

so when i build a react frontend should i start with react or should i start with nextjs to build the react compoent and vite, tailwind etc

Short answer: **start with Next.js unless you have a clear reason not to.**

Long answer below 👉

React vs Next.js (what's the real difference?)

- **React** is a *library* → you still need to choose and wire up:
 - routing
 - build tool (Vite)
 - SSR / SEO (if needed)
 - API handling
 - env setup, etc.
- **Next.js** is a *framework built on React* → it gives you:
 - file-based routing
 - server-side rendering (SSR) & static generation
 - API routes
 - built-in optimization
 - production-ready defaults

You still write **normal React components** in Next.js.

Recommended choices (by use case)

✅ **Most projects (especially new ones) → Next.js**

Best default in 2025.

Why

- You still learn React
- Better SEO by default
- Scales from small → large apps

- Used heavily in real-world jobs

Stack example

```
txt


Next.js
Tailwind CSS
TypeScript
(optional) Prisma / tRPC / REST API
```

 Copy code

Create it with:

```
bash

npx create-next-app@latest
```

 Copy code

Tailwind can be added during setup or afterward.

Pure frontend / SPA / learning React fundamentals → Vite + React

Choose this if:

- You're learning React basics
- You're building a dashboard/internal tool
- SEO doesn't matter
- Backend is separate (e.g. REST API)

Stack

```
txt

Vite
React
Tailwind
```

 Copy code

Create it with:

```
bash

npm create vite@latest
```

 Copy code

✗ When not to start with Next.js

- You're brand new to React and want *zero* abstractions
- You explicitly want a client-only SPA
- You're following a React-only course/tutorial

Important misconception to clear up

"Should I build React components first and then move to Next.js?"

✗ No need.

Next.js **is** React. Components you write in Next.js *are* React components and can be reused elsewhere.

Simple decision rule

If this might become a real product, portfolio project, or job-ready app → **Next.js**

If this is purely for learning React basics → **Vite + React**

If you want, tell me:

- your experience level
- what you're building (portfolio, SaaS, game, dashboard, etc.)
- whether SEO matters

and I'll suggest an **exact stack + folder structure** for you.



16 yrs expereince

building portfolio tracker

Portfolio Management Application for Tracking Stocks, ETFs, and Investment Performance

Project Overview:

- **Track multiple investment portfolios**
- **Record buy transactions**
- **Sell transactions** (later)
- **Monitor real-time stock prices**
- **Calculate profile/loss and returns**
- **Visualize portfolio performance over time**
- **Analyze asset allocation and sector distribution**

Architecture:

System Design:

Pattern:

- **Modular Monolith** (evolvable to microservices)

API:

- RESTful with JWT authentication

Frontend:

- React + TypeScript (SPA)

Backend:

- ASP.NET Core 8 Web API

Database:

- PostgreSQL

Caching:

- Redis

Message Queue:

- RabbitMQ

Containerization:

- Docker

Design Principles:

- **Clean Architecture**: Separation of concerns with distinct layers
- **SOLID Principles**: Maintainable and extensible code
- **DRY**: Don't Repeat Yourself
- **KISS**: Keep It Simple, Stupid
- **Security First**: Authentication, authorization, input

validation

- **Test-Driven**: Comprehensive test coverage

mainly in .net .. framework not eve core..

but now ive finsihed building the backend in .net core 8

waiting on building front end, assume i have 0 react knowledge since i have forgotten

and i went with the assumption that i had 0 .net 8 knowledge and .net knowledgte 2 weeks ago and am curently at this satage

Got it — this context helps a lot 👍

Given your **16 years of experience**, strong **backend/.NET background**, and the fact that this is a **serious portfolio tracker (not a toy app)**, here's the **clear, opinionated recommendation** and a **learning + build plan** that fits *how senior engineers actually work*.

The correct choice for *your* project

✅ Use Vite + React + TypeScript (SPA)

Do NOT start with Next.js for this project.

