
| <code>import java.util.Date;</code> | Represents and manages date/time values. |
| <code>import java.util.logging.Level;</code> | Defines logging levels (e.g. INFO, ERROR). |
| <code>import java.util.logging.Logger;</code> | Used for logging error and debug messages. |
| <code>import java.util.*;</code> | Imports all classes from java.util (e.g., ArrayList, Date). |
| <code>import javax.swing.*;</code> | Imports all Swing components (JFrame, JButton, etc.). |

13 . IMPORT STATEMENTS

| Import Statement | Purpose / Description |
|--|--|
| <code>import javax.swing.ImageIcon;</code> | Loads and handles image icons in the GUI. |
| <code>import javax.swing.JLabel;</code> | Displays static text or images in the GUI. |
| <code>import javax.swing.JTable;</code> | Displays tables in the GUI. |
| <code>import javax.swing.filechooser.FileNameExtensionFilter;</code> | Filters file types in JFileChooser (e.g. .jpg, .png). |
| <code>import javax.swing.table.DefaultTableModel;</code> | Used to manipulate data in JTable easily. |
| <code>import javax.swing.event.TableModelEvent;</code> | Detects changes (e.g. quantity update) in table cells. |
| <code>import java.awt.BorderLayout;</code> | Lays out components in top, bottom, center, etc. |
| <code>import java.awt.Color;</code> | Sets or changes color in GUI components. |
| <code>import javax.swing.SwingConstants;</code> | Aligns text or components (e.g. center). |
| <code>import com.itextpdf.text.Chunk;</code> | Adds blank lines or spacers in PDF layout. |
| <code>import com.itextpdf.text.Document;</code> | Creates and represents a PDF document. |
| <code>import com.itextpdf.text.Font;</code> | Sets font styles for PDF text. |
| <code>import com.itextpdf.text.Paragraph;</code> | Adds paragraph blocks in PDF. |
| <code>import com.itextpdf.text.pdf.PdfPTable;</code> | Creates tables inside PDF documents. |
| <code>import com.itextpdf.text.pdf.PdfWriter;</code> | Writes and saves the final PDF to a file. |

CHAPTER 4

PROGRAM

4.1 DBMS:

CREATING A DATABASE :

```
create database project;
```

```
use project;
```

CREATING TABLE:

USERS:

```
create table users (  
  
    userid int primary key auto_increment,  
  
    username varchar(10) not null,  
  
    password varchar(20) not null,  
  
    emailid varchar(30) not null,  
  
    phone varchar(11) not null ,  
  
    roles varchar(8) not null );
```

INSERTING ADMIN DEATAILS INTO TABLE

```
insert            into            users            (username,password,emailid,phone,roles)  
values('admin','admin','admin@gmail','6379520078','admin');
```

CREATING TABLE:

CARDS:

CREATE TABLE cards (

card_id INT AUTO_INCREMENT PRIMARY KEY,

name VARCHAR(50) NOT NULL,

type VARCHAR(15) NOT NULL,

price FLOAT NOT NULL,

image_path VARCHAR(255),

descriptions VARCHAR(255)

);

ALTER TABLE cards MODIFY COLUMN name VARCHAR(100);

ALTER TABLE cards MODIFY COLUMN descriptions TEXT;

ALTER TABLE cards ADD COLUMN added_on TIMESTAMP DEFAULT
CURRENT_TIMESTAMP;

CREATING TABLE CART:

CREATE TABLE cart (

userid int ,

card_id int,

cart_id INT PRIMARY KEY AUTO_INCREMENT,

name VARCHAR(10),

price DOUBLE,

quantity INT,

total double,

foreign key (userid) references users(userid),

foreign key (card_id) references cards(card_id)

CREATE TABLE ORDERS:

CREATE TABLE orders (

order_id INT PRIMARY KEY AUTO_INCREMENT,

user_id INT NOT NULL,

card_name VARCHAR(100) NOT NULL,

quantity INT NOT NULL,

amount DECIMAL(10,2) NOT NULL,

country VARCHAR(100) NOT NULL,

state VARCHAR(100) NOT NULL,

address TEXT NOT NULL,

payment_method VARCHAR(50) NOT NULL,

order_date DATETIME DEFAULT CURRENT_TIMESTAMP,

total_price DECIMAL(10,2) NOT NULL,

FOREIGN KEY (user_id) REFERENCES users(userid)

);

PROCEDURES:

1)TO GET THE USERID FOR CART ITEMS:

CREATE PROCEDURE GetCartItemsByUserId(IN uid INT)

BEGIN

SELECT * FROM cart WHERE userid = uid;

END //

DELIMITER ;

2.TO GET CARD TYPES:

```
CREATE PROCEDURE GetCardsByType(IN typeFilter VARCHAR(50))
```

```
BEGIN
```

```
    IF typeFilter = 'All' THEN
```

```
        SELECT * FROM cards ORDER BY added_on DESC;
```

```
    ELSE
```

```
        SELECT * FROM cards WHERE type = typeFilter ORDER BY added_on DESC;
```

```
    END IF;
```

```
END $$
```

FUNCTIONS:

TO CALCULATE THE TOTAL

```
CREATE FUNCTION calculate_total(price DOUBLE, quantity INT)
```

```
RETURNS DOUBLE
```

```
BEGIN
```

```
    RETURN price * quantity;
```

```
END //
```

4.2 JAVA:

1)MAINFRAME:

```
public class MainFrame extends javax.swing.JFrame {

    public MainFrame() {

        initComponents(); }

    private void LoginButtonActionPerformed(java.awt.event.ActionEvent evt) {

        LoginFrame l = new LoginFrame();

        l.show();

        dispose();

    }

    private void SignUpButtonActionPerformed(java.awt.event.ActionEvent evt) {

        SignUpFrame s = new SignUpFrame();

        s.show();

        dispose();

    }

    public static void main(String args[]) {

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                new MainFrame().setVisible(true);

            }

        });

    }

}
```

2LOGIN FRAME

```
public class LoginFrame extends javax.swing.JFrame {

    LoginForm log = new LoginForm();

    public LoginFrame() {

        initComponents();

        log.connectToDatabase();

    }

    private void LoginButtonActionPerformed(java.awt.event.ActionEvent evt) {

        if(UsernameField.getText().equals("")){

            JOptionPane.showMessageDialog(null, "Please fill out username");

        }

        else if(PasswordField.getText().equals("")){

            JOptionPane.showMessageDialog(null,"Please fill out password");

        }

        else{

            log.Login();

            dispose();

        } }

    private void ShowCheckBoxActionPerformed(java.awt.event.ActionEvent evt) {

        if(ShowCheckBox.isSelected()){

            PasswordField.setEchoChar((char) 0);    }

        else{

            PasswordField.setEchoChar('*');

        } }

}
```

```

private void BackButtonActionPerformed(java.awt.event.ActionEvent evt) {

    this.dispose();

    new MainFrame().setVisible(true);
}

public class LoginForm{

    //CONNECTION CODE

    public void Login(){

        String username = UsernameField.getText();

        String password = new String>PasswordField.getPassword());

        try{

            String query = "select * from users where username = ? and password = ?";

            //prepareStatement pt=conn.prepareStatement(query);

            PreparedStatement pt = conn.prepareStatement(query);

            pt.setString(1,username);

            pt.setString(2,password);

            ResultSet rs = pt.executeQuery();

            if(rs.next()){

                int userid = rs.getInt("userid");

                Session.currentUserId = userid;

                JOptionPane.showMessageDialog(null, "login successfully!");

                if(username.equalsIgnoreCase("Admin")){

                    new AdminFrame().setVisible(true);

                }

            }

            else{

```

```

        new UserCardPage().setVisible(true);

    } }else{

        JOptionPane.showMessageDialog(null, "invalid");

    }

}

catch(Exception e){

    JOptionPane.showMessageDialog(null, "Login failed!\n" + e.getMessage());

    e.printStackTrace()

}}

public static void main(String args[]) {

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {

            new LoginFrame().setVisible(true);

        } });

}

public class Session {

    public static int currentUserId;

}

