

Remix SPA Mode Project Structure

Client-side SPA with Remix. Deploy to any static host without a server.

#remix #react #typescript #spa #static

PNG

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Project Directory

my-remix-spa/

> **app/**

- root.tsx App shell and p...
- entry.client.tsx SPA entry point
- routes/**
 - _index.tsx
 - about.tsx
 - dashboard.tsx Layout for dash...
 - dashboard._index.tsx
 - dashboard.settings.tsx
 - dashboard.profile.tsx

> **components/**

- ui/**
 - button.tsx
 - input.tsx
 - card.tsx
- layout/**
 - header.tsx
 - nav.tsx

> **lib/**

- api.ts API client func...
- utils.ts
- constants.ts

> **hooks/**

- use-api.ts
- use-auth.ts

> **context/** React context p...

- auth-context.tsx
- theme-context.tsx
- tailwind.css

> **public/**

- favicon.ico
- images/**

- vite.config.ts SPA mode config
- package.json
- tailwind.config.ts
- tsconfig.json
- .env VITE_API_URL
- .gitignore

Why This Structure?

SPA Mode renders entirely on the client—no server required. You get Remix routing, nested layouts, and data patterns while deploying to any static host. Ideal when your backend is a separate API and you want Remix DX without Node.js hosting.

Key Directories

- app/routes/** - Client-side routes with nested layouts
- app/hooks/** - Custom hooks for API calls and state
- app/context/** - React context for global state
- app/lib/api.ts** - API client for external backend

Client Data Loading

Without server loaders, use `clientLoader` for data fetching. It runs on the client and receives the same context. For shared data, fetch in parent layouts and access via `useRouteLoaderData`. Consider React Query or SWR for caching.

Getting Started

```
npx create-remix@latest --template remix-run/remix/ten
cd my-remix-spa
npm run dev
npm run build # Outputs to build/client
```

When To Use This

- Backend is a separate API service
- Deploying to static hosts (Netlify, Vercel static)
- Migrating existing SPAs to Remix routing
- Teams wanting Remix DX without server hosting
- Internal dashboards consuming external APIs

Trade-offs

- No SSR** - Content not available without JavaScript
- No server loaders** - Data fetching on client only
- SEO limitations** - Search engines may not index content

When To Upgrade

- SEO becomes important for the project
- Need server-side auth or sessions
- Want progressive enhancement benefits
- Performance requires server rendering