

1. ReactJS-HOL

After installing Nodejs and Npm

```
PS C:\Users\B PREM SAI SIDDHIK> node --version
v22.12.0

PS C:\Users\B PREM SAI SIDDHIK> npm
npm <command>

Usage:

npm install          install all the dependencies in your project
npm install <foo>    add the <foo> dependency to your project
npm test             run this project's tests
npm run <foo>        run the script named <foo>
npm <command> -h     quick help on <command>
npm -l              display usage info for all commands
npm help <term>     search for help on <term> (in a browser)
npm help npm        more involved overview (in a browser)

All commands:

access, adduser, audit, bugs, cache, ci, completion,
config, dedupe, deprecate, diff, dist-tag, docs, doctor,
edit, exec, explain, explore, find-dupes, fund, get, help,
help-search, hook, init, install, install-ci-test,
install-test, link, ll, login, logout, ls, org, outdated,
owner, pack, ping, pkg, prefix, profile, prune, publish,
query, rebuild, repo, restart, root, run-script, sbom,
search, set, shrinkwrap, star, stars, start, stop, team,
test, token, uninstall, unpublish, unstar, update, version,
view, whoami

Specify configs in the ini-formatted file:
  C:\Users\B PREM SAI SIDDHIK\.npmrc
or on the command line via: npm <command> --key=value

More configuration info: npm help config
Configuration fields: npm help 7 config

npm@10.9.0 C:\Program Files\nodejs\node_modules\npm
PS C:\Users\B PREM SAI SIDDHIK> |
```

Creating React App “myfirstreact”

```
npm run build
  Bundles the app into static files for production.

npm test
  Starts the test runner.

npm run eject
  Removes this tool and copies build dependencies, configuration files
  and scripts into the app directory. If you do this, you can't go back!
```

We suggest that you begin by typing:

```
cd myfirstreact
npm start
```

Happy hacking!

PS C:\Users\B PREM SAI SIDDHIK\Desktop\COG_WEEK7>

* History restored

App.js

```
import './App.css';
function App() {
  return (
    <h1>Welcome the first session of React</h1>
  );
}
export default App;
```

