1. ReactJS-HOL

1. Define SPA (Single-Page Application) and Its Benefits

SPA (Single-Page Application) is a web application that dynamically rewrites the current page with new data from the web server, instead of loading entire new pages.

Benefits of SPA:

- ✅ **Faster Navigation**: Only data is fetched, not full HTML pages.
- ✅ **Improved User Experience**: Feels more like a desktop app.
- ✅ **Reduced Server Load**: Only API requests are made.
- ✅ **Efficient Caching**: Once loaded, resources can be reused.

2. Define React and Identify Its Working

React is a JavaScript library developed by Facebook for building user interfaces, especially for SPAs. It allows developers to build reusable UI components.

How React Works:

- React maintains a **virtual DOM**.
- When data changes, React:
    1. Re-renders the component virtually.
    2. Compares the virtual DOM with the real DOM (diffing).
    3. Applies only the changes (patching) to the real DOM.
- This results in **fast updates** and **efficient rendering**.

3. Identify the Differences Between SPA and MPA

Feature	SPA	MPA (Multi-Page Application)
Page Reload	No full reload	Full reload on every navigation
Performance	Fast after initial load	Slower due to full page reloads
Development	Frontend-heavy (API-based)	Backend-heavy (renders full pages)
URL Handling	Managed by JavaScript (History API)	Native browser navigation
SEO	Harder (needs SSR or prerender)	Easier due to server-rendered HTML
Examples	Gmail, Facebook, Twitter	Amazon, Wikipedia, e-commerce sites

4. Explain Pros & Cons of Single-Page Application

Pros:

- Fast and responsive user experience.
- Smooth transitions and animations.
- Reduces server load (only APIs hit).
- Reusable frontend code.

Cons:

- Initial load can be heavy.
- SEO optimization is more complex.
- Browser history and navigation issues if not handled properly.
- Security risks like XSS if not managed well.

5. Explain About React

React is a declarative, component-based library used for building dynamic web interfaces. It encourages building encapsulated components that manage their own state and compose them to make complex UIs.

- Developed by **Facebook**.
- Open-source and widely used.
- Enables **one-way data binding** and **component-based architecture**.
- Works well with tools like Redux, React Router, etc.

6. Define Virtual DOM

Virtual DOM is a lightweight, in-memory representation of the real DOM.

Purpose:

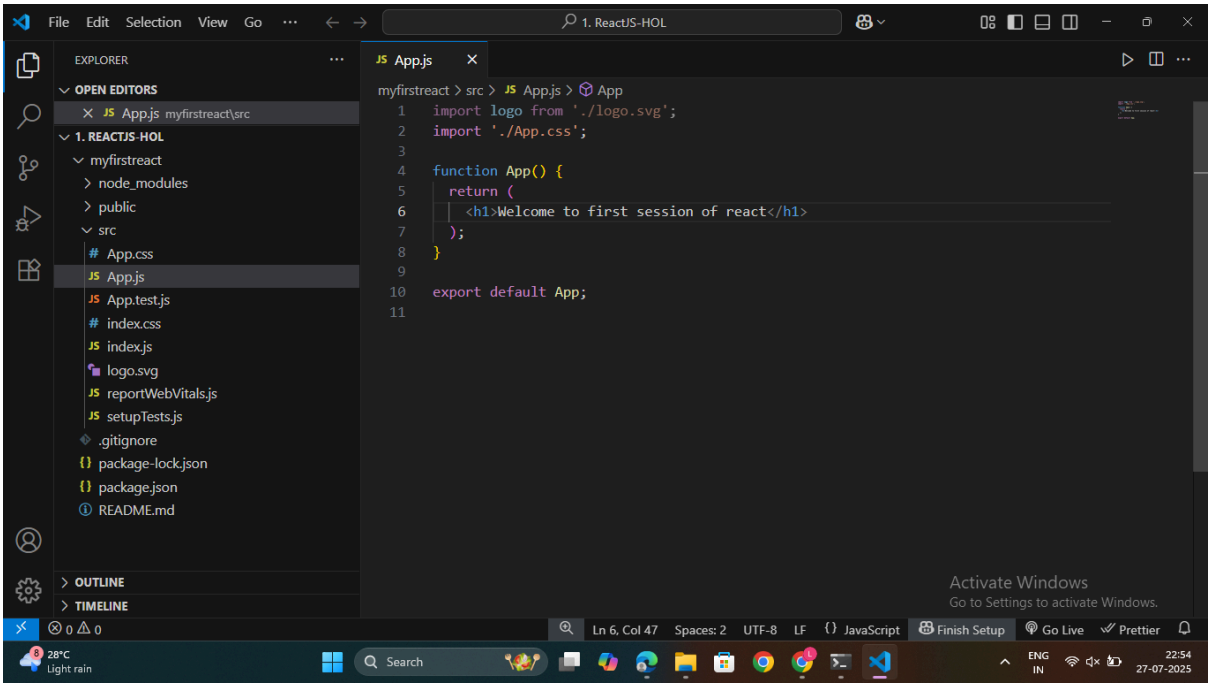
- React uses it to detect what exactly changed in the UI.
- It compares the current virtual DOM with the previous version (diffing).
- Then updates the real DOM selectively (patching).

This approach increases performance and efficiency of UI updates.

7. Explain Features of React

Key Features:

1. **JSX (JavaScript XML)** – Allows writing HTML-like syntax inside JavaScript.
2. **Component-Based Architecture** – Reusable and modular components.
3. **Virtual DOM** – Efficient rendering.
4. **One-Way Data Binding** – Predictable and controlled data flow.
5. **Hooks** – Functional components with state and side effects.
6. **High Performance** – Minimal DOM manipulation.
7. **Strong Community & Ecosystem** – Lots of libraries and tools.


