

Remix Full Stack Project Structure

Complete app with Prisma, sessions, and nested routes. Production-ready architecture.

#remix #react #typescript #prisma #fullstack #auth

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</> Prompt

Project Directory

my-remix-app/

>

📁

app/

📄 root.tsx

📄 entry.client.tsx

📄 entry.server.tsx

>

📁

routes/

📄 _index.tsx

📄 _auth.tsx

Layout route fo...

📄 _auth.login.tsx

📄 _auth.register.tsx

📄 _app.tsx

Layout route fo...

📄 _app.dashboard.tsx

📄 _app.settings.tsx

📄 posts.tsx

Parent layout f...

📄 posts._index.tsx

📄 posts.\$slug.tsx

📄 posts.new.tsx

📄 api.healthcheck.tsx

Resource route

>

📁

components/

>

📁

ui/

📄 button.tsx

📄 input.tsx

📄 card.tsx

>

📁

forms/

📄 login-form.tsx

📄 post-form.tsx

>

📁

layout/

📄 header.tsx

📄 sidebar.tsx

📄 footer.tsx

>

📁

lib/

Shared utilities

📄 db.server.ts

Prisma client

📄 session.server.ts

Cookie sessions

📄 auth.server.ts

Auth helpers

📄 utils.ts

>

📁

models/

Data access lay...

📄 user.server.ts

📄 post.server.ts

📄 tailwind.css

>

📁

prisma/

Database layer

📄 schema.prisma

📄 seed.ts

📁 **migrations/**

>

📁

public/

📄 favicon.ico

📁 **images/**

>

📁

tests/

📄 setup.ts

>

📁

routes/

📄 posts.test.ts

📄 package.json

📄 remix.config.js

📄 tailwind.config.ts

📄 tsconfig.json

📄 .env

DATABASE_URL, S...

📄 .env.example

📄 .gitignore

💡 Why This Structure?

This structure separates concerns clearly: routes handle HTTP, models handle data access, and lib contains shared utilities. The `.server.ts` suffix ensures code only runs server-side. Layout routes (`_auth.tsx` , `_app.tsx`) group related pages with shared UI.

📁 Key Directories

app/routes/_app.* - Protected routes sharing dashboard layout

app/models/ - Data access with `.server.ts` suffix

app/lib/ - Session, auth, and database utilities

prisma/ - Database schema and migrations

Aa Naming Conventions

_auth.tsx - Pathless layout—no URL segment, shared UI

_auth.login.tsx - Child of _auth layout at /login

***.server.ts** - Server-only code, tree-shaken from client

api.*.tsx - Resource routes without UI

✔ Session Auth Pattern

Remix uses cookie-based sessions. Create session in `lib/session.server.ts` with `createCookieSessionStorage`. Protect routes by checking session in the loader and redirecting if not authenticated. This avoids client-side auth complexity.

</> Getting Started

```
npx create-remix@latest --template remix-run/indie-stack
cd my-remix-app
npm run setup # Creates DB and runs migrations
npm run dev
```

☑ When To Use This

- Production web applications
- Apps requiring user authentication
- Content management and CRUD apps
- Teams wanting full-stack TypeScript
- Projects benefiting from progressive enhancement

⚖ Trade-offs

More setup - Database and session configuration required

Server required - Cannot deploy as static site

Learning curve - Nested routes and conventions take time