React

The Official Roadmap

The Prerequisites

Learning React is a great choice for Front-end Developers due to it's large community and popularity in the industry, however, you need to understand that React is not a technology for absolute beginners, so here is what you will need to know:

Basic HTML

Common Tags
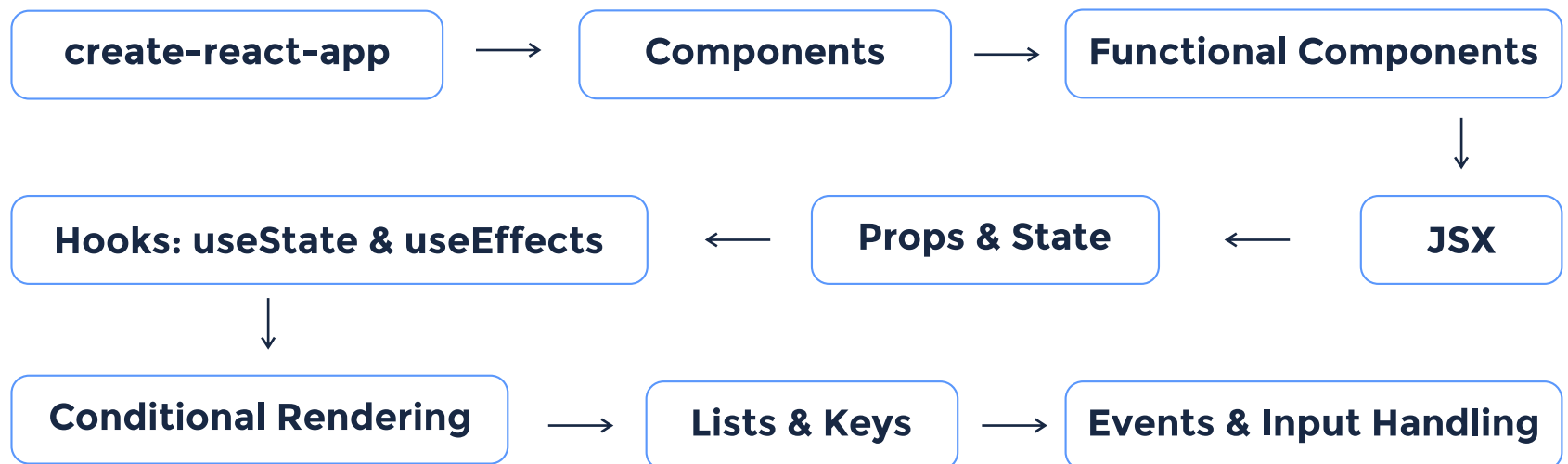Attributes
File Structure

BASIC CSS

Applying Styles
Flexbox Layouts
Media Queries

Good knowledge of Javascript

Variables (let, const)
Loops & Conditionals
Arrow Functions
Arrays, Objects
Imports and Exports
How to use NPM
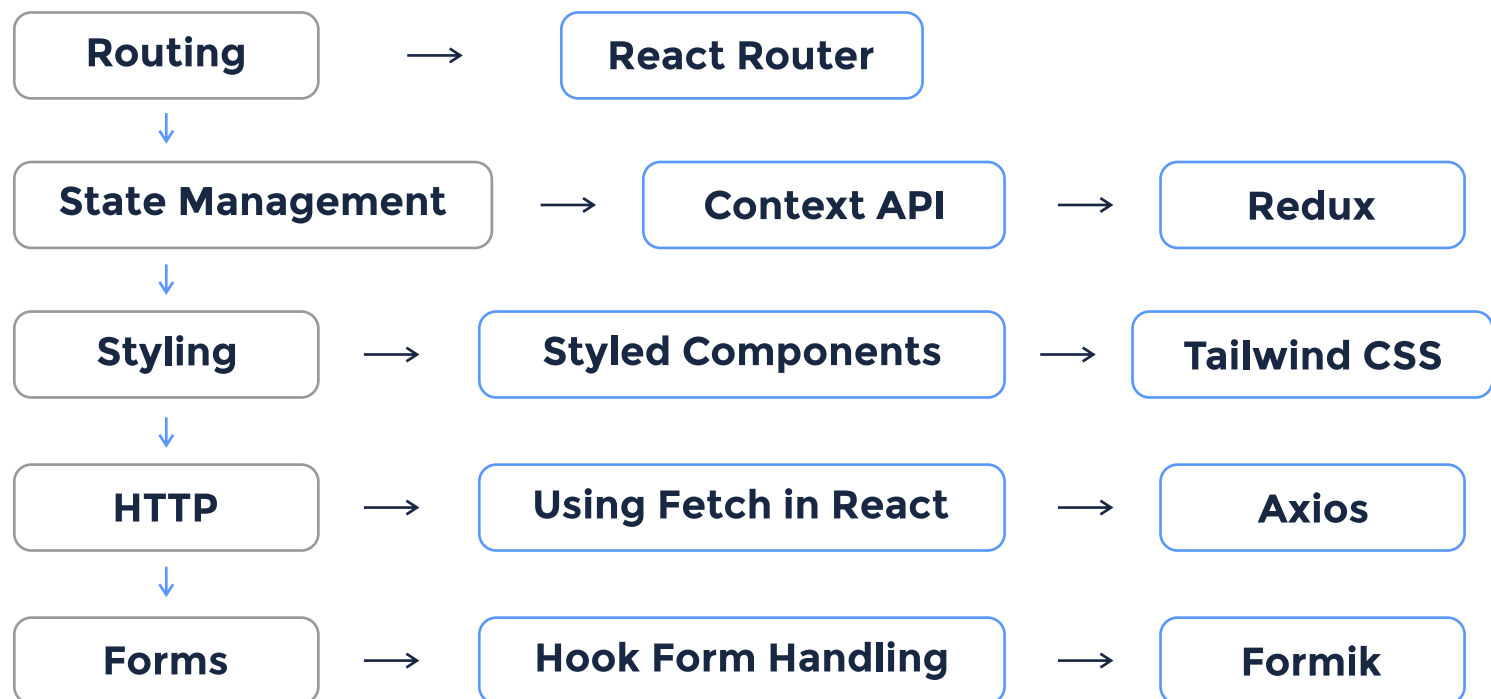
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The First Steps