File Edit Selection View Go
1. ReactJS-HOL
EXPLORER
OPEN EDITORS
App.js myfirstreact\src
1. REACTJS-HOL
myfirstreact
node_modules
public
src
App.css
App.js
App.test.js
index.css
index.js
logo.svg
reportWebVitals.js
setupTests.js
.gitignore
package-lock.json
package.json
README.md
OUTLINE
TIMELINE
myfirstreact > src > App.js > App
import logo from './logo.svg';
import './App.css';
function App() {
return (
<h1>Welcome to first session of react</h1>
);
}
export default App;
Activate Windows
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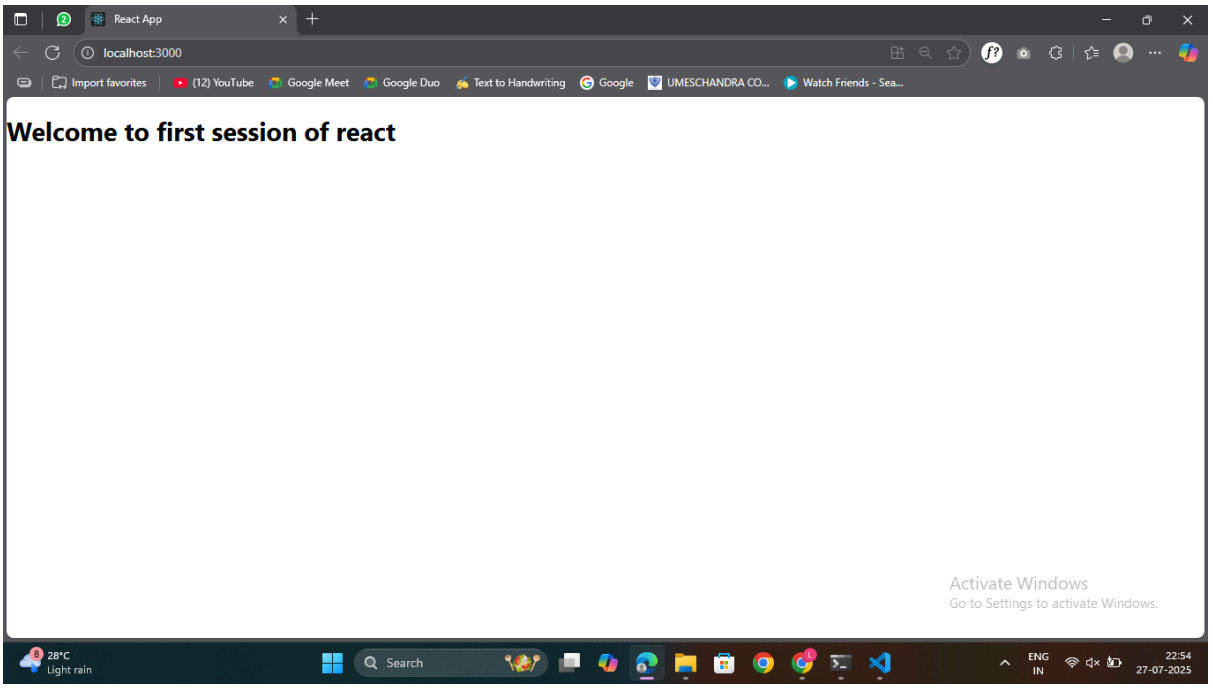
React App
localhost:3000
Import favorites
(12) YouTube
Google Meet
Google Duo
Text to Handwriting
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Welcome to first session of react
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2. ReactJS-HOL

1. Explain React Components

React components are the building blocks of a React application. Each component represents a part of the UI and can be reused across the app.

A component:

- Can be a **function or a class**
- Accepts **props** (input)
- Returns **JSX** (UI)

2. Differences Between Components and JavaScript Functions

Feature	JavaScript Function	React Component
Purpose	General logic and calculations	Defines a piece of UI
Returns	Any value (number, string, object)	JSX (or `null`)
Used With JSX	No	Yes
Lifecycle Methods	No	Yes (Class Components)
React Hooks Support	No	Yes (Function Components)

3. Identify the Types of Components

There are **two main types** of React components:

1. **Class Components**
2. **Function Components**

4. Explain Class Component

A **class component** is a JavaScript ES6 class that extends `React.Component`.

Structure:

```
import React, { Component } from 'react';

class Welcome extends Component {
  constructor(props) {
    super(props);
    this.state = { message: "Hello" };
  }

  render() {
    return <h1>{this.state.message}, {this.props.name}</h1>;
  }
}
```

Key Features:

- Has a **constructor** to set up `state`
- Must define a **render()** method to return JSX
- Can use **lifecycle methods** like `componentDidMount`, `componentDidUpdate`, etc.

5. Explain Function Component

A **function component** is a simple JavaScript function that returns JSX.

Structure:

```
function Welcome(props) {
  return <h1>Hello, {props.name}</h1>;
}
```

Features:

- Simpler and shorter syntax
- Can use **React Hooks** (e.g., `useState`, `useEffect`)
- No need for `this` keyword

6. Define Component Constructor

The **constructor** is a special method in **class components** used to:

- Initialize **state**
- Bind methods to the component

Example:

```
constructor(props) {
  super(props);
  this.state = { count: 0 };
}
```

