

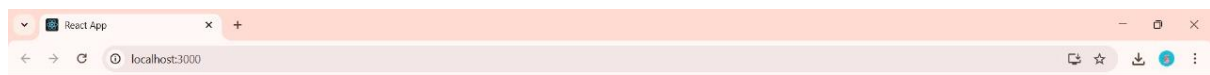
EXERCISE 1:

1.React Js-HOL

App.js :

```
import React from 'react';  
function App() {  
  return (  
    <div>  
      <h1 ><center>Welcome to the first session of React</center></h1>  
    </div>  
  );  
}  
export default App;
```

OUTPUT:



Welcome to the first session of React



EXERCISE 2:

Components/Home.js :

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

class Home extends Component {
  render() {
    return (
      <div>
        <h2>Welcome to the Home page of Student Management
        Portal</h2>
      </div>
    );
  }
}

export default Home;
```

Components/About.js :

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

class About extends Component {
  render() {
    return (
      <div>
        <h2>Welcome to the About page of the Student Management
        Portal</h2>
      </div>
    );
  }
}
```

```
    }  
  }  
  export default About;  
Components/Contact.js :  
  
import React, { Component } from 'react';  
class Contact extends Component {  
  render() {  
    return (  
      <div>  
        <h2>Welcome to the Contact page of the Student Management  
Portal</h2>  
      </div>  
    );  
  }  
}
```

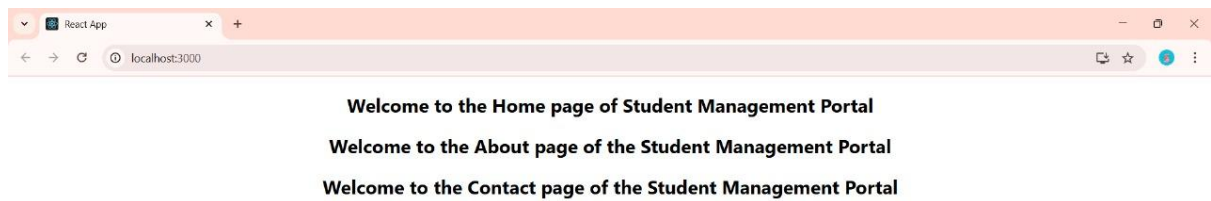
```
App.js :  
import React from 'react';  
import './App.css';  
import Home from './Components/Home';  
import About from './Components/About';  
import Contact from './Components/Contact';
```

```
function App() {  
  return (  
    <div className="App">  
      <Home />  
      <About />
```

```
        <Contact />
      </div>
    );
  }

  export default App;
```

OUTPUT:



EXERCISE 3:

Components/ScoreCalculator.js :

```
import React from 'react';
import '../Stylesheets/mystyle.css';

function CalculateScore(props) {
  const { name, school, total, goal } = props;
  const average = total / goal;

  return (
    <div className="score-container">
      <h2>Student Score Details</h2>
      <p><strong>Name:</strong> {name}</p>
      <p><strong>School:</strong> {school}</p>
      <p><strong>Total Marks:</strong> {total}</p>
      <p><strong>Subjects:</strong> {goal}</p>
      <p><strong>Average Score:</strong> {average.toFixed(2)}</p>
    </div>
  );
}

export default CalculateScore;
```

mystyle.css :

```
.score-container {
  background-color: #f0f8ff;
  border: 2px solid #064b4b;
```

```
padding: 20px;
margin: 20px auto;
width: 50%;
border-radius: 10px;
font-family: Arial, sans-serif;
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
}

.score-container h2 {
  color: #085c5c;
  text-align: center;
}

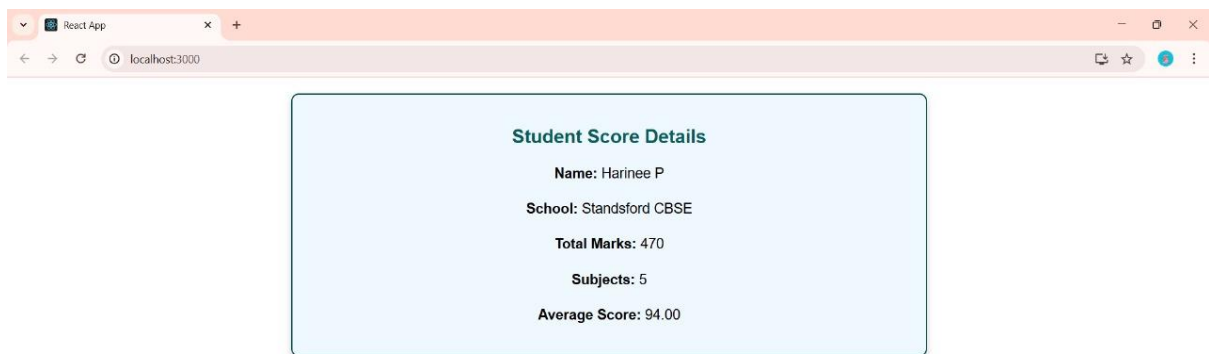
.score-container p {
  font-size: 18px;
  line-height: 1.5;
}

import React from 'react';
import './App.css';
import CalculateScore from './Components/CalculateScore';

function App() {
  return (
    <div className="App">
      <CalculateScore
        name="Harinee P"
        school="Standsford CBSE"
        total={470}
        goal={5}
      />
    </div>
  );
}
```