```

3. REGISTER FRAME

```

public class SignUpFrame extends javax.swing.JFrame {

    public SignUpFrame() {

        initComponents();

    }

    public static boolean isValidPassword(String password) {

        if (password == null || password.length() < 6) {

            return false; }

    }

}

```

```

boolean hasUppercase = false;

boolean hasLowercase = false;

int digitCount = 0;

for (char c : password.toCharArray()) {

    if (Character.isDigit(c)) {

        digitCount++;

    } else if (Character.isUpperCase(c)) {

        hasUppercase = true;

    } else if (Character.isLowerCase(c)) {

        hasLowercase = true;

    } } return digitCount >= 3 && hasUppercase && hasLowercase;

}

private void SignUPButtonActionPerformed(java.awt.event.ActionEvent evt) {

    String username = UserNameField.getText();

    String email = EmailField.getText();

    String password;

    password = new String(PasswordField.getPassword());

    if (email.isEmpty() || username.isEmpty() || password.isEmpty()) {

        JOptionPane.showMessageDialog(this, "All fields are required!", "Error",
JOptionPane.ERROR_MESSAGE);

    } else if (!email.matches("^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\\.[a-z]{2,6}$")) {

        JOptionPane.showMessageDialog(this, "Invalid Email Address", "Error",
JOptionPane.ERROR_MESSAGE);

    } else if (!isValidPassword(password)) {

        JOptionPane.showMessageDialog(this, "Requirement:Atleast 6 characters,1 Uppercase,1
Lowercase", "Error", JOptionPane.ERROR_MESSAGE);

```

```

        } else{ s.reg();}

JOptionPane.showMessageDialog(this, "Registration Successful!", "Success",
JOptionPane.INFORMATION_MESSAGE);

MainFrame m = new MainFrame();

m.show();

dispose();
}

private void ShowCheckBoxActionPerformed(java.awt.event.ActionEvent evt) {

ShowCheckBox.setBackground(SignUpPanel.getBackground());

if(ShowCheckBox.isSelected()){

    PasswordField.setEchoChar((char) 0); //show password    }

else{

    PasswordField.setEchoChar('*');//Hide Password}}

private void UserNameFieldFocusGained(java.awt.event.FocusEvent evt) {

    if(UserNameField.getText().equals("Enter User Name")){

        UserNameField.setText("");

        UserNameField.setForeground(Color.BLACK);    }

}

private void UserNameFieldFocusLost(java.awt.event.FocusEvent evt) {

    if(UserNameField.getText().isEmpty()){

        UserNameField.setText("Enter User Name");

        UserNameField.setForeground(Color.GRAY);

    }}

private void EmailFieldFocusGained(java.awt.event.FocusEvent evt) {

```

```

        if(EmailField.getText().equals("name@gmail.com")){

            EmailField.setText("");

            EmailField.setForeground(Color.BLACK);

        }
    }

    private void EmailFieldFocusLost(java.awt.event.FocusEvent evt) {

        if(EmailField.getText().isEmpty()){

            EmailField.setText("name@gmail.com");

            EmailField.setForeground(Color.GRAY);

        } }

    private void PhoneFieldFocusGained(java.awt.event.FocusEvent evt) {

        if(PhoneField.getText().trim().equals("Enter Phone Number")){

            PhoneField.setText("");

            PhoneField.setForeground(Color.BLACK);

        } }

    private void PhoneFieldFocusLost(java.awt.event.FocusEvent evt) {

        if(PhoneField.getText().trim().isEmpty()){

            PhoneField.setText("Enter Phone Number");

            PhoneField.setForeground(Color.GRAY);

        } }

    private void ConformCheckBoxActionPerformed(java.awt.event.ActionEvent evt) {

        if(ConformCheckBox.isSelected()){

            ConformPasswordField.setEchoChar((char) 0); //show password

        } else{

```



```

        ConformPasswordField.setEchoChar('*');//Hide Password

    } }

private void SignUpButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    String username = UserNameField.getText();

    String email = EmailField.getText();

    String password;

    password = new String(PasswordField.getPassword());

    if (email.isEmpty() || username.isEmpty() || password.isEmpty()) {

        JOptionPane.showMessageDialog(this, "All fields are required!", "Error",
JOptionPane.ERROR_MESSAGE)

    }

    else if (!email.matches("^([a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\\.[a-z]{2,6}$")) {

        JOptionPane.showMessageDialog(this, "Invalid Email Address", "Error",
JOptionPane.ERROR_MESSAGE);

    }    else if (!isValidPassword(password)) {

        JOptionPane.showMessageDialog(this, "Requirement:Atleast 6 characters,1 Uppercase,1
Lowercase", "Error", JOptionPane.ERROR_MESSAGE);

        //return;

    }    else{

        s.reg();

    }

}

private void ShowCheckBox1ActionPerformed(java.awt.event.ActionEvent evt) {

    ShowCheckBox.setBackground(SignUpPanel.getBackground());

    if(ShowCheckBox.isSelected()){

        PasswordField.setEchoChar((char) 0); //show password

```

```

    }else{ PasswordField.setEchoChar('*');//Hide Password
    } }

private void UserNameField1FocusGained(java.awt.event.FocusEvent evt) {
    if(UserNameField.getText().equals("Enter User Name")){
        UserNameField.setText("");
        UserNameField.setForeground(Color.BLACK);} }
private void UserNameField1FocusLost(java.awt.event.FocusEvent evt) {
    if(UserNameField.getText().isEmpty()){
        UserNameField.setText("Enter User Name");
        UserNameField.setForeground(Color.GRAY);
    }
}

private void EmailField1FocusGained(java.awt.event.FocusEvent evt) {
    if(EmailField.getText().equals("name@gmail.com")){
        EmailField.setText("");
        EmailField.setForeground(Color.BLACK);
    }
}

private void EmailField1FocusLost(java.awt.event.FocusEvent evt) {
    if(EmailField.getText().isEmpty()){
        EmailField.setText("name@gmail.com");
        EmailField.setForeground(Color.GRAY);
    } }

```

```

private void PhoneField1FocusGained(java.awt.event.FocusEvent evt) {

    // TODO add your handling code here:

    if(PhoneField.getText().trim().equals("Enter Phone Number")){

        PhoneField.setText("");

        PhoneField.setForeground(Color.BLACK);

    } }

private void PhoneField1FocusLost(java.awt.event.FocusEvent evt) {

    if(PhoneField.getText().trim().isEmpty()){

        PhoneField.setText("Enter Phone Number");

        PhoneField.setForeground(Color.GRAY);

    } }

private void ConformCheckBox1ActionPerformed(java.awt.event.ActionEvent evt) {

    if(ConformCheckBox.isSelected()){

        ConformPasswordField.setEchoChar((char) 0);  }

    else{

        ConformPasswordField.setEchoChar('*');

    } }

public class register{

    private Connection conn ;

    public register(){

        connectToDatabase();}

public void reg(){

    String username=UserNameField.getText();

    String gmail=EmailField.getText();

```

```

String phnno=PhoneField.getText();

String password=new String(PasswordField.getPassword());

String role="customer";

try{

    String query="insert into users(username,password,emailid,phone,roles)values(?,?,?,?,?)";

    PreparedStatement pt = conn.prepareStatement(query);

    pt.setString(1,username);

    pt.setString(2,password);

    pt.setString(3,gmail);

    pt.setString(4,phnno);

    pt.setString(5,role);

    pt.executeUpdate();

}

catch(Exception e){

    JOptionPane.showMessageDialog(null, "Registration failed!\n" + e.getMessage());

    e.printStackTrace();}

}}

public static void main(String args[]) {

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {

            new SignUpFrame().setVisible(true)    });

    }

}

