

Hybrid Monorepo Structure

Multiple frameworks in one repo. Shared types and contracts across stacks.

#monorepo

#multi-framework

#polyglot

#typescript

#api

PNG

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Project Directory

platform/

- > **apps/** Mixed framework...
 - > **customer-web/** Next.js custome...
 - src/**
 - package.json
 - next.config.js
 - > **admin-web/** Vue admin dashb...
 - src/**
 - package.json
 - vite.config.ts
 - > **mobile/** React Native app
 - src/**
 - package.json
 - app.json
- > **services/** Backend services
 - > **api-gateway/** Main API (Node)
 - src/**
 - package.json
 - Dockerfile
 - > **auth-service/** Auth microservi...
 - src/**
 - package.json
 - Dockerfile
 - > **worker/** Background jobs...
 - main.go
 - go.mod
 - Dockerfile
- > **packages/** Shared packages
 - > **types/** Shared TypeScri...
 - > **src/**
 - api.ts API contracts
 - package.json
 - > **validators/** Shared validati...
 - > **src/**
 - user.ts
 - package.json
 - > **config/** Shared tooling ...
 - eslint/**
 - tsconfig/**
- > **infrastructure/** IaC and deploym...
 - terraform/**
 - kubernetes/**
 - docker-compose.yml Local dev
 - turbo.json Or nx.json
 - package.json
 - pnpm-workspace.yaml
 - pnpm-lock.yaml
 - .gitignore

Why This Structure?

Real-world platforms often mix frameworks: React for customers, Vue for internal tools, Go for performance-critical workers. Shared **packages/types/** ensures API contracts are consistent. Each app/service deploys independently while sharing validation and types.

Key Directories

- apps/** - Frontend apps (any framework)
- services/** - Backend services (any language)
- packages/types/** - Shared TypeScript contracts
- infrastructure/** - Deployment and IaC configs

Sharing Strategy

- Types** - Share via **@repo/types** package
- Validation** - Zod schemas in **@repo/validators**
- API contracts** - OpenAPI spec or tRPC router
- Config** - ESLint/TSConfig presets

Cross-Stack Sharing

```
# Import shared types in any app
import type { User } from '@repo/types'
import { userSchema } from '@repo/validators'
```

When To Use This

- Platform with multiple user-facing apps
- Microservices needing shared contracts
- Teams with different framework preferences
- Gradual migration between frameworks

Trade-offs

- CI complexity** - Selective builds per service
- Mixed tooling** - Go + Node need different CI steps
- Onboarding** - More technologies to learn