LOTS Protocol - Frontend Overview

This document presents a general overview of the frontend logic for the LOTS decentralized application (dApp) on BNB Smart Chain.

The frontend is built using React, TypeScript and styled-components, and connects with smart contracts through wagmi and ethers.js. It is designed to provide a smooth and secure user experience for interacting with the LOTS protocol.

No sensitive environment variables, private keys, or API endpoints are included in this document.

Key Frontend Features:

GeoBlocking & Legal Modal

The application enforces jurisdiction-based access control via IP geolocation APIs. Users in restricted countries see a modal blocking interaction.

Legal Disclaimer

Before interacting with the protocol, users must accept a legal disclaimer modal outlining the risks and responsibilities.

Navigation

The navigation bar includes links to: Home, How it Works, Dashboard, Buy Tickets, Distributions, and Admin (for authorized wallets).

Wallet Connection

Uses RainbowKit and wagmi to connect Web3 wallets. Only non-custodial wallets are supported.

Admin Tools

Admin functionality includes triggering cycle start, randomness request, payout distribution, token burning, and sale restarts via signed messages.

Styling

The frontend uses styled-components and is themed for dark mode with yellow highlight elements.

Component Structure

Includes reusable components such as Card, Footer, Navbar, GeoBlock, LegalModal.

Restricted Access Modal

Blocks access from users in OFAC-sanctioned and high-risk jurisdictions (e.g., US, CN, RU, IR, etc.).