```

4. DISPLAY CARDS:

```
import Website.LoginFrame.Session;
```

```

import javax.swing.*;

import java.awt.*;

import java.sql.*;

public class UserCardPage extends JFrame {

    private Connection conn;

    private JTabbedPane tabbedPane;

    public UserCardPage() {

        setSize(1280, 910);

        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        setLocationRelativeTo(null);

        JPanel topPanel = new JPanel(new BorderLayout());

        topPanel.setBackground(Color.WHITE);

        topPanel.setBorder(BorderFactory.createEmptyBorder(10, 20, 10, 20));

        JLabel titleLabel = new JLabel("Geetha Cards");

        titleLabel.setForeground(new Color(0, 0, 128));

        titleLabel.setFont(new Font("Edwardian Script ITC", Font.BOLD, 48));

        topPanel.add(titleLabel, BorderLayout.WEST);

        JPanel rightButtonsWrapper = new JPanel();

        rightButtonsWrapper.setLayout(new BoxLayout(rightButtonsWrapper, BoxLayout.Y_AXIS));

        rightButtonsWrapper.setBackground(Color.WHITE);

        rightButtonsWrapper.setAlignmentY(Component.CENTER_ALIGNMENT);

        JPanel rightButtons = new JPanel(new FlowLayout(FlowLayout.RIGHT, 10, 0));

        rightButtons.setBackground(Color.WHITE);

        JButton cartButton = new JButton("CART");

```

```

cartButton.setFont(new Font("Segoe UI Black", Font.PLAIN, 18));

cartButton.setBorder(null);

cartButton.addActionListener(e -> {

    dispose();

    new ShoppingCartApp(Session.currentUserId).setVisible(true);

});

rightButtons.add(cartButton);

JButton logoutButton = new JButton("LOGOUT");

logoutButton.setFont(new Font("Segoe UI Black", Font.PLAIN, 18));

logoutButton.setBorder(null);

logoutButton.addActionListener(e -> {

    dispose();

    new LoginFrame().setVisible(true);

});

rightButtons.add(logoutButton);

rightButtonsWrapper.add(Box.createVerticalGlue());

rightButtonsWrapper.add(rightButtons);

rightButtonsWrapper.add(Box.createVerticalGlue());

topPanel.add(rightButtonsWrapper, BorderLayout.EAST);

tabbedPane = new JTabbedPane();

tabbedPane.setBackground(Color.WHITE);

connectDatabase();

tabbedPane.addTab("All Cards", createCardPanel("All"));

tabbedPane.addTab("Hindu Cards", createCardPanel("Hindu"));

```

```

        tabbedPane.addTab("Muslim Cards", createCardPanel("Muslim"));

        tabbedPane.addTab("Christian Cards", createCardPanel("Christian"));

        setLayout(new BorderLayout());

        add(topPanel, BorderLayout.NORTH);

        add(tabbedPane, BorderLayout.CENTER);
    }

    private JPanel createCardPanel(String typeFilter) {

        JPanel cardPanel = new JPanel(new FlowLayout(FlowLayout.LEFT, 20, 20));

        cardPanel.setBackground(Color.WHITE);

        try {

            CallableStatement cs = conn.prepareCall("{CALL GetCardsByType(?)}");

            cs.setString(1, typeFilter);

            ResultSet rs = cs.executeQuery();

            while (rs.next()) {

                int cardId = rs.getInt("card_id");

                String cardName = rs.getString("name");

                float cardPrice = rs.getFloat("price");

                JButton cardButton = new JButton("<html><center>" + cardName + "<br>Price: " + cardPrice
+ "</center></html>");

                cardButton.setPreferredSize(new Dimension(200, 200));

                cardButton.setBackground(Color.LIGHT_GRAY);

                String imagePath = rs.getString("image_path");

                if (imagePath != null && !imagePath.isEmpty()) {

                    ImageIcon icon = new ImageIcon(imagePath);

                    Image img = icon.getImage().getScaledInstance(180, 120, Image.SCALE_SMOOTH);

```

```

        cardButton.setIcon(new ImageIcon(img));

        cardButton.setHorizontalTextPosition(SwingConstants.CENTER);

        cardButton.setVerticalTextPosition(SwingConstants.BOTTOM);

    }

    cardButton.addActionListener(e -> {

        dispose();

        new CardFrame(cardId).setVisible(true);

    });

    cardPanel.add(cardButton);

}

} catch (SQLException e) {

    JOptionPane.showMessageDialog(this, "Error loading cards: " + e.getMessage());

}

return cardPanel;

}

public static void main(String[] args) {

    SwingUtilities.invokeLater(() -> new UserCardPage().setVisible(true));

}

}

```

5. CARD DISPLAY

```

public class CardFrame extends javax.swing.JFrame {

    int id;

    public CardFrame(int id) {

```



```

initComponents();

this.id = id;

fetchCardDetails(id);
}

private void BackButtonActionPerformed(java.awt.event.ActionEvent evt) {

    this.dispose();

    new UserCardPage().setVisible(true);
}

private void CartButtonActionPerformed(java.awt.event.ActionEvent evt) {

    try {

        // Database connection

        int userid = Session.currentUserId;

        String name = NameLabel.getText();

        String cardName = name.replace("Name: ", "").trim();

        System.out.println("Card Name: " + cardName);

        System.out.println("Card Name Length: " + cardName.length());

        String priceText = PriceDispLabel.getText().replaceAll("[^\\d.]", "");

        double price = Double.parseDouble(priceText);

        int quantity = 100;

        double total = price * quantity;

        String query = "INSERT INTO cart (userid, card_id, name, price, quantity, total) VALUES
        (?, ?, ?, ?, ?, ?)";

        PreparedStatement pstmt = conn.prepareStatement(query);

        pstmt.setInt(1, userid);

        pstmt.setInt(2, id);

```

```

        pstmt.setString(3, cardName);

        pstmt.setDouble(4, price);

        pstmt.setInt(5, quantity);

        pstmt.setDouble(6, total);

        pstmt.executeUpdate();

        JOptionPane.showMessageDialog(this, "Card added to cart successfully!");

        conn.close();

    } catch (SQLException e) {

        JOptionPane.showMessageDialog(this, "Database Error: " + e.getMessage());

    } }

private void fetchCardDetails(int cardId) {

    Connection conn = null;

    PreparedStatement ps = null;

    ResultSet rs = null;

    try { conn = DriverManager.getConnection(

        "jdbc:mysql://localhost:3306/project?useSSL=false&allowPublicKeyRetrieval=true",

        "root", "Shin@maya");

    String sql = "SELECT * FROM cards WHERE card_id = ?";

    ps = conn.prepareStatement(sql);

    ps.setInt(1, cardId);

    rs = ps.executeQuery();

    if (rs.next()) {

        NameLabel.setText("Name: " + rs.getString("name"));

        NameLabel.setFont(new java.awt.Font("Segoe UI Black", 1, 22));

```

```

PriceDispLabel.setText("₹ " + rs.getFloat("price"));

PriceDispLabel.setFont(new java.awt.Font("Segoe UI", 0, 18));

String desc = rs.getString("descriptions");

if (desc != null && !desc.isEmpty()) {

    DescriptionAreaLabel.setText("<html><p style=\"width:470px;\">" + desc + "</p></html>");

    DescriptionAreaLabel.setFont(new java.awt.Font("Segoe UI", 0, 16));

}

String imagePath = rs.getString("image_path");

if (imagePath != null) {if (!imagePath.isEmpty()) {

    ImageIcon icon = new ImageIcon(imagePath);

    Image img = icon.getImage().getScaledInstance(360, 360, Image.SCALE_SMOOTH);

    JLabel imageLabel = new JLabel(new ImageIcon(img));

    imageLabel.setHorizontalAlignment(SwingConstants.CENTER);


    CardPanel.removeAll();

    CardPanel.setLayout(new BorderLayout());

    CardPanel.add(imageLabel, BorderLayout.CENTER);

    CardPanel.revalidate();

    CardPanel.repaint();

}    }} else {

    JOptionPane.showMessageDialog(this, "Card not found.");

}

} catch (SQLException e) {

    JOptionPane.showMessageDialog(this, "Database error: " + e.getMessage());

