DivvyHealth
Product Requirements Document (PRD)

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1. Executive Summary
DivvyHealth is a Web3, AI-powered healthcare marketplace designed to connect doctors, patients, pharmacists, and payers within a single platform, enhancing access to healthcare services and leveraging blockchain for secure transactions.

2. Purpose
This document outlines the specific requirements for DivvyHealth, ensuring that all project stakeholders have a clear understanding of the product's functionalities and the roadmap for deployment.

3. Scope
The project encompasses the development of a web-based platform with mobile capabilities to provide:
- Scheduling and management for healthcare providers.
- Access to pharmacy services and direct patient-to-pharmacy transactions.
- Cryptocurrency transaction systems for payments within the ecosystem.

4. Stakeholders
- Healthcare Providers (Doctors, Clinics)
- Patients
- Pharmacists
- Insurance Companies
- Investors

- Technology Partners

5. Requirements

Functional Requirements
1. User Authentication and Authorization
  - Secure login systems for all user types (OAuth, Web3 wallets).
2. Appointment Scheduling
  - Interactive calendars and appointment booking features for providers and patients.
3. Prescription Management
  - Digital prescribing and processing capabilities for doctors and pharmacies.
4. Payment Gateway
  - Integration of blockchain-based payment systems using stablecoins.

Non-Functional Requirements
1. Performance
  - High throughput transaction processing with minimal latency.
2. Scalability
  - Ability to scale horizontally to accommodate growing user base.
3. Security
  - Compliance with HIPAA and other relevant security standards for data protection.

6. System Architecture
Provide a high-level architecture diagram detailing the backend, frontend, blockchain, and third-party services integration.

7. User Stories
Detail key user stories to guide the development process, each linked to a specific requirement.

8. Implementation Plan
- **Phase 1:** Infrastructure Setup (Cloud services, blockchain network)
- **Phase 2:** Core Module Development (User management, scheduling)
- **Phase 3:** Blockchain Integration (Payment systems)
- **Phase 4:** Pilot Testing with Select Providers and Patients
- **Phase 5:** Full Scale Roll-out and Marketing

9. Funding Sources
- **Initial Seed Funding:** [Ethereum, Source]
- **Series A Round:** [Targeted Amount, Estimated Timeline]
- **Grants and Partnerships:** [Specific Grants, Industry Partnerships]

10. Timeline
- **Q3 2024:** Discovery
- **Q4 2024:** Complete system design and start development.

- **Q1 2025:** Finish core development and begin integration tests.
- **Q2 2025:** Start pilot testing with live data.
- **Q3 2025:** Launch platform publicly.

11. Appendix
- **A1:** Architecture Diagrams
- **A2:** Detailed Budget Breakdown
- **A3:** Risk Analysis and Mitigation Strategies