CHAPTER 1

History of React

Created by: FacebookInitial Release: 2013

• Original Purpose: To improve Facebook's newsfeed performance

• Current Usage: Widely adopted for building user interfaces, particularly single-page

applications

What is React?

- React is a JavaScript library for building user interfaces.
- It's used for creating reusable UI components.
- React is maintained by Facebook and is widely used in the industry.

Key Features and Benefits

- Component-Based: Build encapsulated components that manage their own state
- **Declarative:** Describe what you want, and React will handle the updates
- Reusable Components: Write once, use anywhere
- Large Ecosystem: Many libraries and tools available
- **JSX:** A syntax extension for JavaScript that allows you to write HTML-like code in your JavaScript files.
- State: The data that changes within a component.
- **Props:** Short for "properties", props are immutable values passed from a parent component to a child component.
- **Virtual DOM:** A lightweight in-memory representation of the real DOM, used for efficient rendering.

Setting up a Development Environment

- 1. Node.js and npm:
 - 1.1. Download: Node.js Download
 - 1.2. Ensure Node.js and npm are installed
- 2. Two method to create react app:
 - 2.1. Create React App:

Run command in terminal npx create-react-app my-app

Navigate to the project folder: cd my-app

Start Development Server:

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Run **npm start**

Open http://localhost:3000 in a browser

OR

2.2. Using Vite:

Run npm create vite@latest

Enter project name i.e my-app

Navigate to the project folder: cd my-app

Install dependencies: npm install

Start Development Server:

Run **npm run dev**

Open http://localhost:5173 in a browser

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