Running the application

```
PS C:\Users\B PREM SAI SIDDHIK\Desktop\COG_WEEK7> cd myfirstreact
PS C:\Users\B PREM SAI SIDDHIK\Desktop\COG_WEEK7\myfirstreact> npm start

> myfirstreact@0.1.0 start
> react-scripts start

(node:12364) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is
deprecated. Please use the 'setupMiddlewares' option.
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:12364) [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 myfirstreact in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.0.104:3000

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

webpack compiled successfully
Compiling...
Compiled successfully!

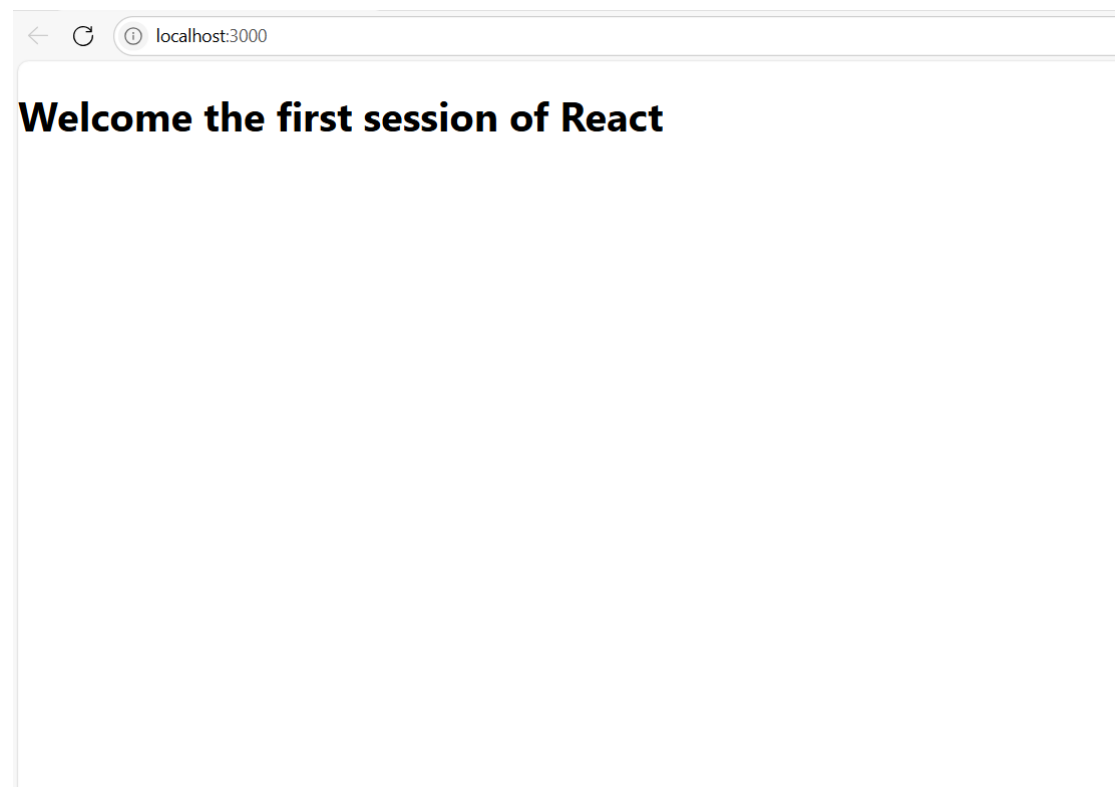
You can now view myfirstreact in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.0.104:3000

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

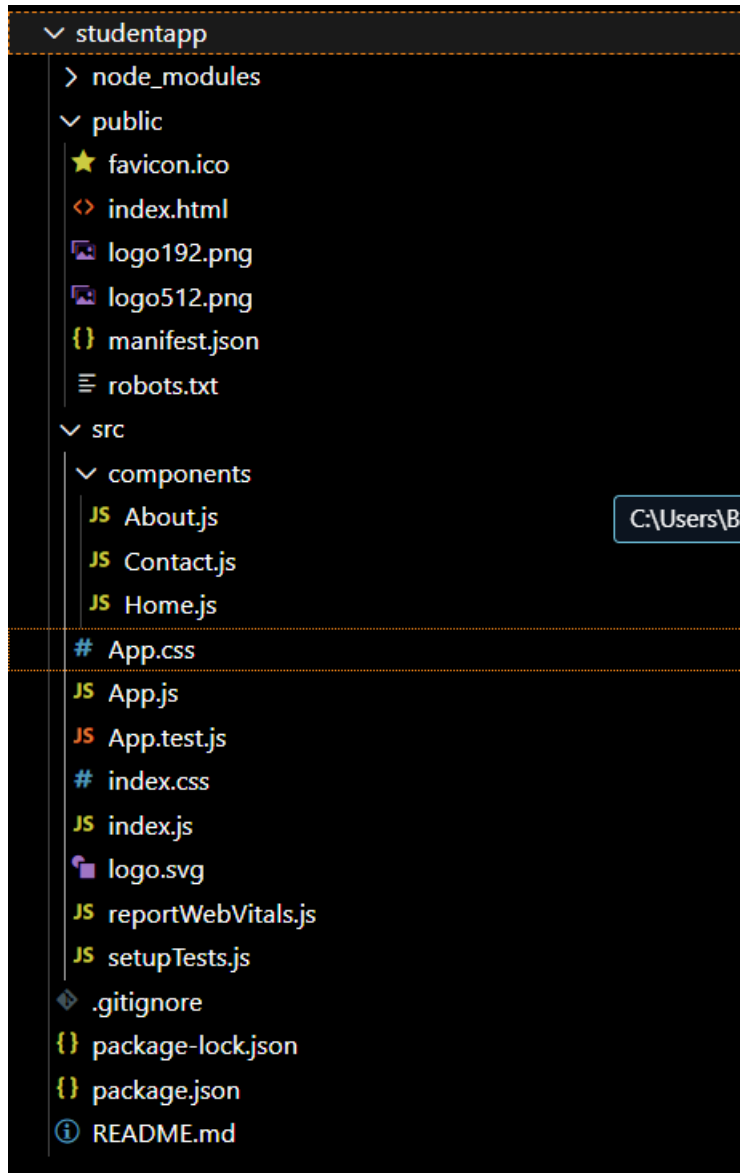
webpack compiled successfully
```