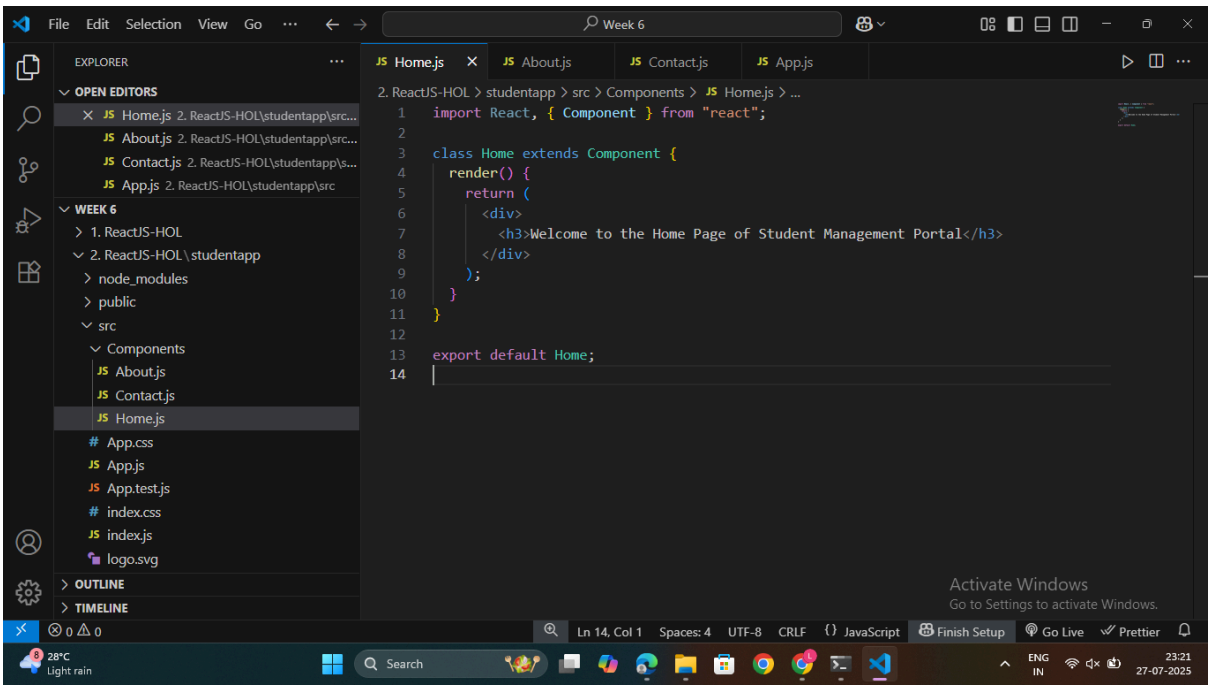
7. Define `render()` Function

The `render()` method is **required** in every class component.

- It returns the **JSX** to display on the screen.
- Called automatically when the component is rendered or updated.

Example:

```
render() {
  return <div>Hello, {this.props.name}</div>;
}
```



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EXPLORER

OPEN EDITORS
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- About.js 2. ReactJS-HOL\studentapp\src...
- Contact.js 2. ReactJS-HOL\studentapp\s...
- App.js 2. ReactJS-HOL\studentapp\src

WEEK 6
- 1. ReactJS-HOL
- 2. ReactJS-HOL\studentapp
  - node_modules
  - public
  - src
    - Components
      - About.js
      - Contact.js
      - Home.js
    - App.css
    - App.js
    - App.test.js
    - index.css
    - index.js
    - logo.svg

OUTLINE

TIMELINE

Home.js | About.js | Contact.js | App.js

2. ReactJS-HOL > studentapp > src > Components > About.js > ...

```
import React, { Component } from "react";

class About extends Component {
  render() {
    return (
      <div>
        <h3>Welcome to the About Page of Student Management Portal</h3>
      </div>
    );
  }
}

export default About;
```

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- Contact.js 2. ReactJS-HOL\studentapp\s...
- App.js 2. ReactJS-HOL\studentapp\src

WEEK 6
- 1. ReactJS-HOL
- 2. ReactJS-HOL\studentapp
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  - public
  - src
    - Components
      - About.js
      - Contact.js
      - Home.js
    - App.css
    - App.js
    - App.test.js
    - index.css
    - index.js
    - logo.svg

OUTLINE

TIMELINE

Home.js | About.js | Contact.js | App.js

2. ReactJS-HOL > studentapp > src > Components > Contact.js > ...

```
import React, { Component } from "react";

class Contact extends Component {
  render() {
    return (
      <div>
        <h3>Welcome to the Contact Page of Student Management Portal</h3>
      </div>
    );
  }
}

export default Contact;
```

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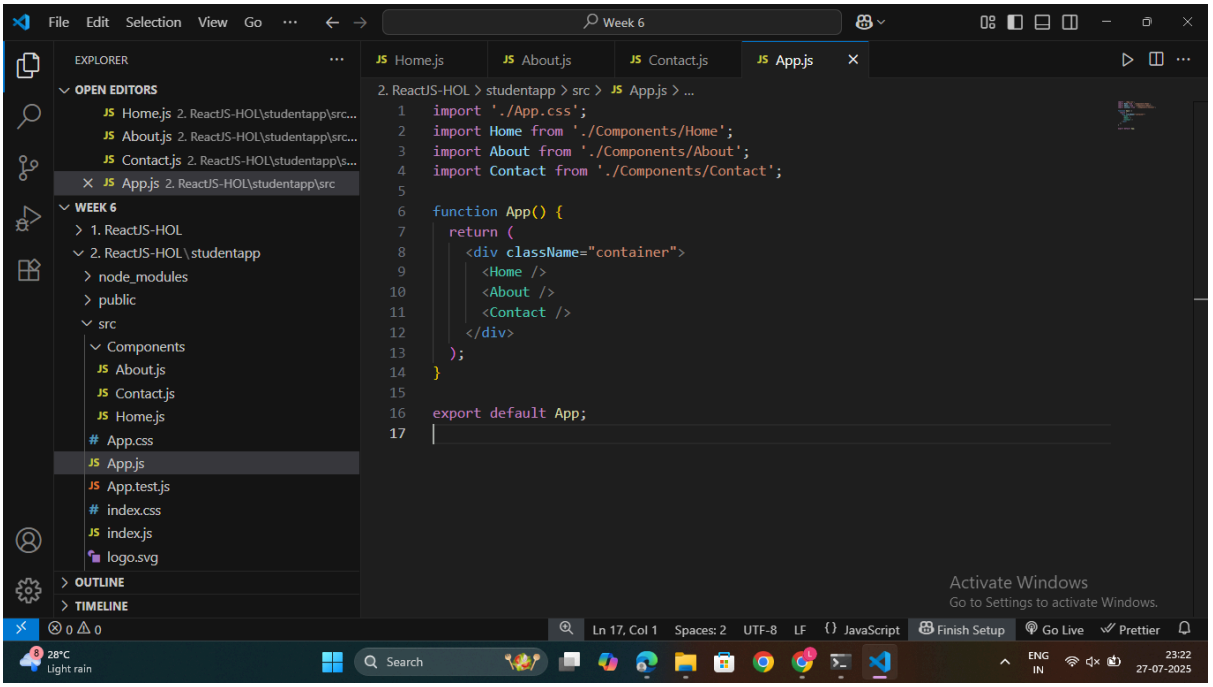
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Week 6
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WEEK 6
1. ReactJS-HOL
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About.js
Contact.js
Home.js
App.css
App.js
App.test.js
index.css
index.js
logo.svg
OUTLINE
TIMELINE
Home.js
About.js
Contact.js
App.js
2. ReactJS-HOL > studentapp > src > App.js > ...
import './App.css';
import Home from './Components/Home';
import About from './Components/About';
import Contact from './Components/Contact';
function App() {
return (

