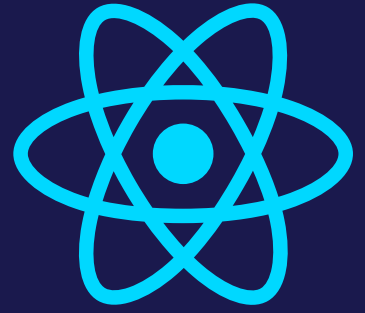


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01

Introduction

- **Concept:** Introduce React.js, discuss its advantages over other frameworks, and explain the course project's goal.
- **Project Step:** Set up the development environment, install necessary tools like Node.js, npm, and create a new React project using Vite.

JSX and Components -
Part 1

- **Concept:** Explain JSX syntax, and demonstrate creating basic components.
- **Project Step:** Start building the app layout by creating reusable header and footer components.

02

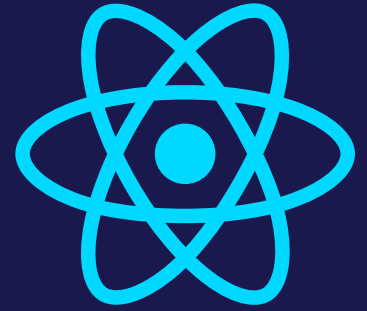
03

JSX and Components -
Part 2

- **Concept:** Discuss how components can be connected, and introduce props and states for managing data.
- **Project Step:** Create a static tweet component showcasing a sample tweet.

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04

4: Working with Forms -
Part 1

- **Concept:** Explain how to render lists of data in React.
- **Project Step:** Display a list of static tweets on the main page using the tweet component from the previous class.

Working with Forms -
Part 2

- **Concept:** Discuss controlled components and form validation techniques.
- **Project Step:** Implement forms for user sign-up and posting new tweets, ensuring proper validation is in place.

05

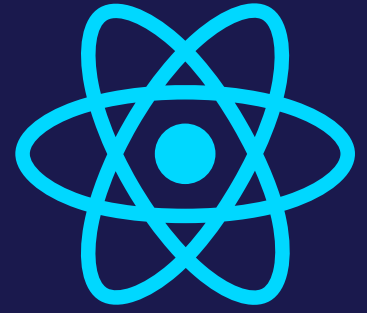
06

Working with Forms -
Part 3

- **Concept:** Delve into conditional rendering techniques in React.
- **Project Step:** Display different UI elements based on the user's authentication state.

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07

Working with APIs - Part 1

- **Concept:** Introduction to APIs, fetching data from an API.
- **Project Step:** Setup a mock API, fetch and display a list of tweets.

Working with APIs - Part 2

- **Concept:** Handling asynchronous operations using promises and `async/await`.
- **Project Step:** Implement loading states during data fetch.

08

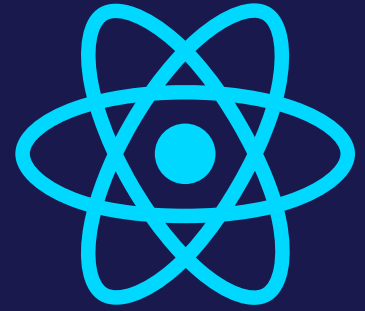
09

Working with APIs - Part 3
(Authentication)

- **Concept:** Setting up authentication
- **Project Step:** Integrating authentication via OAuth

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10

Working with APIs - Part 4
(Error Handling)

- Concept: Error handling during API interactions.
- Project Step: Implement error handling for failed API requests.

Routing and Navigation -
Part 1

- Concept: Introduction to routing in React using React Router.
- Project Step: Setup basic routing for different views, enabling navigation between different sections of the app.

11

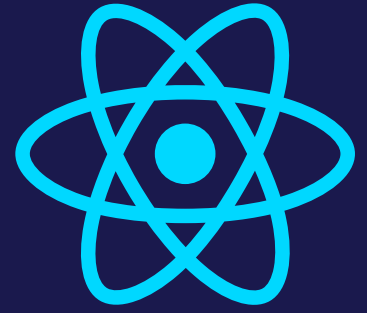
12

Routing and Navigation -
Part 2

- Concept: Creating a 404 page and simple routes.
- Project Step: Implement additional routes and a 404 page.

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Routing and Navigation
- Part 3

- Concept: Error handling during API interactions.
- Project Step: Implement error handling for failed API requests.

Styling in React - Part 1

- Concept: Styling basics: inline styles and CSS modules.
- Project Step: Style basic components of the application.

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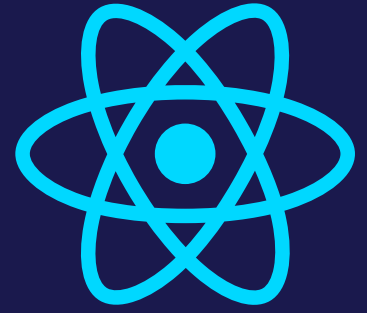
15

Styling in React - Part 2

- Concept: Advanced styling: CSS-in-JS and styled-components.
- Project Step: Further styling and creating a consistent theme.

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16

Styling in React - Part 3

- Concept: Utilizing 3rd party frameworks like TailwindCSS.
- Project Step: Refine the app's styles using TailwindCSS.

Course Catchup

- Concept: Styling basics: inline styles and CSS modules.
- Project Step: Style basic components of the application.

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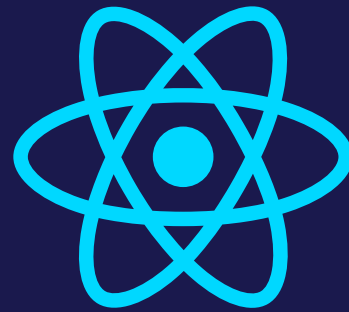
18

State Management with
Redux - Part 1

- Concept: Understanding Redux, core principles, benefits
- Project Step: Setting up Redux for state management, beginning with the installation and basic configuration.

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State Management with
Redux - Part 2

- Concept: Understanding React redux and using it in basic project

State Management with
Redux - Part 3

- Concept: Connecting React components to Redux.
- Project Step: Enhance components to read from and dispatch actions to the Redux store.

20

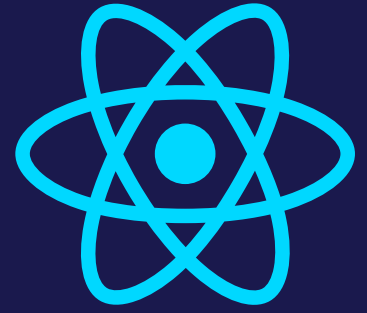
21

Escape Hatches
(Advanced) - Part 1

- Concept: Introduction to React Refs.Manipulating the DOM with refs.

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Introducing Nextjs

- Concept: Getting familiar with Nextjs

Course Catchup

- Making sure we are making progress according to the outline.

23

24

Project Presentation

- Concept: Course wrap-up and project presentations.
- Project Step: Students present their projects, receive feedback, and celebrate their accomplishments.

IN COLLABORATION WITH