OUTPUT



2. ReactJS-HOL

Creating “studentapp”



Home.js

```
import React, { Component } from "react";
class Home extends Component
{
  render()
  {
    return (<div>
```

```

    <h3>
      Welcome to the Home Page of Student Management Portal
    </h3>
  </div>);
}
}
export {Home};

```

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 {About};

```

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 {Contact};

```

App.js

```
import './App.css';
import {Home} from './components/Home';
import {About} from './components/About';
import {Contact} from './components/Contact';
function App() {
  return (
    <div className="container">
      <Home/>
      <About/>
      <Contact/>
    </div>
  );
}
export default App;
```

App.css

```
.container{
  text-align:center;
}
```

OUTPUT

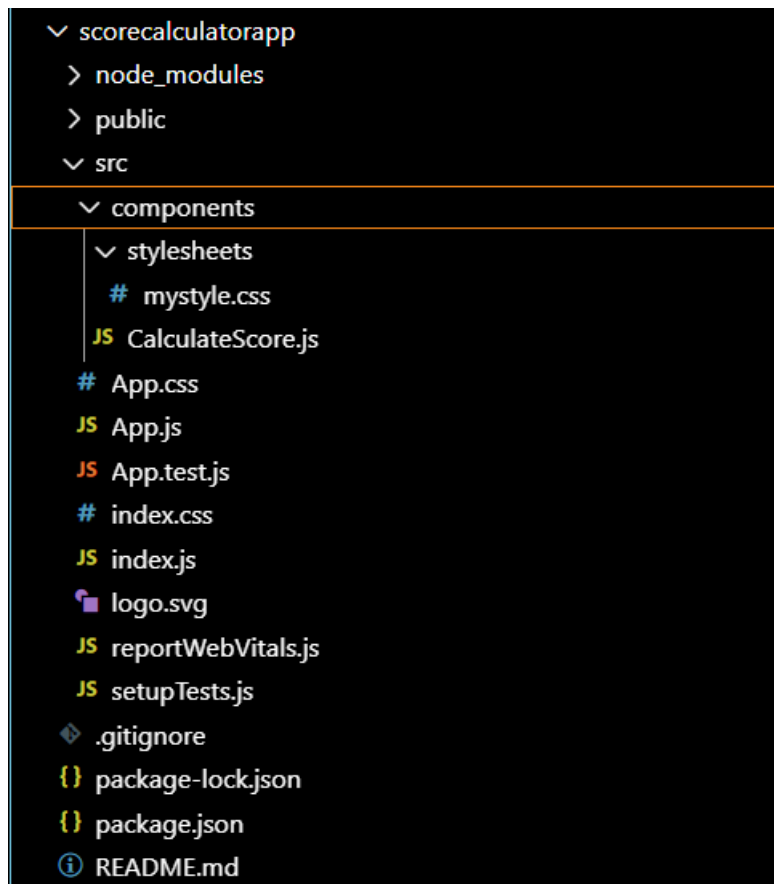


Welcome to the Home Page of Student Management Portal

Welcome to the About Page of Student Management Portal

Welcome to the Contact Page of Student Management Portal

3.ReactJS-HOL



CalculatorScore.js

```
import "../components/stylesheets/mystyle.css";

const percentToDecimal= (decimal) => {
  return (decimal.toFixed(2) + '%');
};

const calcScore=(total, goal)=>{
  return percentToDecimal(total/goal);
};

export const CalculateScore = ({Name, School, total, goal}) => (
  <div className="formatstyle">
    <h1><font color="Brown">Student Details:</font></h1>
    <div className="Name">