<Home />
<About />
<Contact />

);
}
export default App;
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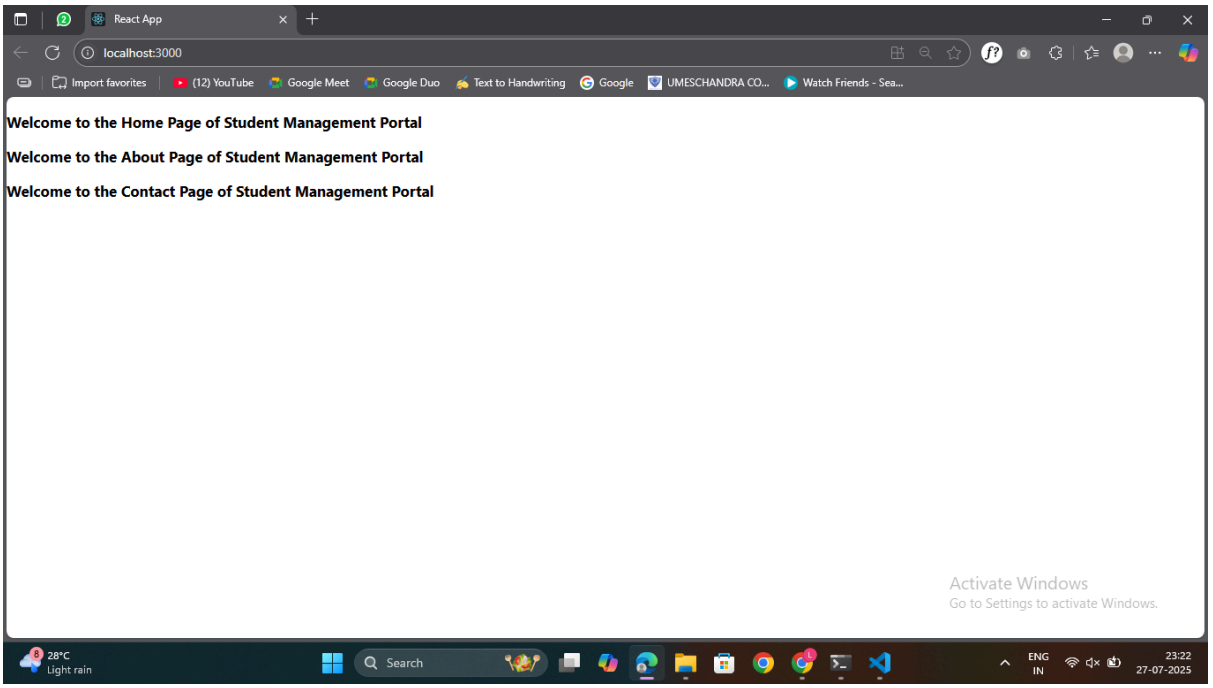
React App
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Import favorites
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Google Meet
Google Duo
Text to Handwriting
Google
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Welcome to the Home Page of Student Management Portal
Welcome to the About Page of Student Management Portal
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Activate Windows
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3. ReactJS-HOL

1. Explain React Components

React components are the core building blocks of a React application. They are independent, reusable pieces of UI. Each component returns a portion of JSX that describes how a section of the UI should appear.

Think of them like custom HTML elements:

```
<Header />, <Footer />, <Profile />
```

2. Differences Between Components and JavaScript Functions

Feature	JavaScript Function	React Component
Purpose	Perform logic or return values	Build UI using JSX
Return Type	Any data (string, number, object)	JSX (UI code)
Used in React	No	Yes
Lifecycle Methods	No	Yes (in class components)
Hooks Usage (e.g. useState)	No	Yes (in function components)

3. Types of Components in React

There are **two types** of components:

1. **Class Components**
2. **Function Components**

4. Explain Class Component

A **class component** is a JavaScript ES6 class that extends `React.Component`.

Example:

```
import React, { Component } from 'react';

class Welcome extends Component {
  render() {
    return <h1>Hello, {this.props.name}</h1>;
  }
}
```

Key Features:

- Has access to **state** and **lifecycle methods** (`componentDidMount`, `componentDidUpdate`, etc.)
- Requires a **render()** method that returns JSX
- Uses `this.props` and `this.state`

5. Explain Function Component

A **function component** is a simpler way to write components using plain JavaScript functions.

Example:

```
function Welcome(props) {
  return <h1>Hello, {props.name}</h1>;
}
```

Key Features:

- Shorter and cleaner syntax
- Can use **Hooks** (e.g. `useState`, `useEffect`) to manage state and side effects
- No need for `this` keyword

6. Define Component Constructor

The **constructor** is used only in **class components**. It initializes **state** and binds methods.

Example:

```
constructor(props) {
  super(props);
  this.state = { message: "Hello" };
}
```

- `super(props)` is required to use `this.props`
- You can also bind event handlers here

7. Define `render()` Function

The `render()` method is **mandatory** in class components. It defines **what should be displayed** on the screen.

Example:

```
render() {
  return (
    <div>
      <h2>Welcome to React!</h2>
    </div>
  );
}
```

It gets called **automatically** when:

- The component is first rendered
- `state` or `props` change

File Edit Selection View Go ··· Week 6

EXPLORER

OPEN EDITORS
- CalculateScore.js 3. ReactJS-HOL\score...
- mystyle.css 3. ReactJS-HOL\scorecalcula...
- App.js 3. ReactJS-HOL\scorecalculatorap...

WEEK 6
- 1. ReactJS-HOL
- 2. ReactJS-HOL
- 3. ReactJS-HOL \ scorecalculatorapp
  - node_modules
  - public
  - src
    - Components
      - CalculateScore.js
    - Stylesheets
      - mystyle.css
    - App.css
    - App.js
    - App.test.js
    - index.css
    - index.js
    - logo.svg

OUTLINE

TIMELINE

CalculateScore.js | mystyle.css | App.js

3. ReactJS-HOL > scorecalculatorapp > src > Components > CalculateScore.js > default

```
export const CalculateScore = ({ Name, School, total, goal }) => (
      <span>{School}</span>
    </div>

    <div className="Total">
      <b><span>Total: </span></b>
      <span>{total}</span>
    </div>

    <div className="Score">
      <b>Score:</b>
      <span>
        {calcScore(total, goal)}
      </span>
    </div>
  </div>
);
export default CalculateScore;
```

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EXPLORER

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- App.js 3. ReactJS-HOL\scorecalculatorap...

