3 - Modern React Project

React education, 2024.

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Overview

- React project bootstrap

- Project development

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Project bootstrap

Create a React App

- In order to create React App you will need to have development environment which consists of *Node* and *npm*

- Check you version by executing following in your terminal (Node.js 18+):

    ▸ *node -v*

    ▸ *npm -v*

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Create a React App

- Several different ways how you can create a React App:

  ‣ Manual setup with compiler and bundler

  ‣ CRA - create-react-app

  ‣ Vite

  ‣ Nx

  ‣ React Meta frameworks - Next.js, Remix, Gatsby, Astro

  ‣ StackBlitz - instant developer environment, zero config (not for real production projects)

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Create a React App

- We will use **Vite** to scaffold our project

- We will use **pnpm** as a package manager - check <u>installation manual</u>.

- To create a project, run the following in the terminal:

```
pnpm create vite
```

- Then follow the prompts and instructions!

- Installing project dependencies: `pnpm install`

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Project development

Project development

- We'll create a small React application which will consist of the latest best practices and trends in the React ecosystem.

- Some of the tools which we'll use:

  ‣ Biome - linter and formatter

  ‣ Tailwindcss & shadcn/ui - UI design and layout

  ‣ TanStack Query, Zustand - State management

  ‣ Axios - HTTP client

  ‣ React Hook Form & Zod - Form management

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