

# UNIPAY

**Make fast and secure campus payments**

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# Purpose of UniPay

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- Facilitates digital payments within the campus between students, faculty, and merchants.
- Uses AI-based spending analysis to provide personalized discounts instead of generic rewards.
- Offers dashboards for users to track wallet balance and view categorized spending.

# Inputs and Outputs

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## **Inputs:**

- User login credentials (email/password)
- Payment details (amount, merchant, category)
- User actions like:
  - Spending a certain amount
  - Claiming a reward
  - Viewing a report or downloading it
  - Adding merchant offers (by admin or merchant)

## **Outputs:**

- Spending summary charts (line, ring, bar)
- Wallet balance and total usage stats
- Transaction history with filters
- Reward notifications and discounts
- AI-generated suggestions based on user spending

# Performance Requirements

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- Fast load time: Dashboards and transaction data should load within 2-3 seconds.
- Secure transactions: All payment actions must be done over HTTPS, with proper authentication.
- AI/ML processing: Transaction data should be analyzed in the background without affecting the UI responsiveness.
- Scalability: Should handle hundreds of simultaneous users, especially during events or fee deadlines.
- Mobile responsiveness: The UI should adapt smoothly to various screen sizes and devices.
- Error handling: System should provide clear feedback on failed payments or login errors.
- Real-time updates: Wallet balance and transaction logs should update instantly after any transaction.

# Feasibility Report

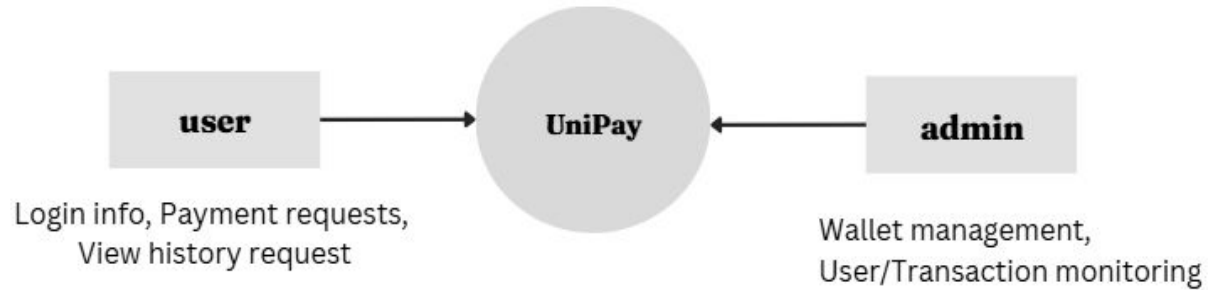
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Technical Feasibility	<ul style="list-style-type: none"><li>• Uses open-source tech (HTML/CSS/JS, Flask, MongoDB)</li><li>• The system handles moderate server load</li></ul>
Economic Feasibility	<ul style="list-style-type: none"><li>• Low-cost due to free tools and platforms</li><li>• Existing campus infrastructure (Wi-Fi, devices) can be reused</li></ul>
Operational Feasibility	<ul style="list-style-type: none"><li>• Students and faculty are already familiar with digital tools</li><li>• Dashboards simplify transaction and discount management</li></ul>

# DFD - Level 0

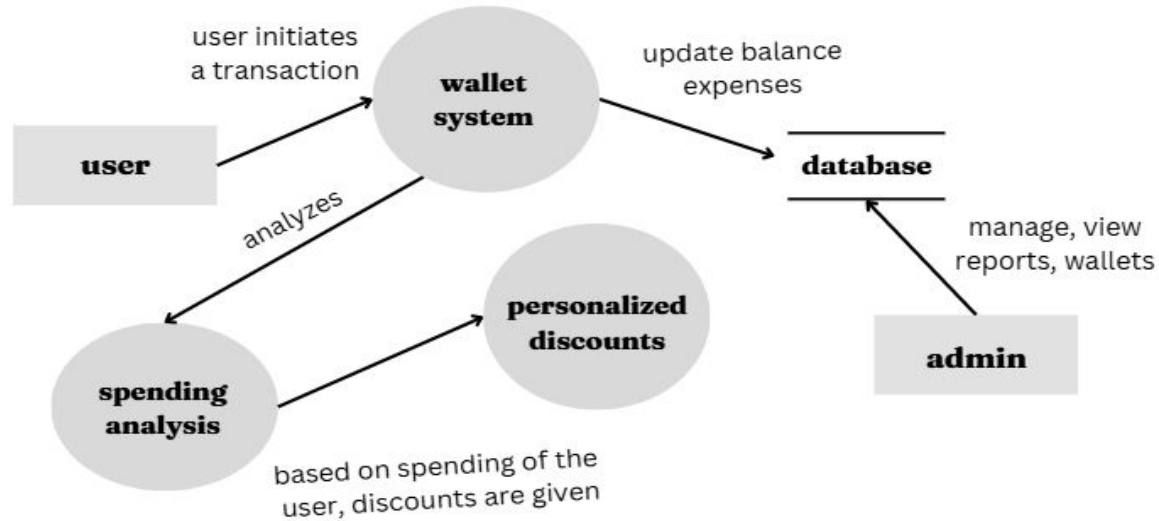
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## level 0 DFD