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

OUTPUT:



EXERCISE 4:

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';

class Posts extends Component {

constructor(props) {

super(props);

this.state = {

posts: [],

hasError: false,

};

}

loadPosts() {

const englishPosts = [

{

id: 1,

title: 'The Power of Positive Thinking',

body: 'Positive thinking helps you build a better mindset, reduce stress, and improve overall well-being. It does not mean ignoring life's challenges but facing them with a constructive attitude.',

},

{

id: 2,

title: 'Time Management for Students',

body: 'Effective time management is essential for academic success. Prioritize your tasks, avoid procrastination, and use tools like calendars and to-do lists to stay organized.',

},

{

id: 3,

title: 'Benefits of Daily Exercise',

body: 'Daily physical activity boosts your energy, improves mood, and strengthens your heart. Even a 30-minute walk can make a big difference in your health.',

},

{

id: 4,

title: 'How to Stay Focused While Studying',

body: 'Eliminate distractions, take regular breaks, and set small achievable goals. Create a dedicated study space and reward yourself after completing tasks.',

},

{

id: 5,

title: 'Why Reading Books Improves Your Brain',

body: 'Reading enhances memory, vocabulary, and imagination. It stimulates your brain, improves empathy, and helps you become a better communicator.',

},

];

setTimeout(() => {

 this.setState({ posts: englishPosts });

}, 3000);

}

componentDidMount() {

 this.loadPosts();

}

componentDidCatch(error, info) {

 alert("An error occurred while rendering posts.");

 console.error("Caught error:", error, info);

 this.setState({ hasError: true });

} render() {

 const { posts, hasError } = this.state;

 if (hasError) {

 return <h2 style={{ color: 'red' }}>Something went wrong.</h2>;

 }

 return (

 <div>

 <h1>Blog Posts</h1>

 {posts.length === 0 ? (

 <p>Loading posts...</p>

): (

```

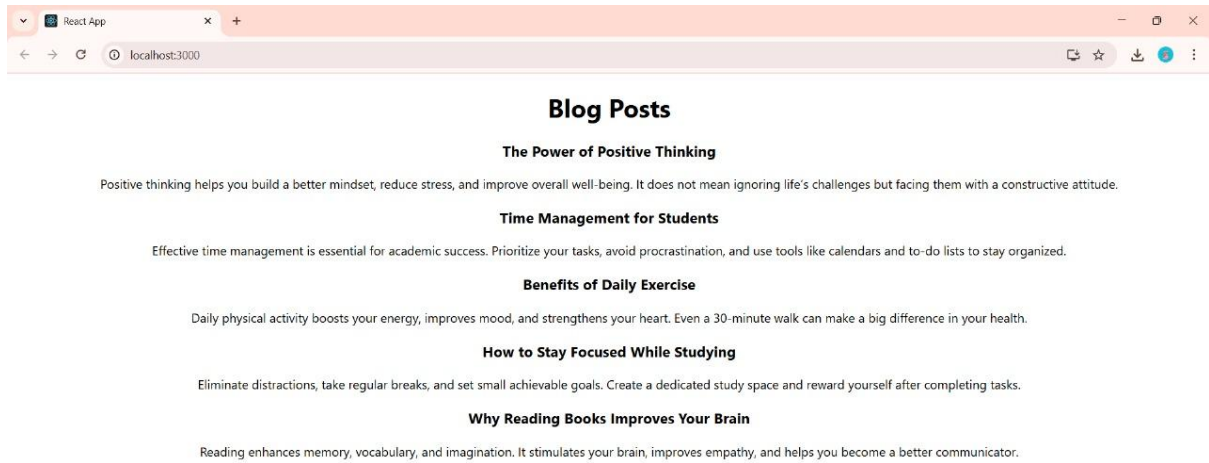
    posts.map((post) => (
      <div key={post.id} style={{ marginBottom: '20px' }}>
        <h3>{post.title}</h3>
        <p>{post.body}</p>
      </div>
    ))
  )}
</div>

);
}
}
export default Posts;
App.js :
import React from 'react';
import './App.css';
import Posts from './Posts';
function App() {
  return (
    <div className="App">
      <Posts />
    </div>
  );
}

export default App;

