

# Digital Nurture 4.0 Deep Skilling

## Week 7

**Superset id: 6372485**

**Name: Sangamithra U**

**Hands on 1**

Create a React Application named “cricket app” with the following components:

### 1. List of Players

- Declare an array with 11 players and store details of their names and scores using the map feature of ES6
- Filter the players with scores below 70 using arrow functions of ES6.

### 2. Indian Players

- a. Display the Odd Team Player and Even Team players using the Destructuring features of ES6
- b. Declare two arrays T20players and Ranji Trophy players and merge the two arrays and display them using the Merge feature of ES6

Display these two components in the same home page using a simple if else in the flag variable.

```
import React, { useState } from 'react';
import ListofPlayers from './Components/ListofPlayers';
import IndianPlayers from './Components/IndianPlayers';
import './App.css';
import './Components/ComponentStyles.css';

function App() {
  const [flag, setFlag] = useState(true);

  return (
    <div className="App">
      <h1> 🏏 Cricket App </h1>
      <button className="toggle-btn" onClick={() => setFlag(!flag)}>
        {flag ? 'View Indian Players' : 'View Player List'}
      </button>

      <div className="component-container">
        {flag ? <ListofPlayers /> : <IndianPlayers />}
      </div>
    </div>
  );
}

export default App;
```

```

const lowScorers = players.filter(player => player.score < 70);
return (
  <>
    <h2>All Players</h2>
    <table className="player-table">
      <thead>
        <tr>
          <th>Player Name</th>
          <th>Score</th>
        </tr>
      </thead>
      <tbody>
        {players.map((player, index) => (
          <tr key={index}>
            <td>{player.name}</td>
            <td>{player.score}</td>
          </tr>
        ))}
      </tbody>
    </table>
  </>
)

```

```

const IndianPlayers = () => {
  const team = ['Virat', 'Rohit', 'Rahul', 'Gill', 'Hardik', 'Jadeja', 'Bumrah', 'Shami'];
  const oddPlayers = team.filter((_, index) => index % 2 === 0);
  const evenPlayers = team.filter((_, index) => index % 2 !== 0);
  const T20Players = ['Rohit', 'Gill', 'Surya'];
  const RanjiTrophyPlayers = ['Pujara', 'Rahane', 'Karun'];
  const allPlayers = [...T20Players, ...RanjiTrophyPlayers];
  return (
    <>
      <h2>Odd Team Players</h2>
      <ul className="player-list">
        {oddPlayers.map((player, index) => <li key={index}>{player}</li>)}
      </ul>


      <h2>Even Team Players</h2>
      <ul className="player-list">
        {evenPlayers.map((player, index) => <li key={index}>{player}</li>)}
      </ul>

      <h2>Merged T20 + Ranji Trophy Players</h2>
      <ul className="player-list">
        {allPlayers.map((player, index) => <li key={index}>{player}</li>)}
      </ul>
    </>
  );
};

```

## Output :

When flag = true

 **Cricket App**

View Indian Players

**All Players**

Player Name	Score
Virat Kohli	95
Rohit Sharma	88
KL Rahul	45
Shubman Gill	70
Suryakumar Yadav	68
Hardik Pandya	92
Ravindra Jadeja	85
Jasprit Bumrah	60
Mohammed Shami	77
R Ashwin	55
Kuldeep Yadav	72

### Players with Score Below 70

Player Name	Score
KL Rahul	45
Suryakumar Yadav	68
Jasprit Bumrah	60
R Ashwin	55

When flag=false



## Cricket App

[View Player List](#)

### Odd Team Players

Virat

Rahul

Hardik

Bumrah

### Even Team Players

Rohit

Gill

Jadeja

Shami

### Merged T20 + Ranji Trophy Players

Rohit

Gill

Surya

Pujara

Rahane

Karun

## Hands on 2

Create a React Application named “office space rental app” which uses React JSX to create elements, attributes and renders DOM to display the page.

