

**Dr. MGR-JANAKI COLLEGE OF ARTS AND SCIENCE  
FOR WOMEN**

**NEXTGEN INTERNSHIP PROJECT:**

# **DIGITAL WALLET**

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# **Digital Wallet Payment System**

## **Introduction**

**The digital wallet payment system is an application that allows users to make secure and convenient financial transactions using their digital devices. This project focuses on creating a user-friendly interface for a digital wallet, enabling users to manage their funds, make payments, and view transaction histories.**

## **Objectives**

- To develop a secure and efficient digital payment system.
- To enable users to add funds, make payments, and view transaction details.
- To provide a simple and intuitive user interface for seamless transactions.
- To ensure compatibility across devices through responsive design.

## **Scope**

The digital wallet payment system can be utilized for:

- Online shopping payments.
- Peer-to-peer money transfers.
- Utility bill payments.
- Mobile recharges and subscriptions.

## **Features**

### **Core Features:**

- **User Authentication:** Login/signup functionality for secure access.
- **Wallet Balance Management:** Displays the current wallet balance.
- **Payment Processing:** Allows users to make payments using various methods (credit card, debit card, UPI, etc.).
- **Transaction History:** A list of recent transactions for tracking expenses.

### **Additional Features:**

- Notes for transactions.
- Secure payment gateway integration.
- Responsive design for mobile and desktop platforms.

## **Technologies Used**

### **Frontend:**

- **HTML:** Structure of the application.
- **CSS:** Styling the user interface.
- **Bootstrap:** Responsive design and prebuilt UI components.

### **Backend (Optional for Full Stack):**

- **Node.js** or **PHP**: Server-side processing.
- **MySQL** or **MongoDB**: Storing user data and transaction details.

### **System Design**

The system is divided into the following components:

1. **User Interface (UI)**: Provides users with a seamless way to interact with the wallet.
2. **Payment Gateway Integration**: Handles secure financial transactions.
3. **Database Management**: Manages user details and transaction histories.

### **Implementation**

#### **Frontend Development:**

- Designed using HTML, CSS, and Bootstrap to create a responsive interface.
- Features forms for wallet ID, payment amount, and payment method selection.

#### **Backend Development (Optional for Full Stack):**

- Secure APIs for processing payments and managing transaction data.
- Database setup to store user and transaction details.

### **Challenges**

- Ensuring security in handling sensitive payment details.
- Designing an intuitive UI for a wide range of users.
- Handling edge cases like failed transactions or invalid inputs.

### **Benefits**

- Enhances the convenience of managing funds and making payments.
- Reduces dependency on physical cash.
- Provides a secure and traceable way to handle transactions.

### **Future Enhancements**

- Add biometric authentication for enhanced security.
- Integrate with cryptocurrency payment methods.
- Enable QR code scanning for faster payments.
- Develop a mobile application for better accessibility.

### **Conclusion**

The digital wallet payment system provides a reliable and efficient platform for managing funds and making payments. By leveraging modern web technologies, the system ensures secure and user-friendly financial transactions. This project serves as a foundation for building more advanced and feature-rich digital payment solutions.

Digital Wallet

Your Balance

\$500.00

Add Funds

Withdraw

Transaction History

Deposited \$100

Withdrawn \$50

Digital Wallet Payment

Wallet ID

Enter Wallet ID

Amount

5000000

Payment Method

UPI

Notes (Optional)

fees

Pay Now

Secure Payment Gateway

## UPI PIN Verification

Please enter your UPI PIN to complete the payment.

UPI PIN

Confirm Payment

## Payment Successful

Thank you for your payment! Here are the details of your transaction:

### Payment Details:

Wallet: UPI

Email/Phone: Prabhavathi9112004@gmail.com

Amount Paid: Rs. 5000000

Back to Home

## PROGRAM CODE:

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Digital Wallet Payment</title>
7    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
8    <link rel="stylesheet" href="styles.css">
9  </head>
10 <body>
11   <div class="container py-5">
12     <div class="row justify-content-center">
13       <div class="col-md-6">
14         <div class="card shadow-lg">
15           <div class="card-header bg-primary text-white text-center">
16             <h3>Digital Wallet Payment</h3>
17           </div>
18           <div class="card-body">
19             <form>
20               <div class="mb-3">
21                 <label for="walletId" class="form-label">Wallet ID</label>
22                 <input type="text" id="walletId" class="form-control" placeholder="Enter Wallet ID" required>
23               </div>
24               <div class="mb-3">
25                 <label for="amount" class="form-label">Amount</label>
26                 <input type="number" id="amount" class="form-control" placeholder="Enter Amount" required>
27               </div>
28               <div class="mb-3">
29                 <label for="paymentMethod" class="form-label">Payment Method</label>
30                 <select id="paymentMethod" class="form-select" required>
31                   <option value="">Select Payment Method</option>
32                   <option value="credit">Credit Card</option>
33                   <option value="debit">Debit Card</option>
34                   <option value="upi">UPI</option>
35                   <option value="netbanking">Net Banking</option>
36                 </select>
37               </div>
38               <div class="mb-4">
39                 <label for="notes" class="form-label">Notes (Optional)</label>
40                 <textarea id="notes" class="form-control" rows="3" placeholder="Add any notes..."></textarea>
41               </div>
42               <button type="submit" class="btn btn-success w-100">Pay Now</button>
43             </form>
44           </div>
45           <div class="card-footer text-center">
46             <small>Secure Payment Gateway</small>
47           </div>
48         </div>
49       </div>
50     </div>
51   </div>
52
53   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/js/bootstrap.bundle.min.js"></script>
54 </body>
55 </html>
```