```

```

    } finally {

        try {

            if (rs != null) rs.close();

            if (ps != null) ps.close();

            if (conn != null) conn.close();

        } catch (SQLException ex) {

            Logger.getLogger(CardFrame.class.getName()).log(Level.SEVERE, null, ex);

        }

    }

}

public static void main(String args[]) {

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {

        }

    });

}

```

6. }SHOPPING CART FRAME:

```

private void PurchaseButtonActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    saveOrderToDatabase();

}

private void BackButtonActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    this.dispose();

}

```

```

        new ShoppingCartPage(UserSession.currentUserId).setVisible(true);
    }

    private void connectDatabase() {
    try {

        Connection con = conn.getConnection();

        if (con != null) {

            System.out.println(" Connected to DB from PurchasePage");

        }

    } catch (Exception e) {

        e.printStackTrace();

    }

}

private void loadCartData() {

    try {

        CallableStatement ps = conn.prepareCall("{CALL GetCartItemsByUserId(?)}");

        ps.setInt(1, userId);

        ResultSet rs = ps.executeQuery();

        DefaultTableModel model = (DefaultTableModel) CardTable.getModel();

        model.setRowCount(0);

        while (rs.next()) {

            String name = rs.getString("name");

            double price = rs.getDouble("price");

```

```

        int qty = rs.getInt("quantity");

        double total = price * qty;

        // Load image from the path

        String imagePath = rs.getString("image_path");

        ImageIcon icon = new ImageIcon(imagePath);

        Image scaledImage = icon.getImage().getScaledInstance(80, 80, Image.SCALE_SMOOTH);

        icon = new ImageIcon(scaledImage);

        model.addRow(new Object[] {icon, name, "₹" + price, qty, "₹" + total});

    }

} catch (SQLException e) {

    e.printStackTrace();

}

}

private void calculateTotals() {

    double subtotal = 0;

    DefaultTableModel model = (DefaultTableModel) CardTable.getModel();

    for (int i = 0; i < model.getRowCount(); i++) {

        String totalStr = model.getValueAt(i, 4).toString().replace("₹", "");

        subtotal += Double.parseDouble(totalStr);

    }

    double tax = subtotal * 0.10;

    double shipping = 50;

    double total = subtotal + tax + shipping;

    SubTotal.setText("₹" + subtotal);

```

```

        Tax.setText("₹" + tax);

        Shipping.setText("50.00");

        TotalAmount.setText("₹" + total);
    }

    private void saveOrderToDatabase() {
        try {
            Connection con = conn.getConnection();

            String country = (String) CountryCombo.getSelectedItem();

            String state = (String) StateCombo.getSelectedItem();

            String address = AddressField.getText();

            String paymentMethod = (String) PayCombo.getSelectedItem();

            Double total = Double.parseDouble(TotalAmount.getText().replace("₹", "").trim());

            if(address.isEmpty()){

                JOptionPane.showMessageDialog(this, "Please Fill Address Field");

            }

            else{

                PreparedStatement ps = con.prepareStatement(

                    "INSERT INTO orders(user_id, card_name, quantity, amount, country, state, address, payment_method, order_date, total_price) " +

                    "SELECT ?, c.name, ct.quantity, (c.price * ct.quantity), ?, ?, ?, ?, NOW(), ? " +

                    "FROM cart ct JOIN cards c ON ct.card_id = c.card_id WHERE ct.userid = ?"

                );

                ps.setInt(1, userId);    // user_id

                ps.setString(2, country);    // country

                ps.setString(3, state);    // state

```

```

        ps.setString(4, address);    // address

        ps.setString(5, paymentMethod); // payment method

        ps.setDouble(6, total);    // total_price

        ps.setInt(7, userId);    // WHERE ct.userid = ?

        int rowsAffected = ps.executeUpdate();

        if (rowsAffected > 0) {

            System.out.println(" Order inserted for user ID: " + userId);

            JOptionPane.showMessageDialog(this, " Payment Successful!");

            showBillOnScreen();

            clearCart();

        } else {

            System.out.println(" No rows inserted. Check cart for user ID: " + userId);

        } }

    } catch (SQLException e) {

        e.printStackTrace();

        JOptionPane.showMessageDialog(this, "Can't insert to Orders: " + e.getMessage(), "Error",
JOptionPane.ERROR_MESSAGE);

    }

}

private void showBillOnScreen() {

    JFrame billFrame = new JFrame("Invoice");

    billFrame.setSize(600, 600);

    billFrame.setLocationRelativeTo(null);

    JTextArea billArea = new JTextArea();

    billArea.setEditable(false);

```



```

StringBuilder billText = new StringBuilder();

billText.append("===== Geetha Cards - Invoice =====\n");

billText.append("Date: ").append(new Date()).append("\n\n");

billText.append("Delivery Details:\n");

billText.append("Country: ").append(CountryCombo.getSelectedItem()).append("\n");

billText.append("State: ").append(StateCombo.getSelectedItem()).append("\n");

billText.append("Address: ").append(AddressField.getText()).append("\n");

billText.append("Payment Method: ").append(PayCombo.getSelectedItem()).append("\n\n");

billText.append("Purchased Items:\n");

billText.append("-----\n");

billText.append(String.format("%-20s %-10s %-5s %-10s\n", "Card Name", "Price", "Qty", "Total"));

DefaultTableModel model = (DefaultTableModel) CardTable.getModel();

for (int i = 0; i < model.getRowCount(); i++) {

    String name = model.getValueAt(i, 1).toString();

    String price = model.getValueAt(i, 2).toString();

    String qty = model.getValueAt(i, 3).toString();

    String total = model.getValueAt(i, 4).toString();

    billText.append(String.format("%-20s %-10s %-5s %-10s\n", name, price, qty, total));

}

billText.append("-----\n");

billText.append("Subtotal: ").append(SubTotal.getText()).append("\n");

billText.append("Shipping: ₹50.00\n");

billText.append("Tax (10%): ").append(Tax.getText()).append("\n");

billText.append("Total Amount: ").append(TotalAmount.getText()).append("\n");

```

```

billArea.setText(billText.toString());

JScrollPane scrollPane = new JScrollPane(billArea);

billFrame.add(scrollPane);

billFrame.setVisible(true);

// --- After showing the bill, ask if they want to send email

int choice = JOptionPane.showConfirmDialog(null, "Do you want to send the invoice to the customer's
email?", "Send Invoice", JOptionPane.YES_NO_OPTION);

if (choice == JOptionPane.YES_OPTION) {

    String email = getEmailFromDatabase(UserSession.currentUserId);

    if (email != null && !email.trim().isEmpty()) {

        sendInvoiceEmail(email, billText.toString()); // send without asking manually

    } else {

        JOptionPane.showMessageDialog(null, "Email not found for the user.");

    }

}

private String getEmailFromDatabase(int userId) {

    String email = null;

    try {

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/your_database",
"your_username", "your_password");

        String query = "SELECT email FROM users WHERE userid = ?";

        PreparedStatement pst = con.prepareStatement(query);

        pst.setInt(1, userId);

        ResultSet rs = pst.executeQuery();

        if (rs.next()) {

            email = rs.getString("email");


```

```

    }

    rs.close();

    pst.close();

    con.close();
} catch (Exception e) {

    e.printStackTrace();

    JOptionPane.showMessageDialog(null, "Failed to fetch email: " + e.getMessage());
}

return email;
}

private void sendInvoiceEmail(String recipientEmail, String invoiceContent) {

    String fromEmail = "geetharanioffsetprinters10@gmail.com"; // Your email

    String password = "fyap xvip iawk knlr"; // App password

    Properties props = new Properties();

    props.put("mail.smtp.auth", "true");

    props.put("mail.smtp.starttls.enable", "true");

    props.put("mail.smtp.host", "smtp.gmail.com");

    props.put("mail.smtp.port", "587");

    Session session = Session.getInstance(props, new Authenticator() {

        protected PasswordAuthentication getPasswordAuthentication() {

            return new PasswordAuthentication(fromEmail, password);

        }

    });

    try {

