

Next.js Architecture Flow Map

Visual data flow overview for a Next.js App using Mobile/Web clients, Vercel, Neon (Postgres), AWS S3, AWS SES, and GitHub.

Client Layer	Application Layer	Data / Infra Layer
<div>■ Mobile App</div> <div>■ Web App</div>	<div>■■ Next.js (Vercel)</div> <div>API Routes</div> <div>Auth Validation</div> <div>Business Logic</div>	<div>■■ Neon Postgres</div> <div>■ AWS S3</div> <div>✉ ■ AWS SES</div>

Primary Data Flows

1. Client authenticates → Next.js validates session → Neon queried for user/org.
2. File upload request → Next.js issues S3 pre-signed URL → Client uploads directly.
3. File metadata stored in Neon → status updated after upload.
4. Emails triggered from Next.js → sent via AWS SES.
5. Source code pushed to GitHub → deployed automatically to Vercel.