WEEK 6
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- 2. ReactJS-HOL
- 3. ReactJS-HOL \ scorecalculatorapp
  - node_modules
  - public
  - src
    - Components
      - CalculateScore.js
    - Stylesheets
      - mystyle.css
    - App.css
    - App.js
    - App.test.js
    - index.css
    - index.js
    - logo.svg

OUTLINE

TIMELINE

CalculateScore.js | mystyle.css | App.js

3. ReactJS-HOL > scorecalculatorapp > src > Stylesheets > mystyle.css > ...

```
.Name {
  font-weight: 300;
  color: blue;
}

.School {
  color: crimson;
}

.Total {
  color: darkmagenta;
}

.formatstyle {
  text-align: center;
  font-size: large;
}

.Score {
  color: forestgreen;
}
```

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OPEN EDITORS
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- mystyle.css 3. ReactJS-HOL\scorecalcula...
- App.js 3. ReactJS-HOL\scorecalculatorap...

WEEK 6
- 1. ReactJS-HOL
- 2. ReactJS-HOL
- 3. ReactJS-HOL\scorecalculatorapp
  - node_modules
  - public
  - src
    - Components
      - CalculateScore.js
    - Stylesheets
      - mystyle.css
    - App.css
    - App.js
    - App.test.js
    - index.css
    - index.js
    - logo.svg

OUTLINE

TIMELINE

CalculateScore.js | mystyle.css | App.js

3. ReactJS-HOL > scorecalculatorapp > src > App.js > ...

```
import { CalculateScore } from './Components/CalculateScore';

function App() {
  return (
    <div>
      <CalculateScore
        Name={"Steeve"}
        School={"DNV Public School"}
        total={284}
        goal={3}
      />
    </div>
  );
}

export default App;
```

Activate Windows
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React App

localhost:3000

Import favorites | (12) YouTube | Google Meet | Google Duo | Text to Handwriting | Google | UMESCHANDRA CO... | Watch Friends - Sea...

Student Details:

Name: Steeve
School: DNV Public School
Total: 284
Score:94.67%

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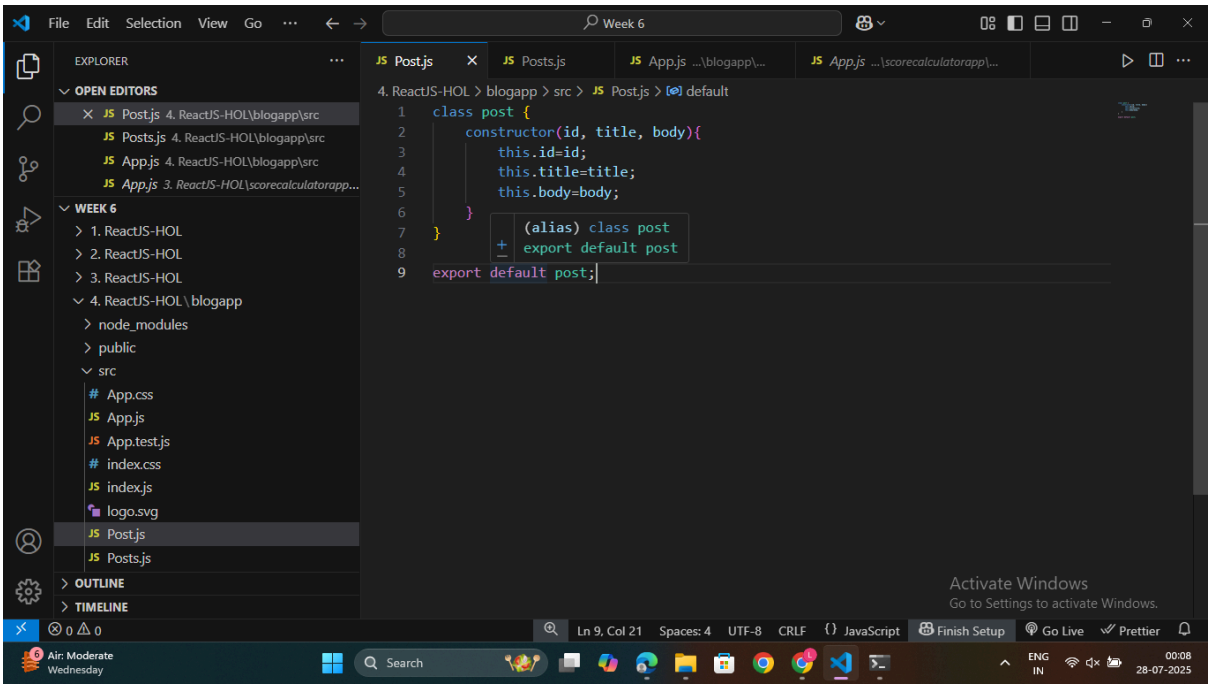
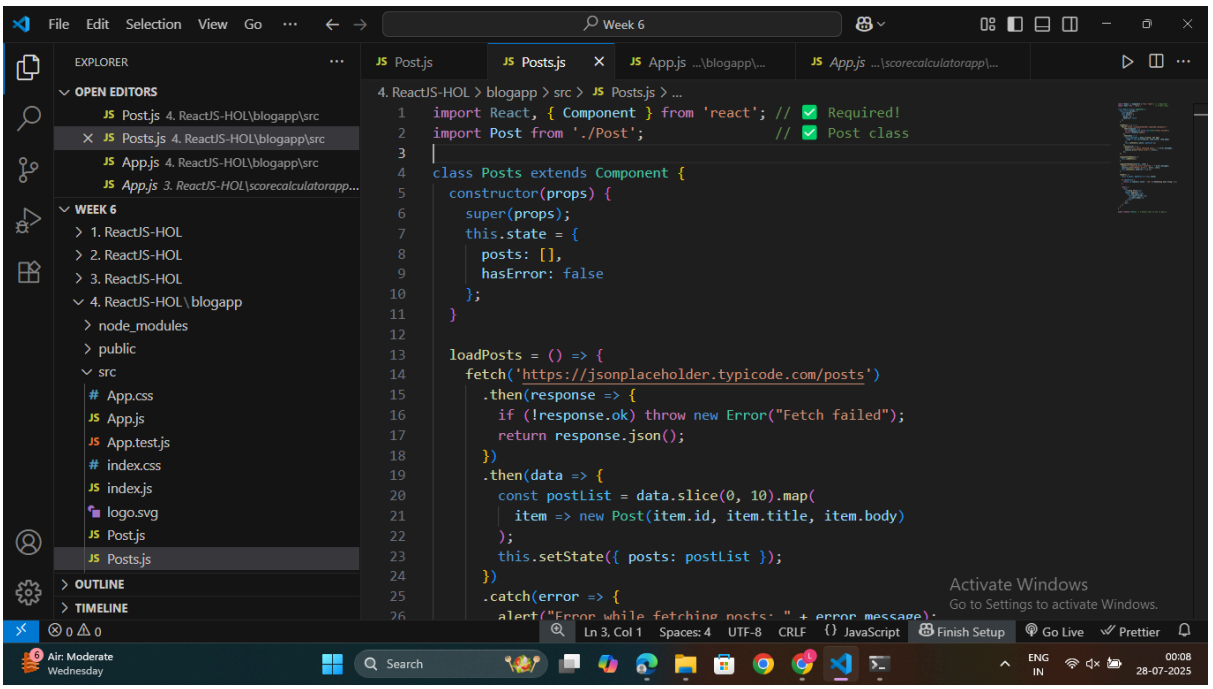
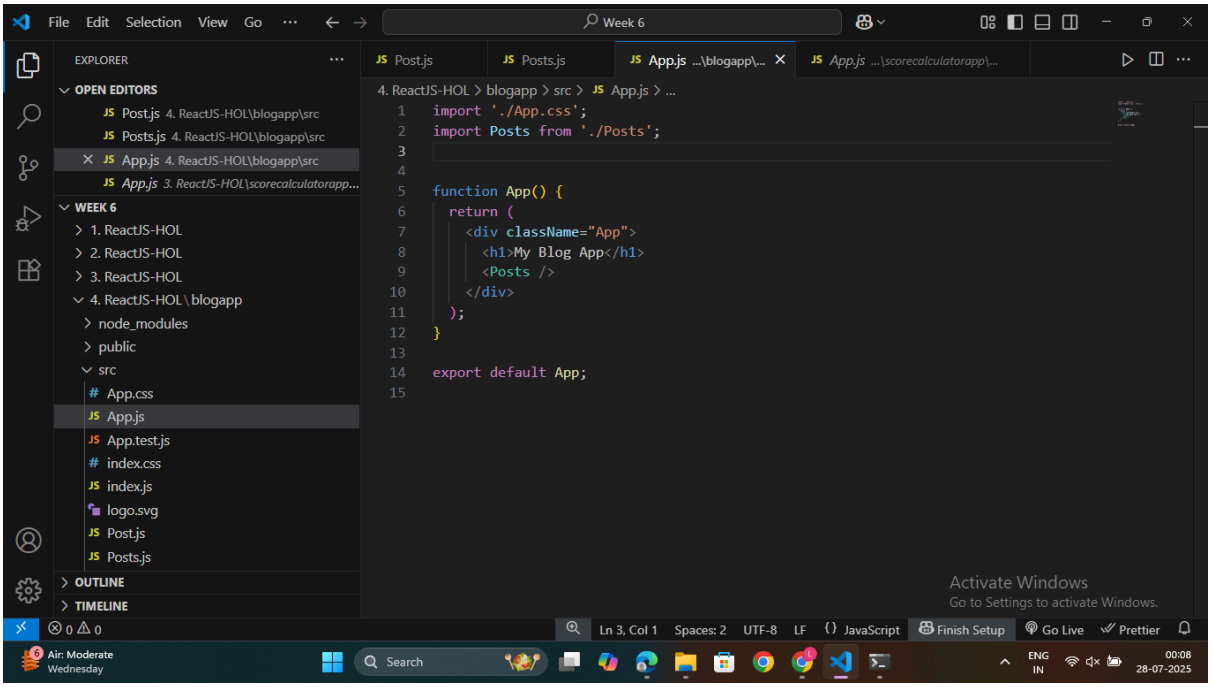
4. ReactJS-HOL