```

```

        Message message = new MimeMessage(session);

        message.setFrom(new InternetAddress(fromEmail));

        message.setRecipients(Message.RecipientType.TO, InternetAddress.parse(recipientEmail));

        message.setSubject("Your Geetha Cards Invoice");

        message.setText(invoiceContent); // sending the full invoice text

        Transport.send(message);

        JOptionPane.showMessageDialog(null, "Invoice sent successfully to customer!");
    } catch (MessagingException e) {

        e.printStackTrace();

        JOptionPane.showMessageDialog(null, "Failed to send invoice: " + e.getMessage());
    }
}

private void clearCart() {

    try {

        PreparedStatement ps = conn.prepareStatement("DELETE FROM cart WHERE userid = ?");

        ps.setInt(1, userId);

        ps.executeUpdate();

        loadCartData();

        calculateTotals();

    } catch (SQLException e) {

        e.printStackTrace();

    }

}

public static void main(String args[])

```

```

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                //new PurchasePage().setVisible(true);

            }

        });}

public class conn {

    private static Connection con;

    static {

        try {

            Class.forName("com.mysql.cj.jdbc.Driver"); // or your JDBC driver

            con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/project?useSSL=false&allowPublicKeyRetri
eval=true", "root", "Shin@maya");

            System.out.println("Connected successfully!");

        } catch (Exception e) {

            System.out.println("Connection failed: " + e);

        }

    }

    public static Connection getConnection() {

        return con;

    }

    public static CallableStatement prepareCall(String query) throws SQLException {

        return con.prepareCall(query);

    }

    public static PreparedStatement prepareStatement(String sql) throws SQLException {

```

```
return con.prepareStatement(sql);    }
```

```
}ADMIN PAGE:
```

```
public class AdminFrame extends javax.swing.JFrame {

    public AdminFrame() {

        initComponents();

        loadCards();

    }

    private void LogoutButtonActionPerformed(java.awt.event.ActionEvent evt)
    {
        \

        int confirmLogout = JOptionPane.showConfirmDialog(this,

            "Are you sure you want to logout?",

            "Logout Confirmation",

            JOptionPane.YES_NO_OPTION);

        if (confirmLogout == JOptionPane.YES_OPTION) {

            this.dispose();

            new MainFrame().setVisible(true);

        } }

    private File selectedFile;

    private void AddCardButtonActionPerformed(java.awt.event.ActionEvent evt) {

        String cardName = CardNameText.getText();

        String cardType = (String) cardTypeCombo.getSelectedItem();

        String cardPrice = PriceField.getText();

        String descriptions = DescriptionField.getText();

        if (cardName.isEmpty() || cardPrice.isEmpty() || selectedFile == null || descriptions.isEmpty()) {
```

```

        JOptionPane.showMessageDialog(this, "Please fill all fields and select an image.", "Error",
JOptionPane.ERROR_MESSAGE);

        return;
    }

    try {

        saveCardToDatabase(cardName, cardType, cardPrice, selectedFile.getAbsolutePath(),
descriptions);

    } catch (ClassNotFoundException ex) {

        Logger.getLogger(AdminFrame.class.getName()).log(Level.SEVERE, null, ex);

    }

    //displayCard(cardName, cardType, cardPrice, selectedFile.getAbsolutePath());

    CardNameText.setText("");

    PriceField.setText("");

    PreviewLabel.setIcon(null);

    selectedFile = null;

}

private void ChooseURLButtonActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    JFileChooser fileChoose = new JFileChooser();

    fileChoose.setFileFilter(new FileNameExtensionFilter("Image Files", "jpg", "jpeg", "png"));

    int result = fileChoose.showOpenDialog(this);

    if(result == JFileChooser.APPROVE_OPTION){

        selectedFile = fileChoose.getSelectedFile();

        String imgpath = selectedFile.getAbsolutePath();

        ImageIcon cardImage = new ImageIcon(selectedFile.getAbsolutePath());

```

```

        Image img = cardImage.getImage().getScaledInstance(200, 200, Image.SCALE_SMOOTH);

        PreviewLabel.setIcon(new ImageIcon(img));

        ImageField.setText(imgpath);

    }

}

private Connection conn ;

private void saveCardToDatabase(String name, String type, String price, String imagePath, String
descriptions) throws ClassNotFoundException {

    try {

        Class.forName("com.mysql.cj.jdbc.Driver");

        String url = "jdbc:mysql://localhost:3306/project?useSSL=false&allowPublicKeyRetrieval=true";

        String user = "root";

        String password = "Shin@maya";

        conn = DriverManager.getConnection(url, user, password);

        String query = "INSERT INTO cards (name, type, price, image_path,descriptions) VALUES
(?, ?, ?, ?, ?)"

        PreparedStatement pstmt = conn.prepareStatement(query);

        pstmt.setString(1, name);

        pstmt.setString(2, type);

        pstmt.setFloat(3, Float.parseFloat(price));

        pstmt.setString(4, imagePath);

        pstmt.setString(5, descriptions);

        pstmt.executeUpdate();

        JOptionPane.showMessageDialog(this, "Card added successfully!");

        conn.close();
    }
}

```



```

    } catch (SQLException e) {

        JOptionPane.showMessageDialog(this, "Database Error: " + e.getMessage());

    }
}

private void UpdateButtonActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    String cardId = CardIdField.getText().trim();

    String selectedColumn = ColumnCombo.getSelectedItem().toString();

    String newValue = TextField.getText().trim();

    if (cardId.isEmpty() || newValue.isEmpty()) {

        JOptionPane.showMessageDialog(null, "Please enter Card ID and Data to change.");

        return;

    }

    String dbColumn = " ";

    switch (selectedColumn) {

        case "Card Name":

            dbColumn = "name";

            break;

        case "Card Price":

            dbColumn = "price";

            break;

        case "Card Image":

            dbColumn = "image_path";

            break;

        case "Card Type":

```

```

        dbColumn = "type";

        break;

    case "Description":

        dbColumn = "descriptions";

        break;

    default:

        JOptionPane.showMessageDialog(null, "Invalid column selected.");

        return;

    }

    // Update the database

    try {

        Connection conn = DriverManager.getConnection(

            "jdbc:mysql://localhost:3306/project?useSSL=false&allowPublicKeyRetrieval=true", "root",
            "Shin@maya");

        String sql = "UPDATE cards SET " + dbColumn + " = ? WHERE card_id = ?";

        PreparedStatement stmt = conn.prepareStatement(sql);

        stmt.setString(1, newValue);

        stmt.setString(2, cardId);

        int rowsAffected = stmt.executeUpdate();

        if (rowsAffected > 0) {

            JOptionPane.showMessageDialog(null, "Card updated successfully.");

        } else {

            JOptionPane.showMessageDialog(null, "Card ID not found.");

        }

        stmt.close();
    }

```

```

        conn.close();

    } catch (SQLException ex) {

        ex.printStackTrace();

        JOptionPane.showMessageDialog(null, "Error updating card: " + ex.getMessage());

    }

}

private void SaleButtonActionPerformed(java.awt.event.ActionEvent evt) {

    String year = YearField.getText();

    String month = MonthField.getText();

    loadSalesByMonthYear(SaleTable, year, month);

}

private void YearFieldFocusGained(java.awt.event.FocusEvent evt) {

    if(YearField.getText().equals("YYYY")){

        YearField.setText("");

        YearField.setForeground(Color.BLACK);

    }

}

private void YearFieldFocusLost(java.awt.event.FocusEvent evt) {

    // TODO add your handling code here:

    if(YearField.getText().isEmpty()){

        YearField.setText("YYYY");

        YearField.setForeground(Color.GRAY);

    }

}

