DN 4.0 JAVA FSE SOLUTIONS - WEEK 6

Skill: React

Hands-On 1

Project Name: myfirstreact

Command to Create App:

```
npx create-react-app myfirstreact
```

• Command to Run App:

```
npm start
```

• Code - src/App.js:

```
function App() {
  return (
     <h1 style={{ textAlign: "center" }}>
          Welcome the first session of React
      </h1>
  );
}
export default App;
```

Output: A centered heading displaying the welcome message.



Hands-On 2

Project Name: studentapp

• Command to Create App:

```
npx create-react-app studentapp
```

```
• Command to Run App:
```

```
npm start
```

```
• Code - src/Components/Home.js:
```

• Code - src/Components/About.js:

• Code - src/Components/Contact.js:

• Code - src/App.js:

Output: Displays Home, About, and Contact page headings.



Hands-On 3

Project Name: scorecalculatorapp

• Command to Create App:

npx create-react-app scorecalculatorapp

• Command to Run App:

npm start

• Code - src/Stylesheets/mystyle.css:

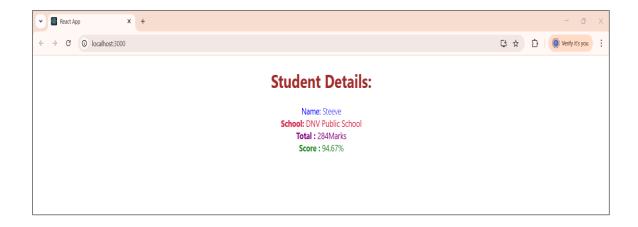
```
.Name { font-weight: 300; color: blue; }
.School { color: crimson; }
.Total { color: darkmagenta; }
```

```
.formatstyle { text-align: center; font-size: large; }
.Score { color: forestgreen; }

    Code - src/Components/CalculateScore.js:

import '../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>Name:</b> <span>{Name}</span></div>
    <div className="School"><b>School:</b> <span>{School}</span></div>
    <div className="Total"><b>Total:</b> <span>{total}
Marks</span></div>
    <div className="Score"><b>Score:</b> <span>{calcScore(total,
goal) }</span></div>
 </div>
);
Code - src/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: Displays student details with styles and calculated score.



Hands-On 4

Project Name: blogapp

• Command to Create App:

```
npx create-react-app blogapp
```

• Command to Run App:

```
npm start
```

• Code - src/Post.js:

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

• Code - src/Posts.js:

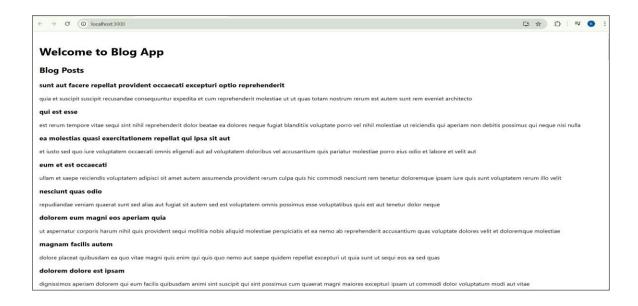
```
import React from "react";
import Post from "./Post";

class Posts extends React.Component {
  constructor(props) {
    super(props);
    this.state = { posts: [] };
  }

loadPosts() {
  fetch("https://jsonplaceholder.typicode.com/posts")
    .then((response) => response.json())
```

```
.then((data) \Rightarrow {
        const postsData = data.map(
          (item) => new Post(item.id, item.title, item.body)
        );
        this.setState({ posts: postsData });
      .catch((error) => alert("Error fetching posts: " + error));
  }
  componentDidMount() {
    this.loadPosts();
  componentDidCatch(error, info) {
    alert("An error occurred: " + error);
  render() {
    return (
      <div>
        <h2>Blog Posts</h2>
        {this.state.posts.map((post) => (
          <div key={post.id}>
            <h3>{post.title}</h3>
            {post.body}
          </div>
        ) ) }
      </div>
   );
 }
export default Posts;
Code - src/App.js:
import React from "react";
import Posts from "./Posts";
function App() {
 return (
    <div className="App" style={{ padding: "20px" }}>
      <h1>Welcome to Blog App</h1>
      <Posts />
    </div>
 );
export default App;
```

Output: Fetches and displays a list of blog posts.



Hands-On 5

Project Name: cohorttrack (unzipped folder)

Assigned', 'Ibrahim', 'Scheduled'),

• Command to Install & Run:

```
npm install
npm start

    Code - src/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

```
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'),
1;
export { Cohort, CohortsData };
• Code - src/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;

    Code - src/CohortDetails.js:

import styles from "./CohortDetails.module.css";
function CohortDetails(props) {
 const { cohort } = props;
  const headingStyle = {
    color: cohort.currentStatus.toLowerCase() === "ongoing" ? "green" :
"blue"
  } ;
  return (
    <div className={styles.box}>
      <h3 style={headingStyle}>
        {cohort.cohortCode} - <span>{cohort.technology}</span>
      </h3>
      <d1>
        <dt>Started On</dt><dd>{cohort.startDate}</dd>
        <dt>Current Status</dt><dd>{cohort.currentStatus}</dd>
        <dt>Coach</dt><dd>{cohort.coachName}</dd>
        <dt>Trainer</dt><dd>{cohort.trainerName}</dd>
      </dl>
    </div>
  );
export default CohortDetails;
```

• Code - src/App.js:

Output: Displays multiple cohort cards with styling and details.