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Week 6
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Posts.js 4. ReactJS-HOL\blogapp\src
App.js 4. ReactJS-HOL\blogapp\src
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WEEK 6
1. ReactJS-HOL
2. ReactJS-HOL
3. ReactJS-HOL
4. ReactJS-HOL \ blogapp
node_modules
public
src
App.css
App.js
App.test.js
index.css
index.js
logo.svg
Post.js
Posts.js
OUTLINE
TIMELINE
Post.js
Posts.js
App.js ...\blogapp\...
App.js ...\scorecalculatorapp\...
4. ReactJS-HOL > blogapp > src > App.js > ...
import './App.css';
import Posts from './Posts';
function App() {
return (

<h1>My Blog App</h1>
<Posts />

);
}
export default App;
Activate Windows
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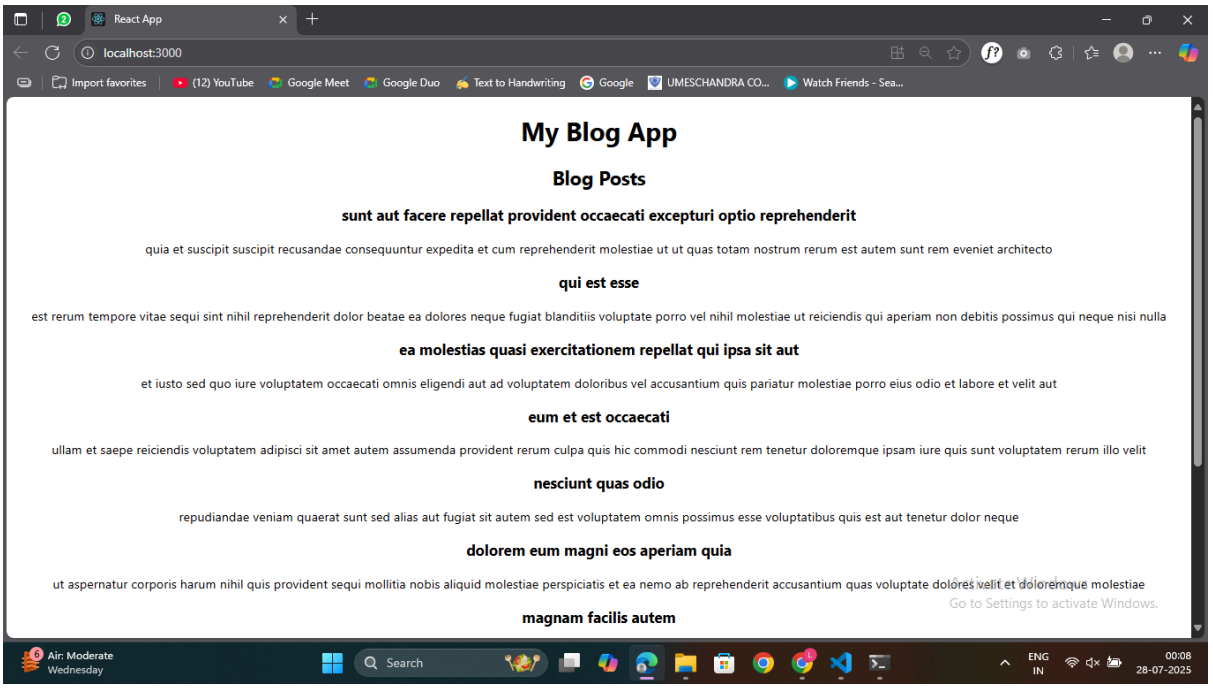
React App
localhost:3000
Import favorites
(12) YouTube
Google Meet
Google Duo
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5. ReactJS-HOL