```

```

private void MonthFieldFocusGained(java.awt.event.FocusEvent evt) {

    // TODO add your handling code here:

    if(MonthField.getText().equals("MM")){

        MonthField.setText("");

        MonthField.setForeground(Color.BLACK);

    }

}

private void MonthFieldFocusLost(java.awt.event.FocusEvent evt) {

    // TODO add your handling code here:

    if(MonthField.getText().isEmpty()){

        MonthField.setText("MM");

        MonthField.setForeground(Color.GRAY);

    }

}

private void EnableButtonActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    int cardId = getSelectedCardId();

    if (cardId != -1) {

        updateCardAvailability(cardId, 1);

    }

}

private void DisableButtonActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

```

```

int cardId = getSelectedCardId();

if (cardId != -1) {

    updateCardAvailability(cardId, 0);

}

}

private void loadCards() {

    try (Connection conn = DriverManager.getConnection(

        "jdbc:mysql://localhost:3306/project?useSSL=false&allowPublicKeyRetrieval=true",

        "root", "Shin@maya")) {

        DefaultTableModel tableModel = (DefaultTableModel) DeleteTable.getModel();

        tableModel.setRowCount(0); // Clear previous rows

        String sql = "SELECT card_id, name, available FROM cards";

        Statement stmt = conn.createStatement();

        ResultSet rs = stmt.executeQuery(sql);

        while (rs.next()) {

            int cardId = rs.getInt("card_id");

            String cardName = rs.getString("name");

            int available = rs.getInt("available");

            String availableStatus = (available == 1) ? "Available" : "Unavailable";

            tableModel.addRow(new Object[]{cardId, cardName, availableStatus});

        }

    } catch (SQLException e) {

        e.printStackTrace();

        JOptionPane.showMessageDialog(this, "Database error: " + e.getMessage());
    }
}

```

```
}  
}
```

```
private int getSelectedCardId() {  
    int selectedRow = DeleteTable.getSelectedRow();  
    if (selectedRow != -1) {  
        Object cardIdObj = DeleteTable.getValueAt(selectedRow, 0);  
        if (cardIdObj != null) {  
            return Integer.parseInt(cardIdObj.toString());        } else {  
                JOptionPane.showMessageDialog(this, "Card ID is null. Please select a valid row.");  
                return -1;  
            } } else {  
                JOptionPane.showMessageDialog(this, "Please select a card first.");  
                return -1;  
            }  
        }  
    }  
}  
  
private void updateCardAvailability(int cardId, int availableStatus) {  
    try (Connection conn = DriverManager.getConnection(  
        "jdbc:mysql://localhost:3306/project?useSSL=false&allowPublicKeyRetrieval=true",  
        "root", "Shin@maya")) {  
        String sql = "UPDATE cards SET available = ? WHERE card_id = ?";  
        PreparedStatement pst = conn.prepareStatement(sql);  
        pst.setInt(1, availableStatus);  
        pst.setInt(2, cardId);  
        int rowsUpdated = pst.executeUpdate();  
    }  
}
```

```

        if (rowsUpdated > 0) {

            String message = (availableStatus == 1) ? "Card enabled successfully!" : "Card disabled
successfully!";

            JOptionPane.showMessageDialog(this, message);

            loadCards();

        } else {

            JOptionPane.showMessageDialog(this, "Failed to update card availability.");

        }

    } catch (SQLException e) {

        e.printStackTrace();

        JOptionPane.showMessageDialog(this, "Database error: " + e.getMessage());

    }

}

public void loadSalesByMonthYear(JTable table, String yearStr, String monthStr) {

    if (yearStr.isEmpty() || monthStr.isEmpty()) {

        JOptionPane.showMessageDialog(null, "Please enter both Year and Month.");

        return;

    }

    try {

        int year = Integer.parseInt(yearStr);

        int month = Integer.parseInt(monthStr);

        Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/project?useSSL=false&allowPublicKeyRetri
eval=true", "root", "Shin@maya");

        PreparedStatement stmt = conn.prepareStatement(

```

```

        "SELECT order_id, total_price, quantity, order_date FROM orders WHERE YEAR(order_date)
        = ? AND MONTH(order_date) = ?"

    );

    stmt.setInt(1, year);

    stmt.setInt(2, month);

    var rs = stmt.executeQuery();

    DefaultTableModel model = new DefaultTableModel();

    model.setColumnIdentifiers(new Object[]{"Order ID", "Amount", "Quantity", "Date"});

    while (rs.next()) {

        String orderId = rs.getString("order_id");

        double amount = rs.getDouble("total_price");

        int qty = rs.getInt("quantity");

        Date date = rs.getDate("order_date");

        model.addRow(new Object[]{orderId, amount, qty, date});

    } table.setModel(model);

} catch (NumberFormatException ex) {

    JOptionPane.showMessageDialog(null, "Year and Month must be numeric values.");

} catch (Exception ex) {

    ex.printStackTrace();

    JOptionPane.showMessageDialog(null, "Error: " + ex.getMessage());

}}

public static void main(String args[]) {

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {

            new AdminFrame().setVisible(true);}}});

```


CHAPTER 5

SCREENSHOTS

MAINPAGE:

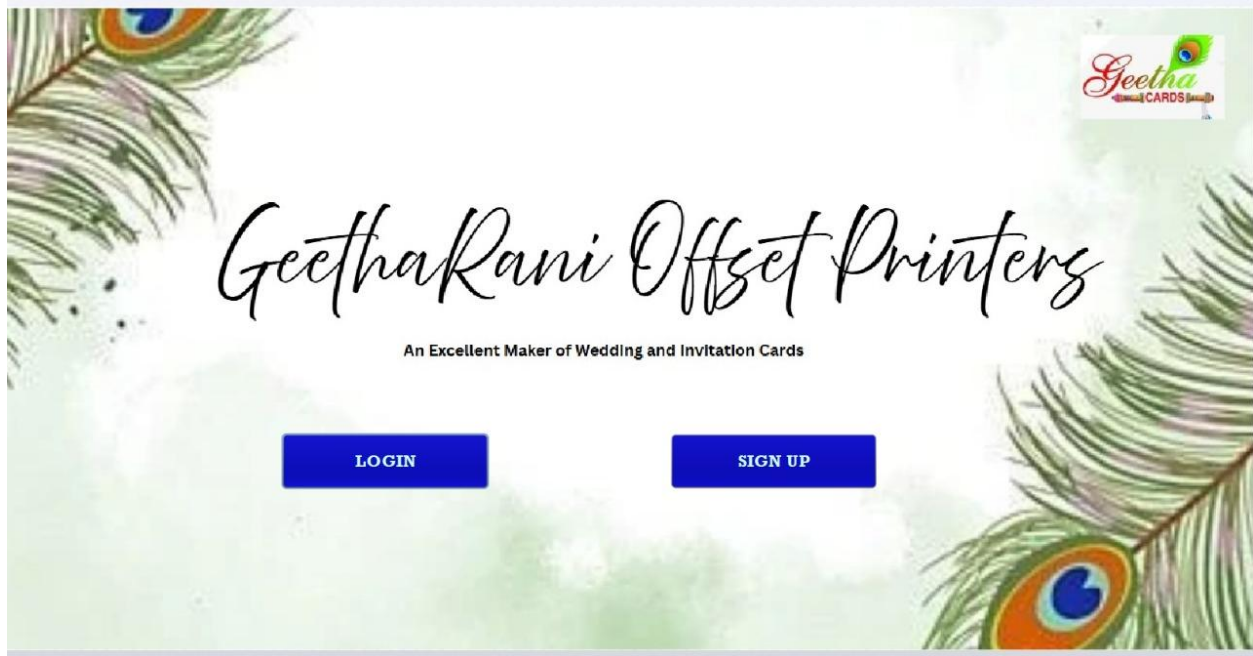



Fig 5.1.1

LOGIN FORM

The screenshot shows a login form within a web browser window. The background of the form is a light green and white watercolor-style pattern. On the left side of the form, there is a small illustration of a couple in traditional Indian wedding attire. The form itself is a light gray rectangle with a black border. At the top center of the form, the word 'LOGIN' is written in bold, black, sans-serif font. Below it, there are two input fields: 'USER NAME' and 'PASSWORD'. The 'USER NAME' field is a simple text box, and the 'PASSWORD' field is a text box with a small eye icon to its right, indicating a 'show password' toggle. Below the password field, there is a small checkbox labeled 'show password'. At the bottom of the form, there are two buttons: a 'BACK' button on the left and a 'LOGIN' button on the right. The browser window has a standard title bar with minimize, maximize, and close buttons.

