### **DotNet-FSE Mandatory Hands-On**

WEEK-7 NAME: Sri Ranjani Priya P

#### **EXERCISE 1:**

Create a React application that displays a list of trainers and shows detailed information about a selected trainer using dynamic routing. Explain the approach, tools used, and provide code snippets for important components.

#### CODE:

### File: App.js

```
import React from 'react';
import { BrowserRouter, Routes, Route, Link } from 'react-router-dom';
import Home from './Home';
import TrainersList from './TrainersList';
import TrainerDetails from './TrainerDetails';
import trainersMock from './trainersMock'; function App() {
 return (
   <BrowserRouter>
      <nav>
        <Link to="/">Home</Link> | <Link to="/trainers">Trainers</Link>
      </nav>
      <Routes>
        <Route path="/" element={<Home />} />
        <Route path="/trainers" element={<TrainersList</pre>
trainers={trainersMock} />} />
        <Route path="/trainer/:id" element={<TrainerDetails />} />
      </Routes>
   </BrowserRouter>
 );
export default App;
```

#### File: Trainer.is

```
class Trainer {
  constructor(trainerId, name, email, phone, stream, skills) {
    this.trainerId = trainerId;
    this.name = name;
    this.email = email;
```

```
this.phone = phone;
this.stream = stream;
this.skills = skills;
}
export default Trainer;
```

#### File: TrainerDetails.js

```
import React from 'react';
import { useParams } from 'react-router-dom';
import trainersMock from './trainersMock';
function TrainerDetails() {
 const { id } = useParams();
 const trainer = trainersMock.find(t => t.trainerId === id);
 if (!trainer) {
   return Trainer not found;
 return (
   <div>
     <h2>{trainer.name}'s Details</h2>
     <strong>ID:</strong> {trainer.trainerId}
     <strong>Email:</strong> {trainer.email}
     <strong>Phone:</strong> {trainer.phone}
     <strong>Technology:</strong> {trainer.stream}
     <strong>Skills:</strong> {trainer.skills.join(', ')}
   </div>
 );
export default TrainerDetails;
```

#### File: TrainerList.js

```
import React from 'react';
import { Link } from 'react-router-dom';
import trainersMock from './trainersMock';
function TrainersList({ trainers }) {
```

#### File: trainersMock.js

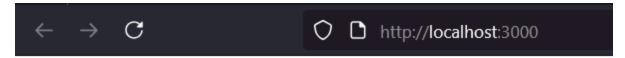
```
import Trainer from './Trainer';
const trainersMock = [
   new Trainer('t-syed8', 'Syed Khaleelullah',
'khaleelullah@cognizant.com', '97676516962', '.NET', ['C#', 'SQL Server',
'React', '.NET Core']),
   new Trainer('t-jojo', 'Jojo Jose', 'jojo@cognizant.com', '9897199231',
'Java', ['Java', 'JSP', 'Angular', 'Spring']),
   new Trainer('t-elisa', 'Elisa Jones', 'elisa@cognizant.com',
'9871212235', 'Python', ['Python', 'Django', 'Angular']),
];
export default trainersMock;
```

#### **OUTPUT:**



Home | Trainers

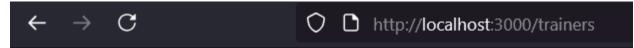
Trainer not found



Home | Trainers List

# Welcome to Trainers App

Explore our expert trainers!



Home | Trainers List

## **Trainers List**

- Syed Khaleelullah
- Jojo Jose
- Elisa Jones

Home | Trainers

## **Syed Khaleelullah's Details**

ID: t-syed8

Email: khaleelullah@cognizant.com

**Phone:** 97676516962

Technology: .NET

Skills: C#, SQL Server, React, .NET Core



Home | Trainers

Trainer not found

#### **EXERCISE 2:**

Create a React Application named "shoppingapp" with a class component named "OnlineShopping" and "Cart".

#### **CODE:**

File: App.js:

```
import React from 'react';
import './App.css';

function App() {
   const items = [
```

```
{ name: 'Laptop', price: 80000 },
   { name: 'TV', price: 120000 },
   { name: 'Washing Machine', price: 50000 },
   { name: 'Mobile', price: 30000 },
   { name: 'Fridge', price: 70000 }
 ];
 return (
  <div className="App">
    <h1>Items Ordered :</h1>
    <thead>
       Name
         Price
       </thead>
      {items.map((item, index) => (
         {item.name}
          {item.price}
         ) ) }
      </div>
 );
export default App;
```

## File:App.css

```
.App {
  text-align: center;
  margin-top: 50px;
}
h1 {
  color: green;
```

```
font-family: Arial, sans-serif;
}

table {
  margin: 0 auto;
  border-collapse: collapse;
  font-family: Arial, sans-serif;
  color: green;
}

table, th, td {
  border: 1px solid gray;
  padding: 10px 20px;
}

th {
  font-weight: bold;
  text-align: center;
}
```

#### **OUTPUT:**

O http://localhost:3000

## **Items Ordered:**

Name	Price
Laptop	80000
TV	120000
Washing Machine	50000
Mobile	30000
Fridge	70000

#### **EXERCISE 3:**

Create a React App "counterapp" which will have a component named "CountPeople" which will have 2 methods.

