

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

NEXTGEN INTERNSHIP PROJECT:

DIGITAL WALLET

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SHIFT: II

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>
```