Workshop Technology

JavaScript Frameworks

What is a framework?

- A framework is a library that offers opinions about how software gets built.
- These opinions allow for predictability and homogeneity in an application.
 - Predictability allows software to scale to an enormous size and still be maintainable.
 - Predictability and maintainability are essential for the health and longevity of software.

Vanilla JS or Framework?

- Vanilla JS
 - A less complex site, for example a personal to-do list or a site that displays mostly static content
- Framework
 - A large site with a complex UI. Frameworks provide solutions to common problems that would take an absurd amount of time and patience to implement with pure JavaScript.

Stack-Overflow survey 2023

https://survey.stackoverflow.co/2023/#section-most-popular-technologies-web-frameworks-and-technologies

React

Get started with react (1)

- pnpm create vite
 - Project name: vite-project
 - Select a framework: React
 - Select a variant: JavaScript + SWC

Get started with react (2)

- cd vite-project
- pnpm install
- code . -r
- pnpm run dev

Customization (1)

- Title
 - Change this line in index.html.

<title>My very cool title</title>

Customization (2)

- Favicon
 - https://www.favicongenerator.io/
 - Make favicon and download.
 - © Extract favicon.svg into public folder
 - Change this line in index.html.

```
<link rel="icon" type="image/svg+xml" href="/favicon.svg" />
```

Reset

- Clear content in src/index.css and src/app.css
- Replace src/App.jsx with

```
function App() {
  return <></>;
}
export default App;
```

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Styling

• Add the following line at the top of src/App.jsx

```
import "./App.css";
```

You can now type CSS in src/App.css

Build

• pnpm run build

Preview

• npm run preview

Deploy

Deploy ./dist folder to Netlify.

Telegram message sender

- Get code by asking Cloude
 - "Write a react application that can send message to Telegram using TailwindCSS and no component library."
- pnpm install lucide-react
- Remove import './index.css' in main.jsx
- Add following in index.html

```
<script src="https://cdn.tailwindcss.com"></script>
```

- You might need to add proxy server.
 - https://cors.iecmu.com