- Create an element to display the heading of the page.
- Attribute to display the image of the office space
- Create an object of office to display the details like Name, Rent and Address.
- Create a list of Object and loop through the office space item to display more data.
- To apply css, Display the color of the Rent in Red if it's below 60000 and in Green if it's above 60000.

```
const getRentStyle = (rent) => ({
  color: rent < 60000 ? 'red' : 'green',
  fontWeight: 'bold'
});

return (
  <div className="App">
    <h1>🏢 Office Space Rental App</h1>

    <h2>Available Spaces</h2>
    <div className="card-container">
      {officeList.map((item, index) => (
        <div className="card" key={index}>
          <img src={item.image} alt={item.name} />
          <h3>{item.name}</h3>
          <p><strong>Address:</strong> {item.address}</p>
          <p>
            <strong>Rent:</strong>{' '}
            <span style={getRentStyle(item.rent)}>₹{item.rent}</span>
          </p>
        </div>
      )
      )}
    </div>
  </div>
);
```

Output :

## Office Space Rental App

### Available Spaces



shutterstock.com · 1722517036

#### Innovate Space

**Address:** Koramangala, Bengaluru

**Rent:** ₹45000



#### Urban Office

**Address:** Andheri, Mumbai

**Rent:** ₹75000

## Hands on 3

Create a React application named **"event examples app"** to handle various form events.

- Include an **"Increment"** button to increase a counter and a **"Decrement"** button to decrease it.
- The "Increment" button should invoke multiple methods:
  - One method to increment the counter value.
  - Another method to display a static message like **"Hello Member1"**.
- Create a **"Say Welcome"** button that invokes a function taking **"Welcome"** as an argument and displays it.
- Add a **"Click on me"** button that demonstrates a **synthetic event**, showing the message **"I was clicked!"** when triggered.
- Create a separate component named **"Currency Converter"**.
  - This component should include two input fields: one for **amount in Indian Rupees** and another for the **target currency** (e.g., Euro).
  - Include a **"Submit"** button that, when clicked, triggers the **handle Submit** event.
  - The event handler should simulate or alert a conversion of the given amount from rupees to the specified currency.

Code :

```
import React, { useState } from 'react';
import './App.css';
import CurrencyConverter from './CurrencyConverter';

function App() {
  const [count, setCount] = useState(0);

  const handleIncrement = () => {
    incrementValue();
    sayHello();
  };
  const incrementValue = () => {
    setCount(count + 1);
  };
  const sayHello = () => {
    alert("Hello Member1!");
  };
  const handleDecrement = () => {
    setCount(count - 1);
  };
  const sayWelcome = (msg) => {
    alert(`Hello! ${msg}`);
  };
  const handlePress = () => {
    alert("I was clicked!");
  };
}
```

```

return (
  <div className="App">
    <div className="left-panel">
      <button onClick={handleIncrement}>Increment</button>
      <button onClick={handleDecrement}>Decrement</button>
      <button onClick={() => sayWelcome("Welcome")}>Say welcome</button>
      <button onClick={handlePress}>Click on me</button>
    </div>

    <div className="currency-section">
      <h2>Currency Converter!!!</h2>
      <CurrencyConverter />
    </div>
  </div>
);
}

export default App;

```

```

function CurrencyConverter() {
  const [rupees, setRupees] = useState('');
  const [euro, setEuro] = useState(null);
  const handleSubmit = (e) => {
    e.preventDefault();
    const rate = 0.011; // 1 INR = 0.011 Euro (example rate)
    const converted = (parseFloat(rupees) * rate).toFixed(2);
    setEuro(converted);
  };
  return (
    <div className="currency">
      <h2>Currency Converter</h2>
      <form onSubmit={handleSubmit}>
        <label>
          Enter amount in ₹ INR:
          <input
            type="number"
            value={rupees}
            onChange={(e) => setRupees(e.target.value)}
            required
          />
        </label>
        <button type="submit">Convert</button>
      </form>
      {euro && (
        <p>₹ Equivalent in Euro: €{euro}</p>
      )}
    </div>
  );
}

```



Output :

Increment

Decrement

Say welcome

Click on me

## Currency Converter!!!

### Currency Converter

Enter amount in ₹ INR:

Convert

Increment

Decrement

Say welcome

Click on me

## Currency Converter!!!

### Currency Converter

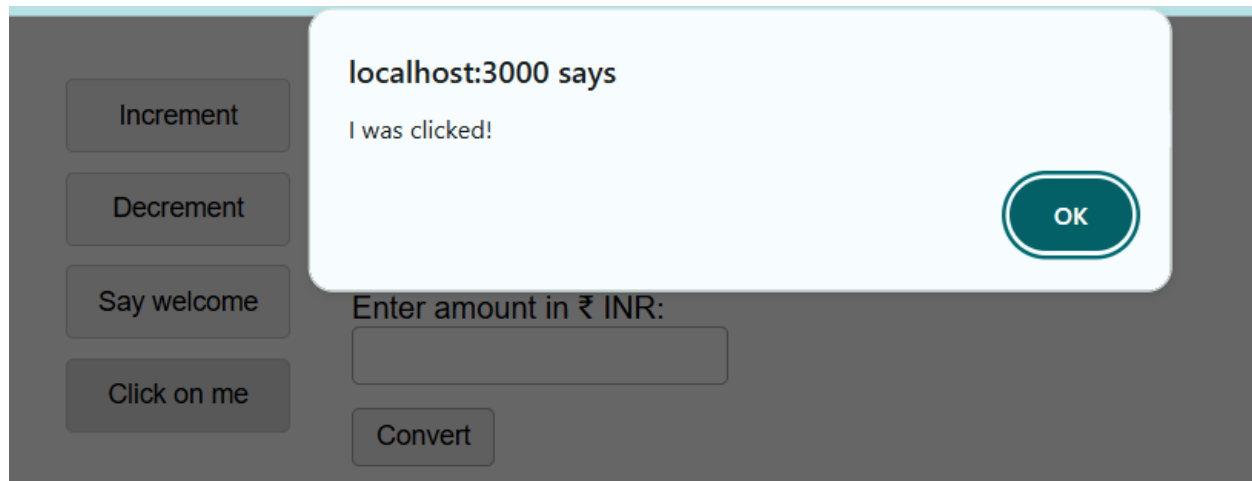
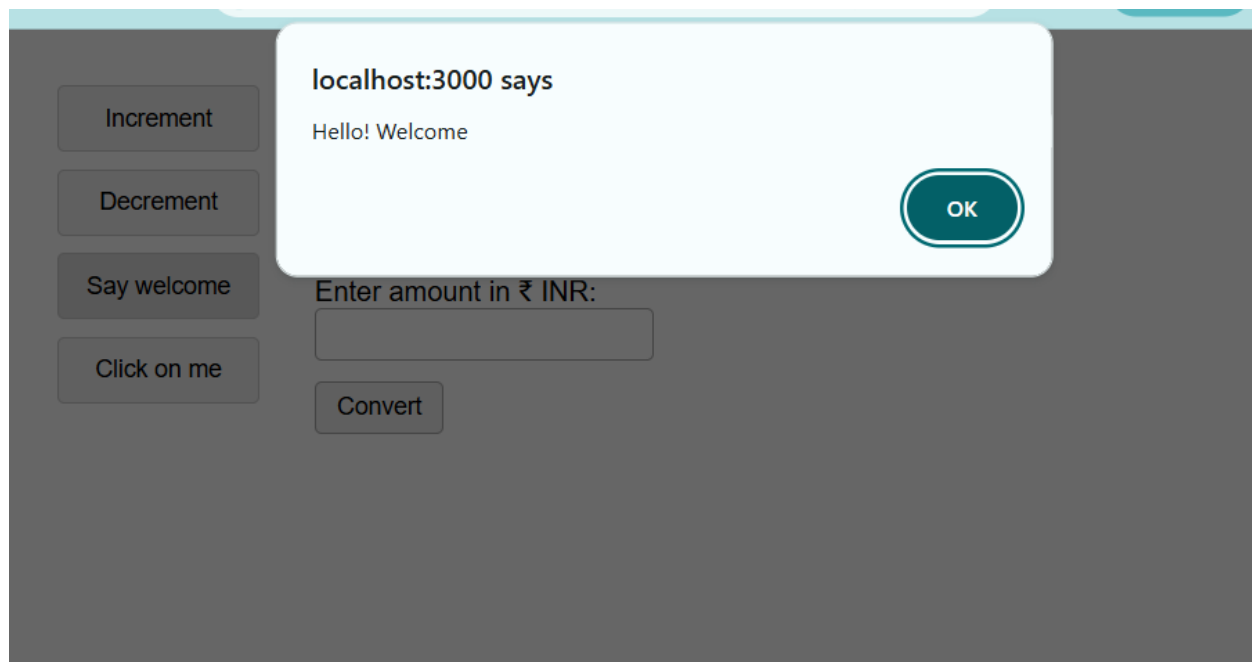
Enter amount in ₹ INR:

12

Convert



Equivalent in Euro: €0.13



## Hands on 4

Create a React Application named “ticket booking app” where the guest user can browse the page where the flight details are displayed whereas the logged in user only can book tickets.

The Login and Logout buttons should accordingly display different pages. Once the user is logged in the User page should be displayed. When the user clicks on Logout, the Guest page should be displayed.

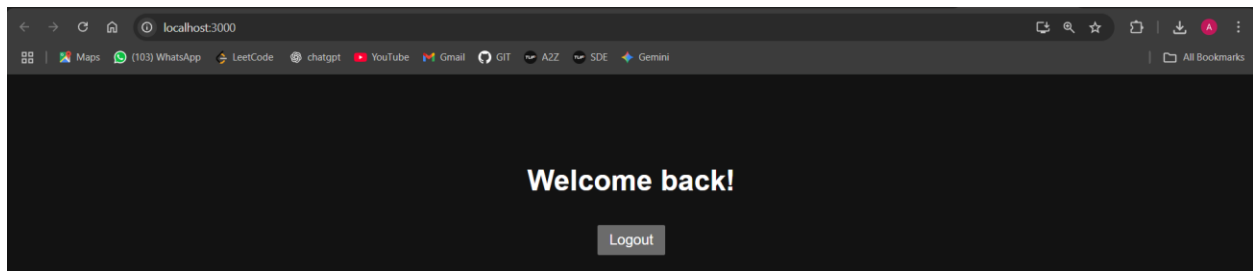
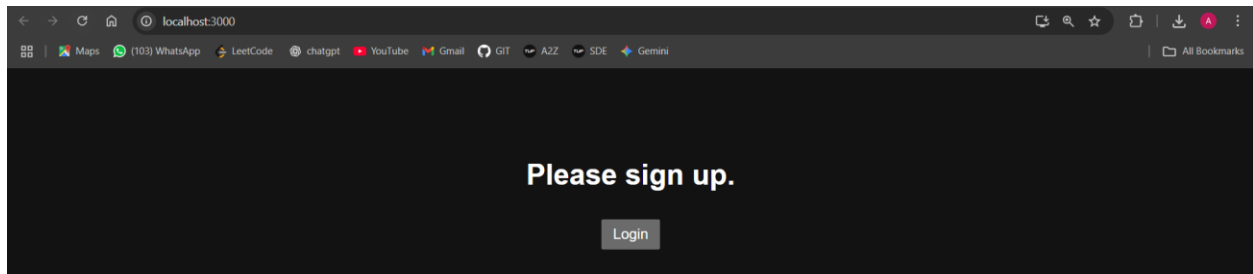
### Code:

```
JS App.js M X JS LoginControl.js U # App.css M
src > JS App.js > ...
1  import React from 'react';
2  import './App.css';
3  import LoginControl from './LoginControl';
4
5  function App() {
6    return (
7      <div className="App">
8        <LoginControl />
9      </div>
10    );
11  }
12
13  export default App;
14
```

```
src > # App.css > ...
1  .App {
2    text-align: center;
3    margin-top: 100px;
4    font-family: Arial, sans-serif;
5  }
6
7  button {
8    font-size: 16px;
9    padding: 6px 12px;
10   margin-top: 10px;
11   cursor: pointer;
12 }
13
```

```
src > JS LoginControl.js > LoginControl
1  import React, { useState } from 'react';
2  function UserGreeting() {
3    return <h1>Welcome back!</h1>;
4  }
5  function GuestGreeting() {
6    return <h1>Please sign up.</h1>;
7  }
8  function Greeting({ isLoggedIn }) {
9    if (isLoggedIn) {
10     return <UserGreeting />;
11   }
12   return <GuestGreeting />;
13 }
14 function LoginButton({ onClick }) {
15   return <button onClick={onClick}>Login</button>;
16 }
17 function LogoutButton({ onClick }) {
18   return <button onClick={onClick}>Logout</button>;
19 }
20 function LoginControl() {
21   const [isLoggedIn, setIsLoggedIn] = useState(false);
22   const handleLoginClick = () => setIsLoggedIn(true);
23   const handleLogoutClick = () => setIsLoggedIn(false);
24   let button;
25   if (isLoggedIn) {
26     button = <LogoutButton onClick={handleLogoutClick} />;
27   } else {
28     button = <LoginButton onClick={handleLoginClick} />;
29   }
30   return (
31     <div>
32       <Greeting isLoggedIn={isLoggedIn} />
33       {button}
34     </div>
35   );
36 }
```

