

Project Tech Stack Report

ACE-SPED Portal

Frontend:

- Next.js 16.0.7 (React Framework with App Router)
- React 19.2.0 (UI Library)
- Tailwind CSS 4 (Utility-first CSS Framework)
- Lucide React & React Icons (Iconography)
- React Hot Toast (Notifications)

Backend & Database:

- Next.js API Routes (Server Components & Serverless Functions)
- Prisma ORM 5.22.0 (Database Client & Schema Management)
- PostgreSQL (Relational Database System)

Authentication & Security:

- Role-Based Access Control (RBAC)
- bcryptjs (Password Hashing)
- jose (JSON Web Token Implementation)

Utilities & Services:

- TypeScript 5 (Static Typing)
- Resend & Nodemailer (Email Services)
- XLSX (Excel File Processing)
- jsPDF & React-to-Print (Document Generation)