      <b> <span> Name: </span></b>
      <span>{Name}</span>
    </div>
    <div className="School">
```

```

        <b> <span> School </span></b>
        <span>{School}</span>
    </div>
    <div className="Total">
        <b><span>Total:</span></b>
        <span>{total}</span>
        <span>Marks</span>
    </div>
    <div className="Score">
        <b>Score:</b>
        <span>{calcScore(total,goal)}</span>
    </div>
</div>);

```

mystyle.css

```

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

h1 {
    color: brown;
}

.Name b {
    color: blue;
}

.Name span:last-child {
    color: cornflowerblue;
}

.School b {
    color: crimson;
}

.School span:last-child {
    color: palevioletred;
}

.Total b {
    color: purple;
}

.Total span:last-child {

```



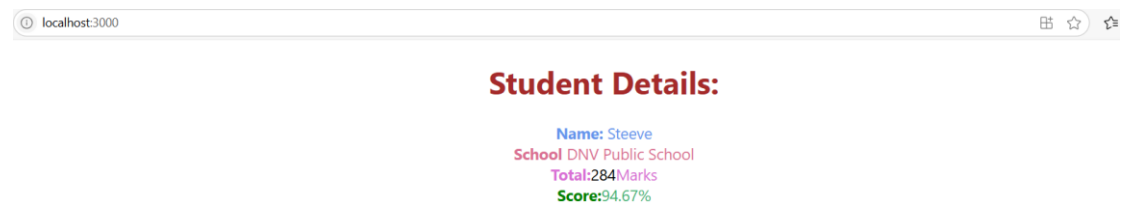
```
    color: orchid;
  }
  .Score b {
    color: green;
  }
  .Score span:last-child {
    color: mediumseagreen;
  }
}
```

App.js

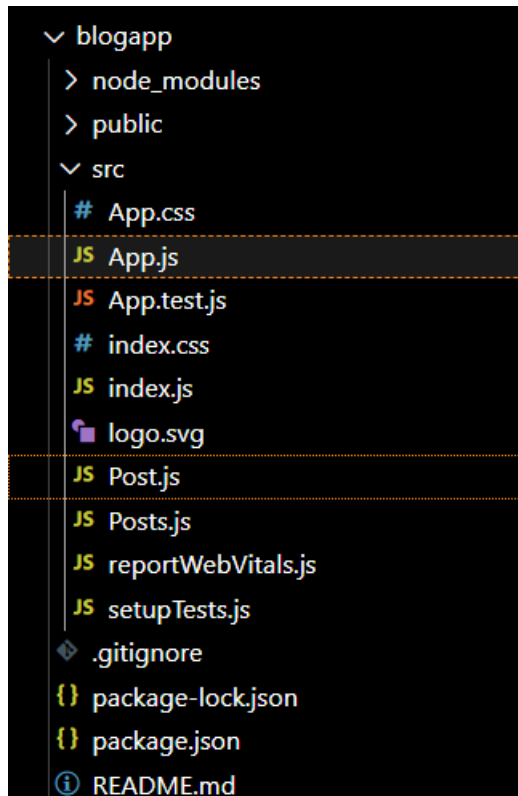
```
import {CalculateScore} from "../src/components/CalculateScore";
function App()
{
  return(
    <div>
      <CalculateScore
        Name={"Steeve"}
        School={"DNV Public School"}
        total={284}
        goal={3}
      />
    </div>
  );
}

export default App;
```

OUTPUT



4. ReactJS-HOL



Post.js

```
class Post {  
  constructor(id, title, body) {  
    this.id = id;  
    this.title = title;  
    this.body = body;  
  }  
}  
  
export default Post;
```