Fig 5.1.2

SIGN UP FRAME



SIGN UP

EMAIL ADDRESS

USERNAME

Enter User Name

PHONE NO.

Enter Phone Number

PASSWORD

Show Password

CONFORM PASSWORD

Show Password

SIGNUP

BACK

Fig 5.1.3

MAIN CARD FRAME:


Geetha Rani Cards

All Cards


Hindu Cards

Muslim Cards


Christian Cards




christian 1
Price: 59.9




hindu 2
Price: 73.0




hindu 1
Price: 63.05




Muslim8
Price: 150.0
(Stock Unavailable)



Hindu2
Price: 150.0



Hindu8
Price: 100.0




Muslim
Price: 100.0

Fig 5.1.4


7

CARD FRAME:



BACK

Name: Hindu1



PRICE : ₹ 150.0

CART

Description :

Elegant Scroll-Themed Hindu Wedding Invitation Card – Red & Gold Royal Design

Celebrate your special day with this beautifully crafted scroll-style Hindu wedding card featuring a traditional red and gold color palette. Set against an ornate floral and geometric border, the centerpiece is a parchment-style scroll displaying your wedding details in a regal font. The elegant illustration of the bride and groom in traditional Indian attire adds a personalized and cultural touch, making it perfect for a grand celebration. Key Features: Scroll-themed layout with realistic parchment texture Rich red and gold color scheme symbolizing prosperity and love Traditional Indian couple illustration in wedding attire Beautiful floral and geometric border accents Fully customizable text for names, date, venue, and more Ideal for Hindu wedding ceremonies, engagements, or receptions Perfect For: Couples seeking a blend of tradition and elegance with a royal touch.

Fig 5.1.5

SHOPPING CART:

Back


| Image | Card Name | Price | Quantity | Total |
|---|-----------|-------|----------|---------|
|  | Muslim | 100.0 | 100 | 10000.0 |

Fig 5.1.6

PURCHASE FRAME:

DELIVERY DETAILS

Country

India

State

Andhra Pradesh

Address

sivakasi

Payment Method

Credit Card

BACK

| Card | Name | Price | Quantity | Total Amount |
|--------------------------------|--------|--------|----------|--------------|
| javax.swing.ImageIcon@6e7bed0b | Muslim | ₹100.0 | 100 | ₹10000.0 |

Message

i

Payment Successful!

OK

Payment Summary

Sub Total

₹10000.0

Shipping

50.00

Tax (10%)

₹1000.0

Total Amount (including tax)

₹11050.0

Purchase

Fig 5.1.7

INVOICE

Invoice

===== Geetha Cards - Invoice =====
Date: Tue Apr 29 23:52:53 IST 2025

Delivery Details:
Country: India
State: Tamil Nadu
Address: virudhunagar
Payment Method: Credit Card

Purchased Items:

| Card Name | Price | Qty | Total |
|-----------|--------|-----|----------|
| Muslim | ₹100.0 | 100 | ₹10000.0 |

Subtotal: ₹10000.0

Shipping: ₹50.00

Tax (10%): ₹1000.0

Total Amount: ₹11050.0

Fig 5.1.8

EMAIL INVOICE :

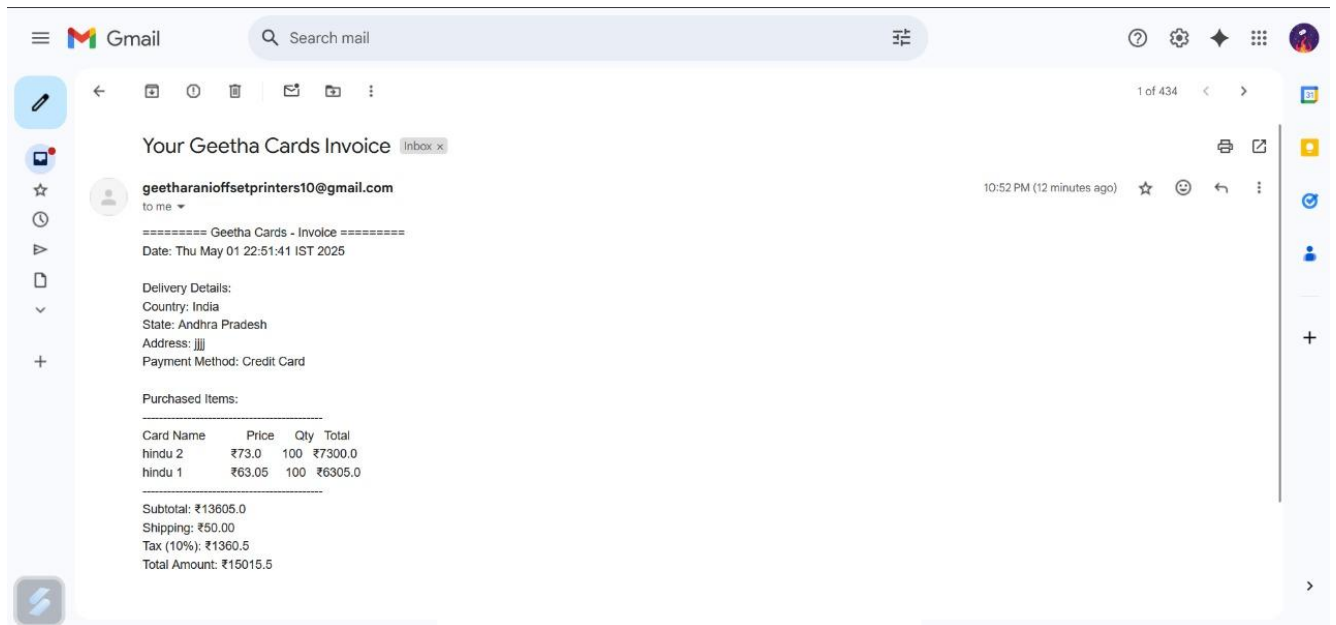


Fig 5.1.9

ADMIN PAGE:

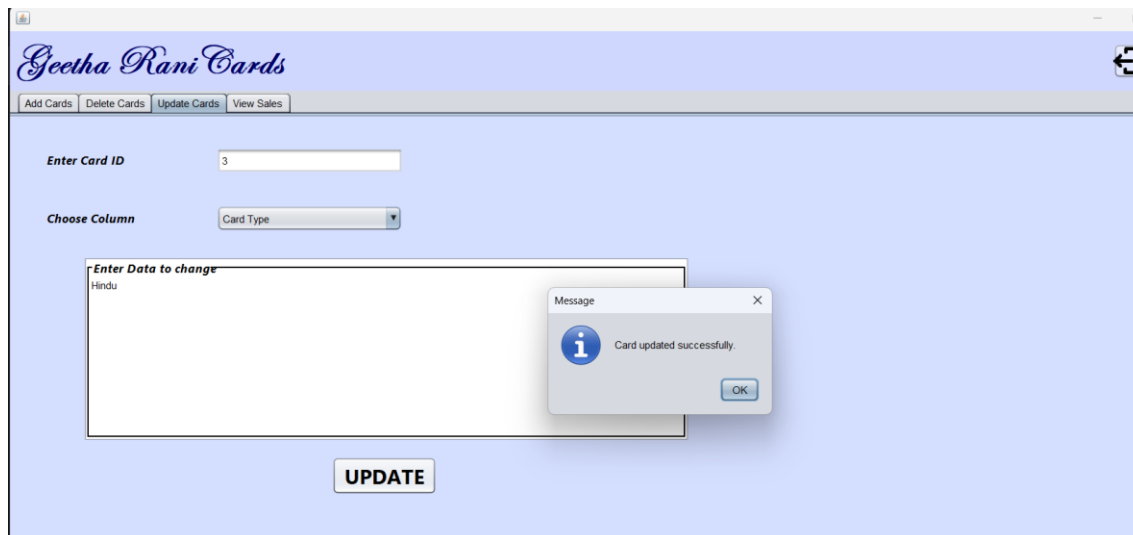




Fig 5.1.10

TABLES:

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

| userid | username | password | emailid | phone | roles |
|--------|----------|----------------|------------------------|------------|----------|
| 1 | admin | admin | admin@gmail | 6379520078 | admin |
| 2 | rithu | 281024#Rithu | rithu0284@gmail.com | 8345373483 | customer |
| 4 | shinu | 744668@Shinu | shinu0247@gmail.com | 9698998523 | customer |
| 6 | banu | 198005\$Banu | banu05@gmail.com | 6574390188 | customer |
| 7 | harini | 1984710#Harini | harini2705@gmail.com | 7561089439 | customer |
| 8 | vikasini | 2025@Vika | vika09@gmail.com | 9087564312 | customer |
| 9 | teju | 1813#Teju | thendral1813@gmail.com | 7550171760 | customer |
| 10 | shinu | 7890@Shinu | shinu0247@gmail.com | 6835987527 | customer |
| | | | | | |

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

| card_id | name | type | price | image_path | descriptions | added_on | available |
|---------|---------|-----------|-------|--|--|---------------------|-----------|
| 2 | Muslim | Muslim | 100 | C:\Users\SHINU\OneDrive\문서\miniproject\we... | Elegant Green & Gold Muslim Wedding Invitatio... | 2025-04-09 21:47:17 | 1 |
| 3 | Hindu8 | Christian | 100 | C:\Users\SHINU\OneDrive\문서\miniproject\we... | Celebrate your big day in style with this elegant... | 2025-04-10 08:58:17 | 0 |
| 4 | Hindu2 | Hindu | 150 | C:\Users\SHINU\OneDrive\문서\miniproject\we... | | 2025-04-10 09:05:24 | 1 |
| 6 | Muslim8 | Christian | 150 | C:\Users\SHINU\OneDrive\문서\miniproject\we... | | 2025-04-16 18:59:45 | 1 |
| | | | | | | | |

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

| order_id | user_id | card_name | quantity | amount | country | state | address | payment_method | order_date | total_price |
|----------|---------|-----------|----------|----------|---------|----------------|------------------|----------------|---------------------|-------------|
| 1 | 3 | Muslim | 500 | 50000.00 | India | Tamil Nadu | sasi nagar | Credit Card | 2025-04-24 19:30:16 | 55050.00 |
| 11 | 9 | Hindu1 | 200 | 30000.00 | India | Tamil Nadu | mudichur,chennai | GPay | 2025-04-24 19:56:34 | 82550.00 |
| 12 | 9 | Hindu8 | 450 | 45000.00 | India | Tamil Nadu | mudichur,chennai | GPay | 2025-04-24 19:56:34 | 82550.00 |
| 14 | 4 | Hindu8 | 450 | 45000.00 | India | Tamil Nadu | housing board | Credit Card | 2025-04-24 20:24:30 | 49550.00 |
| 15 | 3 | Muslim | 100 | 10000.00 | India | Tamil Nadu | reserve line | Credit Card | 2025-04-24 20:28:02 | 11050.00 |
| 16 | 4 | Hindu8 | 200 | 20000.00 | India | Andhra Pradesh | | Credit Card | 2025-04-24 20:36:13 | 22050.00 |
| 17 | 3 | Muslim | 100 | 10000.00 | India | Assam | housing board | PhonePe | 2025-04-24 22:02:27 | 11050.00 |
| 18 | 3 | Hindu1 | 150 | 22500.00 | India | Andhra Pradesh | sivakasi | | 2025-04-25 12:04:46 | 24800.00 |
| 19 | 3 | Hindu2 | 200 | 30000.00 | India | Chhattisgarh | | Debit Card | 2025-04-25 12:30:53 | 33050.00 |
| 20 | 6 | Hindu8 | 150 | 15000.00 | India | Andhra Pradesh | | Credit Card | 2025-04-28 21:30:11 | 16550.00 |
| 21 | 4 | Muslim | 100 | 10000.00 | India | Andhra Pradesh | | Credit Card | 2025-04-29 13:48:31 | 11050.00 |
| 22 | 8 | Hindu8 | 100 | 10000.00 | India | Andhra Pradesh | | Credit Card | 2025-04-29 13:50:02 | 11050.00 |
| 23 | 4 | Muslim | 100 | 10000.00 | India | Andhra Pradesh | sivakasi | Credit Card | 2025-04-29 23:40:15 | 27550.00 |
| 24 | 4 | Muslim8 | 100 | 15000.00 | India | Andhra Pradesh | sivakasi | Credit Card | 2025-04-29 23:40:15 | 27550.00 |

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

| userid | card_id | name | price | quantity | total |
|--------|---------|-----------|-------|----------|-------|
| 8 | 3 | 52 Hindu8 | 100 | 100 | 10000 |
| 4 | 2 | 54 Muslim | 100 | 100 | 10000 |
| 4 | 3 | 55 Hindu8 | 100 | 100 | 10000 |
| | | | | | |

Fig 5.1.11

CHAPTER 6

CONCLUSION


Thus the system allows users to sign up, log in, view cards categorized by religion, add them to a cart, and finalize purchases with address and payment information. At the same time, it provides an admin panel where administrators can add, update, delete cards, and view monthly sales reports, thereby making business management straightforward. Overall, "GeethaRani wedding Cards" successfully automates the traditional wedding card shopping process into a simple, digital format, saving time for customers and providing efficient business tracking for shop owners. The project not only helped in understanding real-time software development but also improved skills in Java, JDBC, Swing, MySQL, and software design practices.

CHAPTER 7

REFERENCES

1. **Java Official Documentation** Used for learning about Java Swing, JDBC, exception handling. <https://docs.oracle.com/javase/>
2. **MySQL Documentation** database setup, and stored procedures.
<https://dev.mysql.com/doc/>
3. **Stack Overflow** debug issues, understand errors, and find code solutions.
<https://stackoverflow.com/>
4. **GeeksforGeeks** <https://www.geeksforgeeks.org/>
5. **W3Schools** <https://www.w3schools.com/sql/>
6. **TutorialsPoint** reference for Java and database integration.
7. **GitHub** For learning structure and flow of similar projects
8. **YouTube Tutorials** For visual guidance on Java GUI building and database connectivity

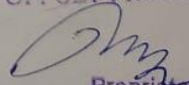
APPENDIX



Geetharani Offset Printers
An excellent maker of wedding cards & invitation cards
1547, Jawaharlal Nehru Road, Sivakasi - 626 123.

Ref.no Date

We Grant Access to these Students
R.Lakshana,K.Shinmaya,m.Vikashini Dhaksha to Develop a database software
For our Company.

For GEETHARANI OFFSET PRINTERS,
A. 
Proprietor.

Tin No. : 33245960852 CST. No. : 515316 dt. 15-4-80

Off : (04562) 223698, 225730, Cell. : 98430 27749, 98432 27749, e-mail:geethacards@yahoo.com.

Fig 7.1.1

