NatioID – National Digital Identity & Voting Platform

Comprehensive Project Overview Document

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# 1. Executive Summary

NatioID is a unified digital identity and voting platform designed to modernize national registration, authentication, and electoral processes. The system bridges the gap between citizens and government agencies through secure and user-friendly digital solutions.

# 2. Vision & Objectives

The vision of NatioID is to establish a reliable and transparent identity system enabling digital citizenship and secure participation in elections.

Key Objectives:

* Simplify citizen identification and access to national services.
* Promote transparency and trust in elections.
* Digitally empower citizens and agencies.
* Provide a globally adaptable framework.

# 3. System Overview

NatioID consists of a Web Application and a Mobile Application designed for inclusivity and scalability. Both platforms share consistent UI/UX and ensure accessibility for all users.

# 4. Core Features

* Digital ID registration and citizen profile management.
* Election creation, management, and live result tracking.
* Secure and verifiable voting interface.
* Complaint submission and resolution tracking.
* Language-neutral and country-agnostic structure.
* Role-based access for administrators and citizens.

# 5. Security & Privacy

* Role-based access control.
* Session timeout and screen blur (planned).
* OTP and biometric verification (planned).
* Future integration with encrypted API backend.

# 6. Technical Architecture

* Frontend: React + Vite + Tailwind CSS.
* Mobile: Expo + React Native + NativeWind.
* State Management: Zustand / Context API.
* Routing: React Router / Expo Router.
* Hosting: Vercel (Web) and Expo EAS Build (Mobile).

# 7. Future Roadmap

* Integrate backend API with Node.js or HonoJS.
* Implement biometric verification and facial ID recognition.
* Enable real-time election data streaming.
* Add multi-language localization and country-specific modules.

# 8. Deployment & Accessibility

• Web App: https://natio-id.vercel.app

• Mobile App: https://expo.dev/artifacts/eas/9Mm3k4YvGpyrZudo6t2zfN.aab

# 9. Contact & Collaboration

For partnership, sponsorship, or collaboration inquiries:

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