Spend time to understand the base concepts of React apps, learn how to create a simple application, study the folder structure and the concept of components, your path:

```
┌──────────────────┐     ┌──────────────┐     ┌──────────────────────┐
│ create-react-app │ ──→ │  Components  │ ──→ │ Functional Components│
└──────────────────┘     └──────────────┘     └──────────────────────┘
                                                          │
                                                          ↓
┌───────────────────────────────┐   ┌──────────────┐   ┌─────┐
│ Hooks: useState & useEffects  │←──│ Props & State│←──│ JSX │
└───────────────────────────────┘   └──────────────┘   └─────┘
        │
        ↓
┌────────────────────────┐     ┌──────────────┐     ┌──────────────────────────┐
│ Conditional Rendering  │ ──→ │ Lists & Keys │ ──→ │ Events & Input Handling  │
└────────────────────────┘     └──────────────┘     └──────────────────────────┘
```

Follow the path and make sure to practice what you see, not just watch. Next, let's learn about the React Ecosystem.
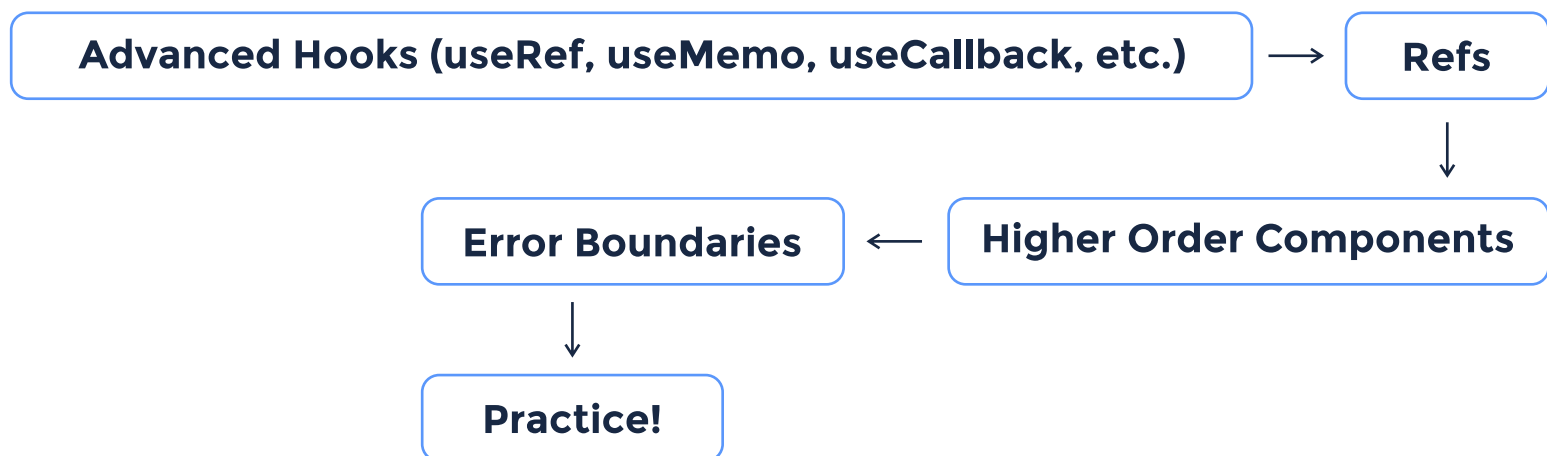
The React Ecosystem

Since React is only a library and not a framework, you will need to work with various other libraries to build complete apps, here is the path totake:

Routing	→	React Router

State Management	→	Context API	→	Redux

Styling	→	Styled Components	→	Tailwind CSS

HTTP	→	Using Fetch in React	→	Axios

Forms	→	Hook Form Handling	→	Formik

Follow the path and make sure to practice what you see, not just watch. Next, let's learn about the React Ecosystem.

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The Advanced Topics

If you think you mastered the basics, you should move on to learning these topics:

Advanced Hooks (useRef, useMemo, useCallback, etc.) → Refs

Error Boundaries ← Higher Order Components

Practice!

Now it's time to practice and build some amazing projects and add them to your portfolio to impress!