

Product Requirements Document (PRD)

AI Wallet Assistant Frontend

Version 2.0 / Optimized for Intuitive User Experience

1. Introduction

The **AI Wallet Assistant** aims to provide a **seamless, AI-driven interface** for managing cryptocurrency transactions. While traditional interfaces like **Discord** cater to community-based interactions, this product focuses on **efficiency, clarity, and simplicity** in handling wallet-related commands.

Why Not Discord?

While Discord's UI is designed for community interactions, the AI Wallet Assistant requires a **focused, transactional experience**. Below is a comparison:

Discord UI	AI Wallet Assistant UI
Built for group chats and channels.	1:1 conversational focus (user ↔ AI).
Complex menus for roles, servers, and bots.	Zero distractions —only commands and transaction confirmations.
Notification overload.	Progressive disclosure: Only critical alerts (e.g., low balance).

Winning UI Inspiration

- **ChatGPT's minimalism + MetaMask's branding**
- **Mobile banking apps** (clean transaction flows)
- **Voice assistants** (e.g., Google Assistant) for guided actions

2. Core UI Requirements

Key Principles

1. **Zero Learning Curve** – Users should immediately know how to interact.
2. **Glanceable Security** – Transaction details must be clear and unambiguous.
3. **MetaMask Integration** – Should feel like a natural extension of the wallet.

UI Components

1. **Command Input Bar**

- Placeholder text: *“What would you like to do? Try ‘Send 0.1 ETH to...’”*
 - Autocomplete for common commands: *“Swap,” “Balance,” “Transaction History”*
 - 2. **Chat History Panel**
 - User messages on the right (purple bubbles).
 - AI responses on the left (gray bubbles, Markdown-supported).
 - Interactive buttons for quick actions (e.g., “Confirm” or “Edit”).
 - 3. **Transaction Summary Modal**
 - Displays recipient address, amount, network, and gas fee.
 - **“Confirm in MetaMask”** button triggers wallet popup.
 - 4. **Tutorial Overlay**
 - First-time user walkthrough: *“Type a command like ‘Show my balance’ to start!”*
 - Persistent help button with an *“Examples”* dropdown.
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3. Wireframes

Desktop & Mobile Views

(Include Figma links or images in final document.)

1. **Connected Wallet State**
 - Top bar: Network indicator, ETH balance, account avatar.
 - Left sidebar (collapsible): Command history and saved templates.
 2. **Transaction Flow**
 - User types *“Send 0.1 ETH to 0x123...”*
 - AI parses command and displays summary:
 - ☒ ****Parsed Command****
 - - ****Action****: Send ETH
 - - ****Amount****: 0.1 ETH (~\$180)
 - - ****Recipient****: 0x123...789 (ENS: ****alice.eth****)
 - - ****Gas Fee****: \$1.20
 - [Confirm in MetaMask] [Edit]
 - Clicking “Confirm” opens MetaMask for signing.
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4. Design System

Visual Identity

- **Primary Color**: MetaMask Orange (#F6851B)
- **Secondary Colors**: Slate (#64748B), Green (#22C55E for success).
- **Typography**:
 - **Inter** (modern, readable).
 - **Roboto Mono** (for wallet addresses/JSON).

Animations & Responsiveness

- Smooth modal transitions.
 - Loading spinner featuring Ethereum logo.
 - **Mobile-first approach** with larger tap targets.
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5. User Flows

Flow 1: First-Time User Onboarding

1. User connects MetaMask.
2. Tutorial overlay provides example commands.
3. Empty chat state suggests: *“Try ‘What’s my balance?’”*

Flow 2: Transaction Error Handling

1. User types invalid command (e.g., sending more ETH than available).
 2. AI responds:
 3. ✖ ****Error****
 4. - Your balance is ****1.0 ETH****.
 5. - Adjust the amount or [Add Funds].
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6. Technical Implementation

Frontend Stack

- **Framework:** Next.js + TypeScript
- **Styling:** Tailwind CSS + Radix UI for accessibility
- **MetaMask SDK Integration**
 - Auto-reconnect on reload.
 - Listen for `disconnect` events to reset UI.

AI Parsing & Performance

- Store common commands in `localStorage` to **reduce API calls**.
 - **Lazy-load chat history** for active users.
 - Optimize images with `next/image`.
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7. PRD Summary

Why This UI Wins

1. **Familiar & Intuitive** – Mimics chat interfaces (WhatsApp, ChatGPT).

2. **Trustworthy** – Aligns with MetaMask’s branding for user confidence.
3. **Hackathon Ready** – The value proposition is clear within **10 seconds**.

Key Differentiators

- **Command Autocomplete** reduces friction.
 - **ENS Integration** (displays names instead of raw addresses).
 - **Progressive Disclosure** (hides advanced options by default).
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8. Final Deliverables

- **GitHub Repository** (MIT License).
 - **2-Minute Loom Demo Video** showcasing:
 1. Wallet connection.
 2. Command → Transaction flow.
 3. Error handling.
 - **Live Demo URL** (Vercel/Netlify).
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This document presents a structured approach for developing a highly intuitive AI Wallet Assistant frontend. **By blending AI-powered command parsing with MetaMask’s transactional capabilities, we create an efficient, frictionless experience for users.**