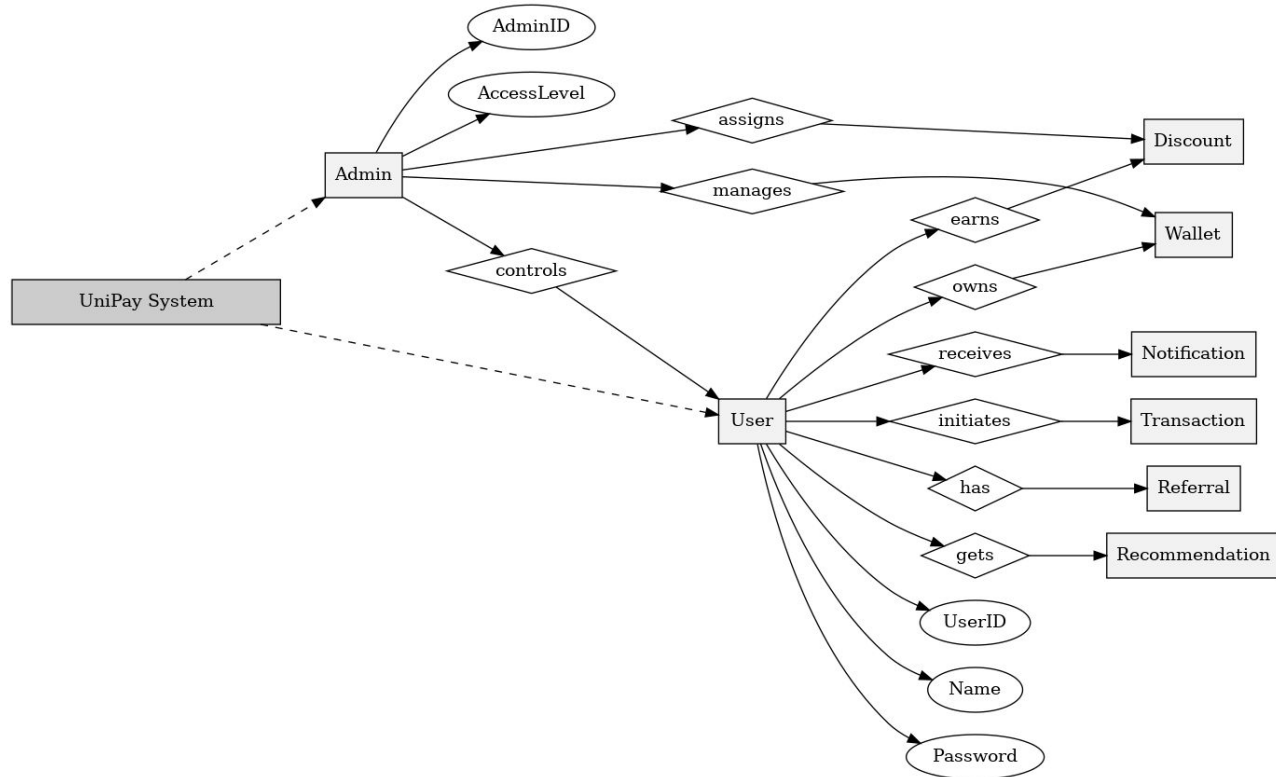
# DFD - Level 1

## level 1 DFD

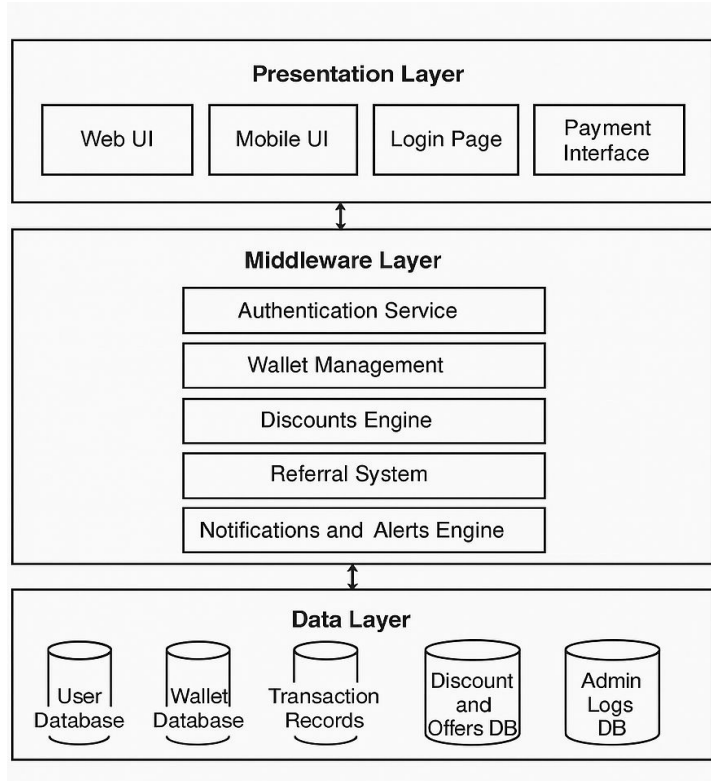




# ER Diagram



# System architecture



**THANK YOU!!!**