I am unable to download the react .zip file as it is missing in the document, so I will be building it from scratch

```
Windows PowerShell

PS C:\Users\anish\Desktop\JAVA FSE round 2\Week 6\5. ReactJS-HOL> npx create-react-app cohortstracker

Creating a new React app in C:\Users\anish\Desktop\JAVA FSE round 2\Week 6\5. ReactJS-HOL\cohortstracker.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...


added 1323 packages in 2m

269 packages are looking for funding
  run `npm fund` for details

Installing template dependencies using npm...

added 17 packages, and changed 1 package in 10s

269 packages are looking for funding
  run `npm fund` for details
Removing template package using npm...


removed 1 package, and audited 1340 packages in 3s

269 packages are looking for funding
  run `npm fund` for details

9 vulnerabilities (3 moderate, 6 high)

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
```

```
Windows PowerShell

PS C:\Users\anish\Desktop\JAVA FSE round 2\Week 6\5. ReactJS-HOL> cd cohortstracker
PS C:\Users\anish\Desktop\JAVA FSE round 2\Week 6\5. ReactJS-HOL\cohortstracker> code .
PS C:\Users\anish\Desktop\JAVA FSE round 2\Week 6\5. ReactJS-HOL\cohortstracker> npm start

> cohortstracker@0.1.0 start
> react-scripts start

(node:2892) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'se
tupMiddlewares' option.
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:2892) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the '
setupMiddlewares' option.
Starting the development server...
Compiled successfully!

You can now view cohortstracker in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.56.1:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
Compiling...
Compiled successfully!

You can now view cohortstracker in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.56.1:3000

Note that the development build is not optimized.
To create a production build, use npm run build.
```

File Edit Selection View Go ... Week 6

EXPLORER

OPEN EDITORS
- CohortDetails.module.css 5. ReactJS-H...
- CohortDetails.js 5. ReactJS-HOL\cohort...
- App.js 5. ReactJS-HOL\cohortstracker\src

WEEK 6
- 3. ReactJS-HOL
- 4. ReactJS-HOL
- 5. ReactJS-HOL\cohortstracker
  - node_modules
  - public
  - src
    - App.css
    - App.js
    - App.test.js
    - CohortDetails.js
    - CohortDetails.module.css
    - index.css
    - index.js
    - logo.svg
    - reportWebVitals.js

OUTLINE

TIMELINE

CohortDetails.module.css | CohortDetails.js | App.js

5. ReactJS-HOL > cohortstracker > src > CohortDetails.module.css > dt

```
.box {
    width: 300px;
    display: inline-block;
    margin: 10px;
    padding: 10px 20px;
    border: 1px solid black;
    border-radius: 10px;
}

dt {
    font-weight: 500;
}
```

Activate Windows
Go to Settings to activate Windows.

Ln 12, Col 2 | Spaces: 4 | UTF-8 | CRLF | CSS | Finish Setup | Go Live | Prettier

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File Edit Selection View Go ... Week 6

EXPLORER

OPEN EDITORS 1 unsaved
- CohortDetails.module.css 5. ReactJS-H...
- CohortDetails.js 5. ReactJS-HOL\cohort...
- App.js 5. ReactJS-HOL\cohortstracker\src

WEEK 6
- 3. ReactJS-HOL
- 4. ReactJS-HOL
- 5. ReactJS-HOL\cohortstracker
  - node_modules
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    - App.css
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    - CohortDetails.js
    - CohortDetails.module.css
    - index.css
    - index.js
    - logo.svg
    - reportWebVitals.js

OUTLINE

TIMELINE

CohortDetails.module.css | CohortDetails.js | App.js

5. ReactJS-HOL > cohortstracker > src > CohortDetails.js > ...

```
import React from "react";

import styles from "./CohortDetails.module.css";

const CohortDetails = ({ name, trainer, status }) => {
  const statusStyle = {
    color: status.toLowerCase() === "ongoing" ? "green" : "blue",
  };

  return (
    <div className={styles.box}>
      <h3 style={statusStyle}>{name}</h3>
      <dl>
        <dt>Trainer:</dt>
        <dd>{trainer}</dd>
        <dt>Status:</dt>
        <dd>{status}</dd>
      </dl>
    </div>
  );
};

export default CohortDetails;
```

Activate Windows
Go to Settings to activate Windows.