```

OUTPUT:



EXERCISE 5:

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-2025', '.NET FSD', 'Jojo
Jose','Aathma', 'Scheduled'),
  new Cohort('ADM21JF014','10-APR-2024', 'Java FSD', 'Elisa
Smith','Apoorv', 'Ongoing'),
  new Cohort('CDBJF21025','24-APR-2025', 'Java FSD', 'John
Doe','Aathma', 'Ongoing'),
  new Cohort('INTADMJF12','22-Feb-2025', 'Java FSD', 'To Be
Assigned','Ibrahim', 'Scheduled'),
  new Cohort('CDE22JF011','24-Dec-2025', 'Java FSD', 'Emma
Swan','Apoorv', 'Ongoing'),
  new Cohort('INTADMDF09','22-Feb-2025', 'Dataware Housing', 'Babjee
Rao','Aathma', 'Scheduled'),
  new Cohort('ADM22DF001','10-Apr-2025', '.NET FSD', 'Marie
Curie','Ibrahim', 'Ongoing'),
];
export {Cohort, CohortsData};

CohortDetails.js :

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

```

function CohortDetails(props) {
  const { cohortCode, technology, startDate, currentStatus, coachName,
    trainerName } = props.cohort;

  const statusClass = currentStatus === 'ongoing' ? styles.ongoing :
    styles.completed;

  return (
    <div className={styles.box}>
      <h3 className={statusClass}>
        {cohortCode} - <span>{technology}</span>
      </h3>
      <dl>
        <dt>Started On</dt>
        <dd>{startDate}</dd>
        <dt>Current Status</dt>
        <dd>{currentStatus}</dd>
        <dt>Coach</dt>
        <dd>{coachName}</dd>
        <dt>Trainer</dt>
        <dd>{trainerName}</dd>
      </dl>
    </div>
  );
}

export default CohortDetails;

```

CohortDetails.module.css :

```
.box {  
  width: 300px;  
  display: inline-block;  
  margin: 10px;  
  padding: 10px 20px;  
  border: 1px solid black;  
  border-radius: 10px;transition: 0.3s;  
  
}
```

```
h1 {  
  text-align: center;  
  color: #333;  
  background-color: beige;  
}
```

```
.box:hover {  
  background-color: #f0f0f0;  
  
  transform: scale(1.1);  
}  
dt {  
  font-weight: 500;  
}
```

```
.ongoing {  
  color: green;  
}  
.completed {  
  color: blue;  
}  
}App.js :  
import logo from './logo.svg';  
import './App.css';  
import { CohortsData } from './Cohort'  
import CohortDetails from './CohortDetails';  
function App() {  
  return (  
    <div>  
      <h1 >Cohorts Details</h1>  
      {CohortsData.map(cohort => <CohortDetails cohort={cohort}/>)}  
    </div>  
  );  
}export default App;
```

OUTPUT:

Cohorts Details

<div>INTADMDF10 - .NET FSD</div> <div>Started On 22-Feb-2025</div> <div>Current Status Scheduled</div> <div>Coach Aathma</div> <div>Trainer Jojo Jose</div>	<div>ADM21JF014 - Java FSD</div> <div>Started On 10-APR-2024</div> <div>Current Status Ongoing</div> <div>Coach Apoorv</div> <div>Trainer Elisa Smith</div>	<div>CDBJF21025 - Java FSD</div> <div>Started On 24-APR-2025</div> <div>Current Status Ongoing</div> <div>Coach Aathma</div> <div>Trainer John Doe</div>	<div>INTADMJF12 - Java FSD</div> <div>Started On 22-Feb-2025</div> <div>Current Status Scheduled</div> <div>Coach Ibrahim</div> <div>Trainer To Be Assigned</div>
<div>CDE22JF011 - Java FSD</div> <div>Started On 24-Dec-2025</div> <div>Current Status Ongoing</div> <div>Coach Apoorv</div> <div>Trainer Emma Swan</div>	<div>INTADMDF09 - Dataware Housing</div> <div>Started On 22-Feb-2025</div> <div>Current Status Scheduled</div> <div>Coach Aathma</div> <div>Trainer Babjee Rao</div>	<div>ADM22DF001 - .NET FSD</div> <div>Started On 10-Apr-2025</div> <div>Current Status Ongoing</div> <div>Coach Ibrahim</div> <div>Trainer Marie Curie</div>	