

Wallets System Design

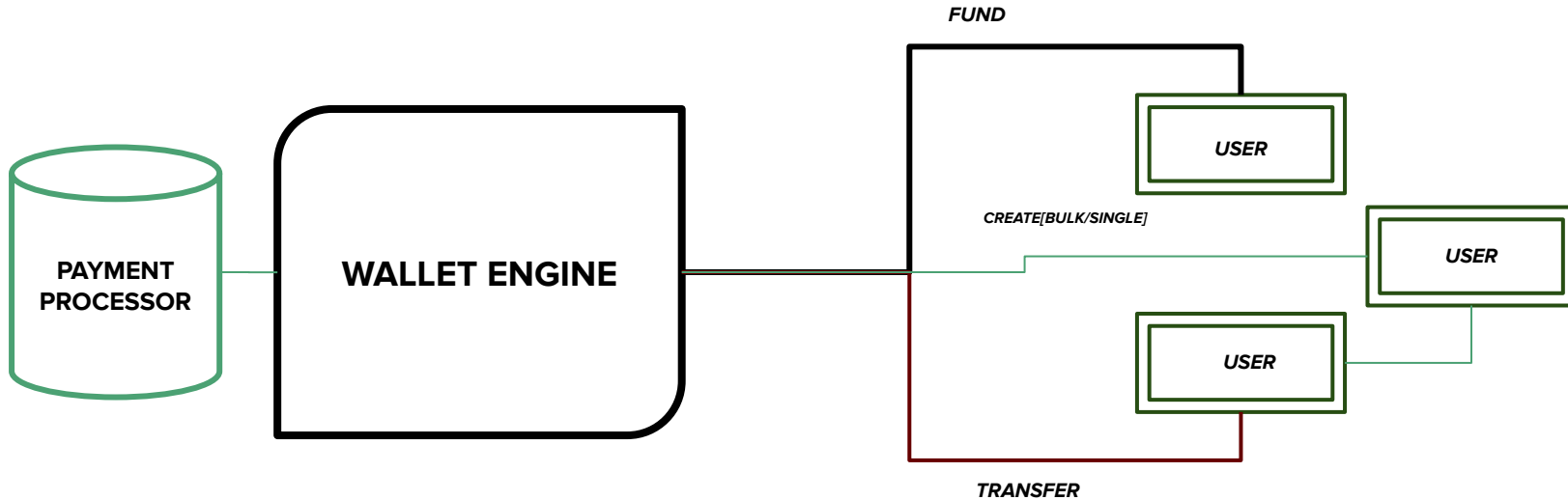
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Introduction

A simplistic wallet system with basic functionalities



Product Requirements

A simple wallet system where registered and authenticated users can perform basic wallet operations like top up, wallet to wallet transfer.

Platform Components

- Authentication
- Authorization
- Users
- Wallets
- Payment
- Admin

User Stories

- User can create an account using a phone number and password
- User can create multiple wallets
- User can top up their wallets
- User can perform wallet to wallet transfer
- Admin User can approve wallet transfer of up to or above 1,000,000
- Admin user can get all payment summary form users

Backend Architecture

<i>Component</i>	<i>Technology</i>	<i>Pattern</i>
Architecture	Microservices	Queuing
Business Logic	Nestjs(Nodej0	Repository Design Pattern
Messaging	Rabbitmq	Singleton
Database	Postgresql	Role Pattern/Relationships Cardinality
Payment Processor	Paystack	N/A

Onboarding Process Flow Diagram