Posts.js

```
import React, { Component } from 'react';  
import Post from './Post';  
class Posts extends Component {  
  constructor(props) {  
    super(props);
```

```

this.state = {
  posts: [],
  hasError: false
};
}
loadPosts = () => {
  fetch('https://jsonplaceholder.typicode.com/posts')
    .then(response => response.json())
    .then(data => {
      const postObjects = data.map(post => new Post(post.id, post.title,
post.body));
      this.setState({ posts: postObjects });
    })
    .catch(error => {
      console.error('Error fetching posts:', error);
      this.setState({ hasError: true });
    });
};
componentDidMount() {
  this.loadPosts();
}
componentDidCatch(error, info) {
  alert("An error occurred while rendering the component.");
  console.error("Error caught by componentDidCatch:", error, info);
}
render() {
  if (this.state.hasError) {
    return <h2 style={{ color: 'red' }}>Something went wrong while
loading posts.</h2>;
  }
  return (
    <div style={{ padding: '20px' }}>
      <h1>Posts</h1>
      {this.state.posts.map(post => (
        <div key={post.id} style={{ marginBottom: '20px', borderBottom:
'1px solid #ccc' }}>
          <h2>{post.title}</h2>
          <p>{post.body}</p>
        </div>
      ))}
    </div>
  )
}

```

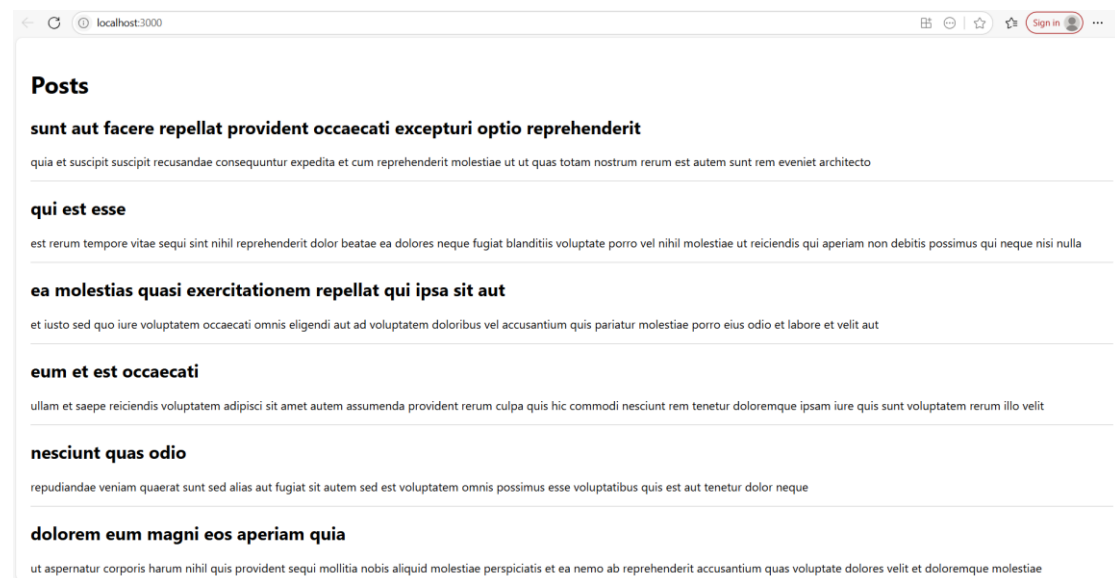
```
    </div>
  );
}
}
export default Posts;
```

