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

## **NEXTGEN INTERNSHIP PROJECT:**

# **DIGITAL WALLET**

NAME: Prabhavathi. M

**DEPT: B.sc (CS)** 

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**

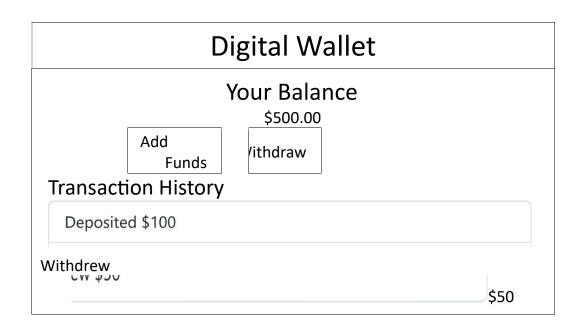
- Enhances the convenience of managing funds and making payments.
- Reduces dependency on physical cash.
- Provides a secure and traceable way to handle transactions.

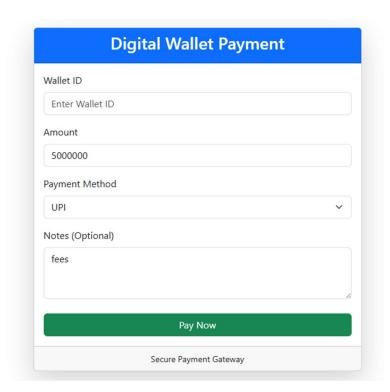
#### **Future Enhancements**

- 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.

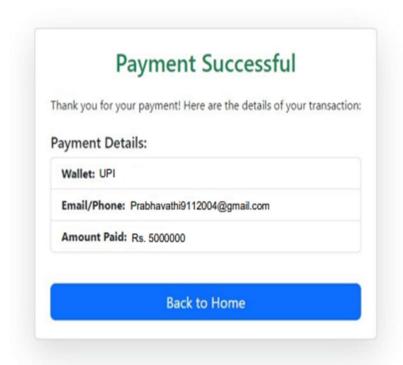
#### Conclusion

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.









#### **PROGRAM CODE:**

```
<!DOCTYPE html>
<html lang="en">
<meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Digital Wallet Payment</title>
 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
<link rel="stylesheet" href="styles.css">
 <div class="container py-5">
  <div class="row justify-content-center">
    <div class="col-md-6">
         <div class="card-header bg-primary text-white text-center">
          <h3>Digital Wallet Payment</h3>
         <div class="card-body">
             <div class="mb-3">
              <label for="walletId" class="form-label">Wallet ID</label>
              <input type="text" id="walletId" class="form-control" placeholder="Enter Wallet ID" required>
             <div class="mb-3">
              <label for="amount" class="form-label">Amount</label>
              <input type="number" id="amount" class="form-control" placeholder="Enter Amount" required>
             <div class="mb-3">
              <label for="paymentMethod" class="form-label">Payment Method</label>
               <select id="paymentMethod" class="form-select" required>
               <option value="">Select Payment Method</option>
                <option value="credit">Credit Card</option>
                 <option value="debit">Debit Card</option>
                 <option value="upi">UPI</option>
                 <option value="netbanking">Net Banking</option>
             <div class="mb-4">
               <label for="notes" class="form-label">Notes (Optional)</label>
               <textarea id="notes" class="form-control" rows="3" placeholder="Add any notes..."></textarea>
             <button type="submit" class="btn btn-success w-100">Pay Now</button>
          <small>Secure Payment Gateway</small>
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/js/bootstrap.bundle.min.js"></script>
```