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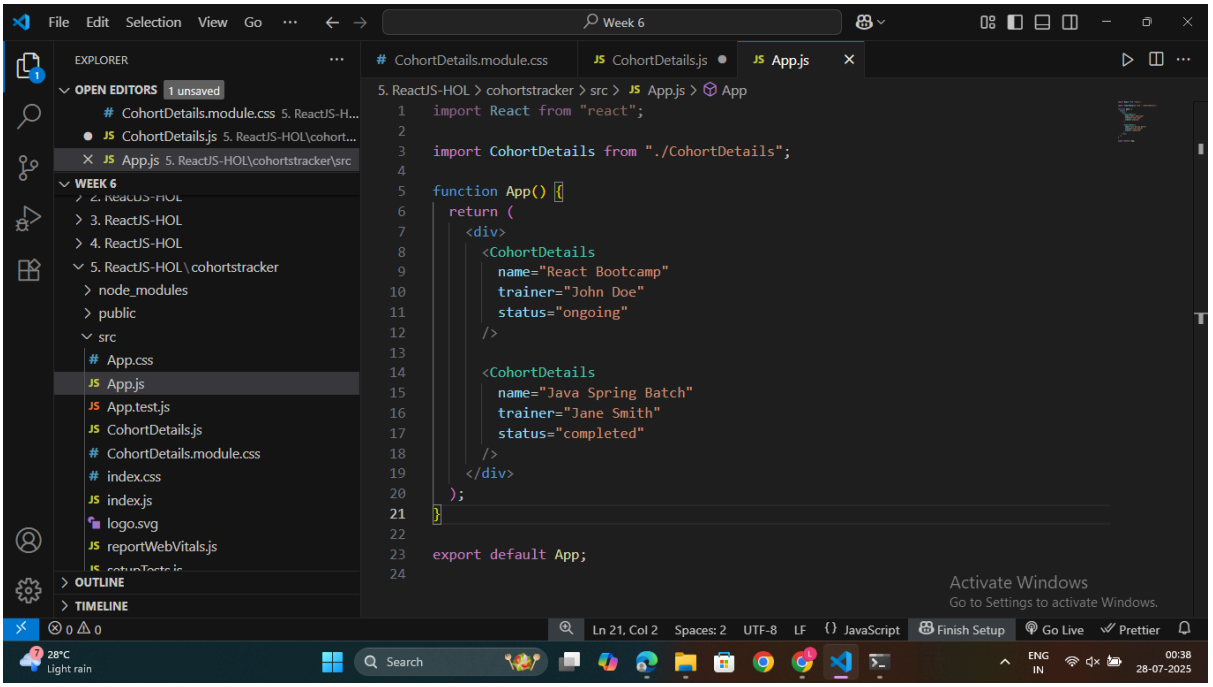
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Week 6
EXPLORER
OPEN EDITORS 1 unsaved
CohortDetails.module.css 5. ReactJS-H...
CohortDetails.js 5. ReactJS-HOL\cohort...
App.js 5. ReactJS-HOL\cohortstracker\src
WEEK 6
3. ReactJS-HOL
4. ReactJS-HOL
5. ReactJS-HOL\cohortstracker
node_modules
public
src
App.css
App.js
App.test.js
CohortDetails.js
CohortDetails.module.css
index.css
index.js
logo.svg
reportWebVitals.js
OUTLINE
TIMELINE
CohortDetails.module.css
CohortDetails.js
App.js
5. ReactJS-HOL > cohortstracker > src > App.js > App
import React from "react";
import CohortDetails from "./CohortDetails";
function App() {
return (

<CohortDetails
name="React Bootcamp"
trainer="John Doe"
status="ongoing"
/>
<CohortDetails
name="Java Spring Batch"
trainer="Jane Smith"
status="completed"
/>

);
}
export default App;
Activate Windows
Go to Settings to activate Windows.
Ln 21, Col 2 Spaces: 2 UTF-8 LF {} JavaScript Finish Setup Go Live Prettier
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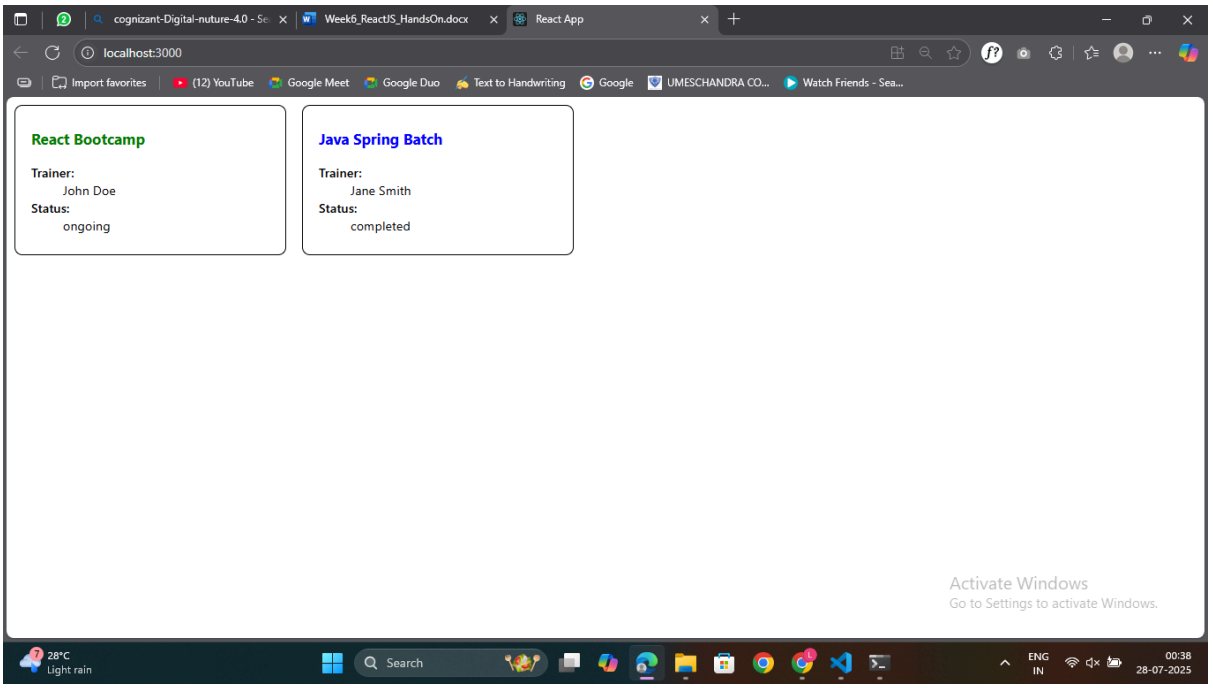
cognizant-Digital-nuture-4.0 - Se
Week6_ReactJS_HandsOn.docx
React App
localhost:3000
Import favorites
(12) YouTube
Google Meet
Google Duo
Text to Handwriting
Google
UMESCHANDRA CO...
Watch Friends - Sea...
React Bootcamp
Trainer:
John Doe
Status:
ongoing
Java Spring Batch
Trainer:
Jane Smith
Status:
completed
Activate Windows
Go to Settings to activate Windows.
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