



CodeChefVIT

Mastering React: From Basics to Brilliance

Anand Rajaram



Agenda

- Introduction
- What is a Web Application
- Components of a Web App
- What is React
- Why React over Vanilla JS
- Prerequisites
- Hands on Session



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Introduction

- React
- Tailwind
- Fetching Data from APIs

What is a web application

Web applications run on servers and are accessed through browsers.

Users interact with web apps through a user interface (UI).

Examples: social media platforms, online shopping websites.



Components of a web app

Frontend: User-facing part of the web app.

Backend: Handles server-side logic and database management.

Frontend and backend communicate to provide a seamless user experience.



What is React

React is a JavaScript library for building user interfaces.

It allows you to create reusable UI components.

React follows a component-based architecture.



Why React?

React offers component reusability, reducing code duplication.

React's virtual DOM enhances performance by minimising direct manipulation of the actual DOM.

React's declarative syntax makes it easier to describe UI at any given point.



Prerequisites



Basic knowledge of HTML, CSS, and JavaScript.

Familiarity with web development concepts.

Text editor or integrated development environment (IDE).

Node.js and npm (Node Package Manager) installed.

Resources



<https://tailwindcss.com/docs/guides/vite>

<https://react.dev/learn>

<https://jsonplaceholder.typicode.com/guide/>

<https://www.dicebear.com/how-to-use/js-library>



Hands on Session

To Start Coding

Open a new tab, and open up

<https://vite.new/react>