## Output :



## Hands on 5

Estimated time to complete this lab: **60 minutes**.

Create a React App named “bloggerapp” in with 3 components.

1. Book Details
2. Blog Details
3. Course Details

Implement this with as many ways possible of Conditional Rendering.

**Code :**

```
1  import React from 'react';
2  import './App.css';
3  import CourseDetails from './components/CourseDetails';
4  import BookDetails from './components/BookDetails';
5  import BlogDetails from './components/BlogDetails';
6
7  function App() {
8    return (
9      <div className="App">
10        <div className="container">
11          <div className="column">
12            <CourseDetails />
13          </div>
14
15          <div className="divider"></div>
16
17          <div className="column">
18            <BookDetails />
19          </div>
20
21          <div className="divider"></div>
22
23          <div className="column">
24            <BlogDetails />
25          </div>
26        </div>
27      </div>
28    );
29  }
30
31  export default App;
32
```

```

src > # App.css > ...
1  .App {
2    font-family: Arial, sans-serif;
3    padding: 40px;
4  }
5
6  .container {
7    display: flex;
8    justify-content: space-between;
9    align-items: flex-start;
10   text-align: left;
11 }
12
13 .column {
14   flex: 1;
15   padding: 0 20px;
16 }
17
18 .divider {
19   width: 4px;
20   background-color: green;
21   height: auto;
22 }
23

```

```

src > components > JS CourseDetails.js > ...
3  function CourseDetails() {
4
5
6
7
8
9    return (
10     <div className="column">
11       <h2>Course Details</h2>
12       {courses.map((course, index) => (
13         <div key={index}>
14           <strong>{course.name}</strong>
15           <p>{course.date}</p>
16         </div>
17       ))}
18     </div>
19   );
20 }
21
22 export default CourseDetails;

```

```

1  import React from 'react';
2
3  function BookDetails() {
4    const books = [
5      { title: "Master React", price: 670 },
6      { title: "Deep Dive into Angular 11", price: 800 },
7      { title: "Mongo Essentials", price: 450 }
8    ];
9
10   return (
11     <div className="column">
12       <h2>Book Details</h2>
13       {books.map((book, index) => (
14         <div key={index}>
15           <strong>{book.title}</strong>
16           <p>{book.price}</p>
17         </div>
18       ))}
19     </div>
20   );
21 }
22
23 export default BookDetails;

```

```

src > components > JS BlogDetails.js > ...
1  import React from 'react';
2
3  function BlogDetails() {
4    const blogs = [
5      {
6        title: "React Learning",
7        author: "Stephen Biz",
8        content: "Welcome to learning React!"
9      },
10     {
11       title: "Installation",
12       author: "Schwezenier",
13       content: "You can install React from npm."
14     }
15   ];
16
17   return (
18     <div className="column">
19       <h2>Blog Details</h2>
20       {blogs.map((blog, index) => (
21         <div key={index}>
22           <strong>{blog.title}</strong>
23           <p><b>{blog.author}</b></p>
24           <p>{blog.content}</p>
25         </div>
26       ))}
27     </div>
28   );
29 }
30
31 export default BlogDetails;

```



## Output :

Course Details	Book Details	Blog Details
Angular	Master React	React Learning
4/5/2021	670	Stephen Biz
React	Deep Dive into Angular 11	Welcome to learning React!
6/3/20201	800	Installation
	Mongo Essentials	Schwezenier
	450	You can install React from npm.