DotNet-FSE Mandatory Hands-On

WEEK-6 NAME: Sri Ranjani Priya P

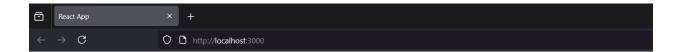
EXERCISE 1:

Create a new React Application with the name "myfirstreact", Run the application to print "welcome to the first session of React" as heading of that page.

CODE:

File: App.js

OUTPUT:



Welcome to the first session of React

EXERCISE 2:

Create a react app for Student Management Portal named StudentApp and create a component named Home which will display the Message "Welcome to the Home page of Student Management Portal". Create another component named About and display the Message "Welcome to the About page of the Student Management Portal". Create a third component named Contact and display the Message "Welcome to the Contact page of the Student Management Portal". Call all the three components.

CODE:

File: App.js

File:Home.js:

File:Contact.js:

File: About. js:

OUTPUT:



Welcome to the Home page of Student Management Portal

Welcome to the Contact page of the Student Management Portal

Welcome to the About page of the Student Management Portal

EXERCISE 3:

Create a react app for Student Management Portal named scorecalculatorapp and create a function component named "CalculateScore" which will accept Name, School, Total and goal in order to calculate the average score of a student and display the same.

CODE:

File: App.js

File:CalculateScore.js

File: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;
}
```

OUTPUT:

http://localhost:3000

Student Details

Name : Cognizant School : Tech School Total : 295Marks Score : 98.33%

EXERCISE 4:

Create a new react application using *create-react-app* tool with the name as "blogapp".1. Create a new method in component with the name as **loadPosts()** which will be responsible for using Fetch API and assign it to the component state created earlier. To get the posts use the url (https://jsonplaceholder.typicode.com/posts). Define a **componentDidCatch()** method which will be responsible for displaying any error happing in the component as alert messages.

CODE:

File: App.js

File:Posts.js

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

File:Posts.js:

```
import React, { Component } from 'react';
import Post from './Post';
class Posts extends Component {
   constructor(props) {
      super(props);
      this.state = { posts: [],error: null,
```

```
};
 loadPosts = () => {
    fetch('https://jsonplaceholder.typicode.com/posts')
      .then((response) => {
        if (!response.ok) throw new Error('Failed to fetch posts');
        return response.json();
      })
      .then((data) => {
        const postsList = data.map((post) => new Post(post.id, post.title,
post.body));
        this.setState({ posts: postsList });
      })
      .catch((err) => {
        this.setState({ error: err.message });
        alert('Error fetching posts: ' + err.message);
      });
 };
 componentDidMount() {
    this.loadPosts();
 componentDidCatch(error, info) {
    alert('Something went wrong: ' + error.message);
 render() {
 const { posts } = this.state;
 return (
   <div>
     <h1>Blog Posts</h1>
      {posts.map((post) => (
        <div key={post.id} style={{ borderBottom: 'lpx solid #ccc',</pre>
marginBottom: '10px' }}>
          <h4>Post ID: {post.id}</h4>
          <h2>{post.title}</h2>
          {post.body}
       </div>
      ) ) }
    </div>
 );}}
export default Posts;
```

OUTPUT:



EXERCISE 5:

My Academy team at Cognizant want to create a dashboard containing the details of ongoing and completed cohorts. A react application is created which displays the detail of the cohorts using react component. You are assigned the task of styling these react components.

CODE:

File: App.js:

```
import React from 'react';
import './App.css';
import CohortDetails from './Components/CohortDetails';
import styles from './Components/CohortDetails.module.css';
function App() {
 const cohortData = [
      name: 'INTADMDF10 - .NET FSD',
      startDate: '22-Feb-2022',
      status: 'Scheduled',
      coach: 'Aathma',
      trainer: 'Jojo Jose'
    },
      name: 'ADM21JF014 - Java FSD',
      startDate: '10-Sep-2021',
      status: 'Ongoing',
      coach: 'Apoorv',
```

```
trainer: 'Elisa Smith'
    },
     name: 'CDBJF21025 - Java FSD',
     startDate: '24-Dec-2021',
     status: 'Ongoing',
     coach: 'Aathma',
     trainer: 'John Doe'
 ];
 return (
   <div className="App">
     <h2>Cohorts Details</h2>
     <div className={styles.container}>
       {cohortData.map((cohort, index) => (
         <CohortDetails key={index} {...cohort} />
       ))}
     </div>
   </div>
 );
export default App;
```

File:Cohort.js:

File:CohortDetails.module.css:

```
.container {
    display: flex;
    gap: 20px;
    justify-content: center;
    flex-wrap: wrap;
}

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

dt {
    font-weight: 500;
    text-align: left;
}
```



☆

Cohorts Details

INTADMDF10 - .NET FSD

Started On:

22-Feb-2022

Current Status :

Scheduled

Coach :

Aathma

Trainer

Jojo Jose

ADM21JF014 - Java FSD

Started On:

10-Sep-2021

Current Status : Ongoing

Coach :

Trainer

Apoorv Elisa Smith

CDBJF21025 - Java FSD

Started On:

24-Dec-2021

Current Status :

Ongoing

Coach : Aathma

Trainer

John Doe