#### **CODE:**

#### File:App.js

### File:CountPeople.js

```
import React, { Component } from 'react';
class CountPeople extends Component {
 constructor() {
   super();
    this.state = {
     entrycount: 0,
     exitcount: 0
    };
 updateEntry = () => {
    this.setState((prevState) => {
      return { entrycount: prevState.entrycount + 1 };
    });
  };
 updateExit = () => {
    this.setState((prevState) => {
     return { exitcount: prevState.exitcount + 1 };
    });
```

```
};
 render() {
    return (
      <div style={{ display: 'flex', justifyContent: 'center', marginTop:</pre>
'100px' }}>
        <div style={{ marginRight: '100px' }}>
          <button onClick={this.updateEntry} style={{ backgroundColor:</pre>
'green', color: 'white' }}>Login</button>
          <span style={{ marginLeft: '10px' }}>{this.state.entrycount}
People Entered!!!</span>
        </div>
        <div>
          <button onClick={this.updateExit} style={{ backgroundColor:</pre>
'green', color: 'white' }}>Exit</button>
          <span style={{ marginLeft: '10px' }}>{this.state.exitcount}
People Left!!!</span>
        </div>
      </div>
    );
export default CountPeople;
```

#### **OUTPUT:**

O http://localhost:3000

Login 3 People Entered!!!

Exit 2 People Left!!!

#### **EXERCISE 4:**

Build a React application that displays a list of 11 cricket players with their names, country, and scores.

#### CODE:

#### File:App.js

```
import React from 'react';
import AllPlayers from './components/AllPlayers';
import ScoreAbove70 from './components/ScoreAbove70';
import OddPlayers from './components/OddPlayers';
import EvenPlayers from './components/EvenPlayers';
import IndianPlayers from './components/IndianPlayers';
const players = [
    { name: "Virat Kohli", score: 95 },
    { name: "Rohit Sharma", score: 85 },
    { name: "Shubman Gill", score: 60 },
    { name: "Ravindra Jadeja", score: 45 },
    { name: "KL Rahul", score: 72 },
    { name: "Rishabh Pant", score: 30 },
    { name: "Hardik Pandya", score: 88 },
    { name: "Suryakumar Yadav", score: 54 },
    { name: "Jasprit Bumrah", score: 92 },
    { name: "Mohammed Shami", score: 66 },
    { name: "Kuldeep Yadav", score: 71 },
];
function App() {
```

#### File: All Players. js

#### File:EvenPlayers.js

#### File:IndianPlayers.js

#### File:OddPlayers.js

### File:ScoreAbove70.js

#### **OUTPUT:**

## Cricket App

### All Players with Scores

- Virat Kohli 95
- Rohit Sharma 85
- Shubman Gill 60
- Ravindra Jadeja 45
- KL Rahul 72
- Rishabh Pant 30
- Hardik Pandya 88
- Suryakumar Yadav 54
- Jasprit Bumrah 92
- Mohammed Shami 66
- Kuldeep Yadav 71

### Players with Score $\geq 70$

- Virat Kohli 95
- Rohit Sharma 85
- KL Rahul 72
- Hardik Pandya 88
- Jasprit Bumrah 92
- Kuldeep Yadav 71

## **Odd Index Players**

- Rohit Sharma
- · Ravindra Jadeja
- Rishabh Pant
- Suryakumar Yadav
- Mohammed Shami

## **Even Index Players**

- Virat Kohli
- Shubman Gill
- KL Rahul
- Hardik Pandya
- Jasprit Bumrah
- Kuldeep Yadav

## List of Indian Players

- Virat Kohli
- Rohit Sharma
- Shubman Gill
- · Ravindra Jadeja
- KL Rahul
- Rishabh Pant
- Hardik Pandya
- Suryakumar Yadav
- Jasprit Bumrah
- Mohammed Shami
- Kuldeep Yadav

#### **EXERCISE 5:**

Create a React Application named "officespacerentalapp" which uses React JSX to create elements, attributes and renders DOM to display the page.

#### CODE:

#### FILE:App.js

```
import React from 'react';
import './App.css';
import officeImage from './office space.jpg';
function App() {
 const ItemName = { Name: "DBS", Rent: 50000, Address: "Chennai" };
height="25%" />;
   colors.push('textRed');
   colors.push('textGreen');
 const rentColorClass = ItemName.Rent <= 60000 ? 'textRed' : 'textGreen';</pre>
      <h1 className="main-heading">{element}, at Affordable Range</h1>
       <h3>Address: {ItemName.Address}</h3>
```

```
}
export default App;
```

#### File:App.css

```
.App {
  display: flex;
  flex-direction: column;
  align-items: center;
  text-align: center;
 margin-top: 50px;
  font-family: Arial, sans-serif;
.main-heading {
  font-size: 32px;
  font-weight: bold;
 margin-bottom: 20px;
img {
 margin-bottom: 30px;
.info-container {
  text-align: left;
.info-container h1,
.info-container h3 {
 margin: 5px 0;
  font-weight: normal;
  font-size: 20px;
```

```
.rent {
  font-weight: bold;
}
.textRed {
  color: red;
}
.textGreen {
  color: green;
}
```

#### **OUTPUT:**

http://localhost:3000

## Office Space, at Affordable Range



Name: DBS Rent Rs. 50000 Address: Chennai