App.js

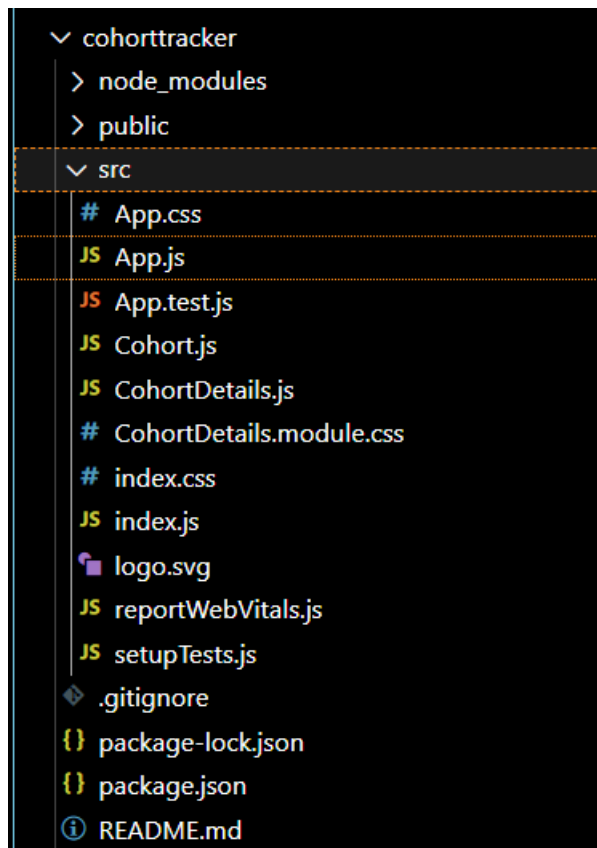
```
import React from 'react';
import Posts from './Posts';

function App() {
  return (
    <div className="App">
      <Posts />
    </div>
  );
}
export default App;
```

OUTPUT



5. ReactJS-HOL



CohortDetails.js

```
import React from 'react';
import styles from './CohortDetails.module.css';

function CohortDetails(props) {
  const isOngoing = props.cohort.currentStatus.toLowerCase() ===
'ongoing';
  const h3Style = { color: isOngoing ? 'green' : 'blue' };
  return (
    <div className={styles.box}>
      <h3 style={h3Style}>
        {props.cohort.cohortCode} -
      <span>{props.cohort.technology}</span>
      </h3>
      <dl>
        <dt>Started On</dt>
        <dd>{props.cohort.startDate}</dd>
        <dt>Current Status</dt>
```

```

    <dd>{props.cohort.currentStatus}</dd>
    <dt>Coach</dt>
    <dd>{props.cohort.coachName}</dd>
    <dt>Trainer</dt>
    <dd>{props.cohort.trainerName}</dd>
  </dl>
</div>
);
}
export default CohortDetails;

```

Cohort.js

```

class Cohort {
  constructor(cohortCode, startDate, technology, trainerName,
coachName, currentStatus) {
    this.cohortCode = cohortCode;
    this.coachName = coachName;
    this.trainerName = trainerName;
    this.technology = technology;
    this.startDate = startDate;
    this.currentStatus = currentStatus;
  }
}

const CohortsData = [
  new Cohort('INTADMDF10', '22-Feb-2022', '.NET FSD', 'Jojo Jose',
'Aathma', 'Scheduled'),
  new Cohort('ADM21JF014', '10-Sep-2021', 'Java FSD', 'Elisa Smith',
'Apoorv', 'Ongoing'),
  new Cohort('CDBJF21025', '24-Dec-2021', 'Java FSD', 'John Doe',
'Aathma', 'Ongoing'),
  new Cohort('INTADMJF12', '22-Feb-2022', 'Java FSD', 'To Be Assigned',
'Ibrahim', 'Scheduled'),
  new Cohort('CDE22JF011', '24-Dec-2021', 'Java FSD', 'Emma Swan',
'Apoorv', 'Ongoing'),
  new Cohort('INTADMDF09', '22-Feb-2022', 'Dataware Housing', 'Babjee
Rao', 'Aathma', 'Scheduled'),

```

```

new Cohort('ADM22DF001', '10-Sep-2021', '.NET FSD', 'Marie Curie',
'Ibrahim', 'Ongoing'),
];
export { Cohort, CohortsData };

```

CohortDetails.module.css

```

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

dt {
font-weight: 500;
}

```

OUTPUT

