# 🆔 NatioID – Digital National Identity System

## 1. Project Overview

NatioID is a digital identity and governance platform designed to simplify national registration, election management, and citizen engagement through a unified system.

The solution provides both web and mobile interfaces — allowing governments, administrators, and citizens to interact securely in real-time.

Goals:

- Provide a secure digital ID management platform.

- Enable transparent and efficient election management.

- Offer a citizen portal for services, benefits, and complaints.

- Promote inclusivity and accessibility across platforms.

Target Users:

- Citizens – Register, apply for ID, vote, and manage profiles.

- Administrators – Manage elections, approve applications, and monitor system activity.

- Government Agencies – Access secure dashboards and analytics.

Platforms Supported:

- Web Application: React + Vite.

- Mobile Application: React Native + Expo.

## 2. Core Features

Admin Portal:

- Manage national and regional elections.

- View real-time results and statistics.

- Approve or reject citizen applications.

- Manage administrators and user accounts.

- Handle and respond to complaints.

Citizen Portal:

- Apply for a Digital National ID.

- View or update personal details.

- Participate in elections and view campaigns.

- Submit feedback or complaints.

- Access benefit and application status dashboards.

Mobile App:

- Mirrors core citizen features for Android devices.

- Smooth, responsive UI (Expo Build AAB).

- Offline mode (planned).

## 3. System Structure

apps/web: React + Vite frontend (citizen + admin portal)

apps/mobile: React Native + Expo app

src/app: Routing, pages, layouts

src/components: Shared UI

src/utils: Helper functions

docs: Documentation files

Core Technologies:

- React, Vite, Expo

- Tailwind CSS (web), NativeWind (mobile)

- Zustand / Context API

- React Router

- Recharts (planned)

## 4. Planned Features

| Feature | Status |

|----------|---------|

| OTP / Email Verification | Planned |

| Biometric ID Upload | Planned |

| Multi-language Support | Partially Implemented |

| SMS Notifications | Planned |

| Location-based Election Results | Planned |

| Offline Mode (Mobile) | Planned |

| Screenshot Prevention | Planned |

| Sensitive Data Blur | Planned |

## 5. Security & Privacy

Implemented:

- Secure authentication for admin and citizen portals.

- Input validation and error handling.

- Role-based dashboard access.

Planned:

- Biometric authentication.

- Data encryption (API-level).

- Screenshot blocking and masking sensitive UI components.

## 6. Technical Requirements

- Node.js v18+

- npm or bun

- Expo CLI

- Git

- Internet connection for hosting & testing

## 7. Getting Started

Web App:

cd apps/web

npm install

npm run dev

Mobile App:

cd apps/mobile

npm install

npx expo start

## 8. Demo Links

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

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

## 9. Credits

Developer: Ainfiniti

Technologies: React, Vite, Tailwind CSS, Expo, Zustand

License: MIT

## 10. Acknowledgments

Thanks to open-source contributors and communities that supported NatioID’s development.

Future collaborations are welcome to expand this solution.