Why this is the right call for you

You already decided:

- SPA ✅
- ASP.NET Core 8 backend
- JWT auth
- REST API
- Portfolio tracker (authenticated, data-heavy, app-like UI)
- SEO **not critical**

Next.js would add:

- SSR you don't need
- App Router mental overhead
- Backend overlap with your existing API
- Slower relearning curve for React itself

For a **financial dashboard-style application**, a **clean SPA** is the industry standard.

Think: Bloomberg Terminal, TradingView, internal fintech dashboards — **all SPAs**

Your ideal frontend stack (battle-tested)

txt

```
Vite
React 18
TypeScript
Tailwind CSS
TanStack Query (server state)
Axios (or fetch wrapper)
React Router
Zod (validation)
Recharts / Nivo (charts)
JWT auth (http-only cookies or memory)
```

 Copy code

This mirrors your backend philosophy:

- Clean separation
 - Explicit boundaries
 - Testable
 - No magic
-

How to relearn React efficiently (senior-engineer approach)

You do **NOT** need beginner tutorials.

You need **mental model + patterns**.

Phase 1 — Core React (2–3 days)

Focus **ONLY** on:

- Functional components
- JSX
- Props
- `useState`
- `useEffect`
- Controlled inputs

Skip:

- ✗ class components
- ✗ Redux
- ✗ Context (for now)

Phase 2 — Real app structure (this is where seniors shine)

Folder structure

```
txt

src/
├─ app/           # App bootstrap
├─ features/      # Vertical slices
│   ├─ portfolios/
│   ├─ holdings/
│   ├─ transactions/
│   └─ auth/
├─ shared/
│   ├─ api/
│   ├─ components/
│   ├─ hooks/
│   ├─ utils/
│   └─ types/
├─ routes/
└─ main.tsx
```

 Copy code

This maps perfectly to **Clean Architecture**.

Critical concept you must learn early (this replaces a lot of React pain)

🔥 TanStack Query (React Query)

This replaces:

- manual `useEffect`
- loading flags
- retry logic
- cache invalidation

Example:

ts

```
const { data, isLoading } = useQuery({
  queryKey: ['portfolio', portfolioId],
  queryFn: () => getPortfolio(portfolioId)
})
```

 Copy code

This aligns closely with:

- Redis caching

 ChatGPT ▾[Log in](#)[Sign up for free](#)

Authentication strategy (important)

Since you're using JWT:

Best approach

- Access token in memory
- Refresh token in http-only cookie
- Axios interceptor for refresh

This avoids:

- ✗ localStorage XSS risks
- ✗ tight coupling to frontend framework

Charts & financial data

Use:

- **Recharts** → simple, fast
- or **Nivo** → more advanced visuals


Examples:

- Portfolio value over time
- Asset allocation (pie)
- Sector distribution

How to start (exact steps)

1 Create the project


bash

 Copy code

```
npm create vite@latest portfolio-ui -- --template react-ts
cd portfolio-ui
npm install
```

2 Add Tailwind


bash

 Copy code

```
npm install -D tailwindcss postcss autoprefixer
npx tailwindcss init -p
```

3 Add core libs

bash

 Copy code

```
npm install axios @tanstack/react-query react-router-dom zod
```

What NOT to do (common trap)

- ✗ Don't over-abstract early
- ✗ Don't build a custom state manager
- ✗ Don't use Redux "because enterprise"
- ✗ Don't prematurely optimize renders

You already do this correctly on the backend — same rules apply.

Mental shift from .NET → React

.NET Backend	React Frontend
Controllers	Components
Services	Hooks
DTOs	View Models
Middleware	Interceptors

.NET Backend**React Frontend**



DI

Composition

Once you see this mapping, React becomes *very boring* (in a good way).

Bottom line

For your exact situation:

-  Vite + React + TS
 -  Next.js (save it for marketing sites / SEO apps)
 - Build vertically, feature-by-feature
 - Treat React as a **view layer**, not a framework
-

If you want, next I can:

- Design your **frontend clean architecture**
- Map your **existing .NET endpoints** → **React queries**
- Create a **starter repo structure**
- Walk you through **auth + refresh tokens**

Just tell me which one you want first.

