



DEPARTMENT OF COMPUTER SCIENCE
FORMAN CHRISTIAN COLLEGE
(A CHARTERED UNIVERSITY)
LAHORE

Web Application Development
CSCS342
Lab Manual



DEPARTMENT OF COMPUTER SCIENCE
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LAB #06: Javascript

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Objective:

This lab is aimed to practice and revise your CSS, Html, JavaScript and React. In this lab you will have an opportunity to practice:

- JS inside JSX
- React Props

Task 1: Fix the h1 in the code below to use the **timeOfDay** string and see the output displayed. Attach the screenshot as well. [5 pts.]

```
import React from "react"
import ReactDOM from "react-dom"

function App() {
    const date = new Date()
    const hours = date.getHours()
    let timeOfDay

    if (hours < 12) {
        timeOfDay = "morning"
    } else if (hours >= 12 && hours < 17) {
        timeOfDay = "afternoon"
    } else {
        timeOfDay = "night"
    }

    return (
        <h1>Good afternoon!</h1>
    )
}

ReactDOM.render(<App />, document.getElementById("root"))
```

Your code: (The line you changed)

```
<h1>Good {timeOfDay}!</h1>
export default App;
```

Screenshot of the output:

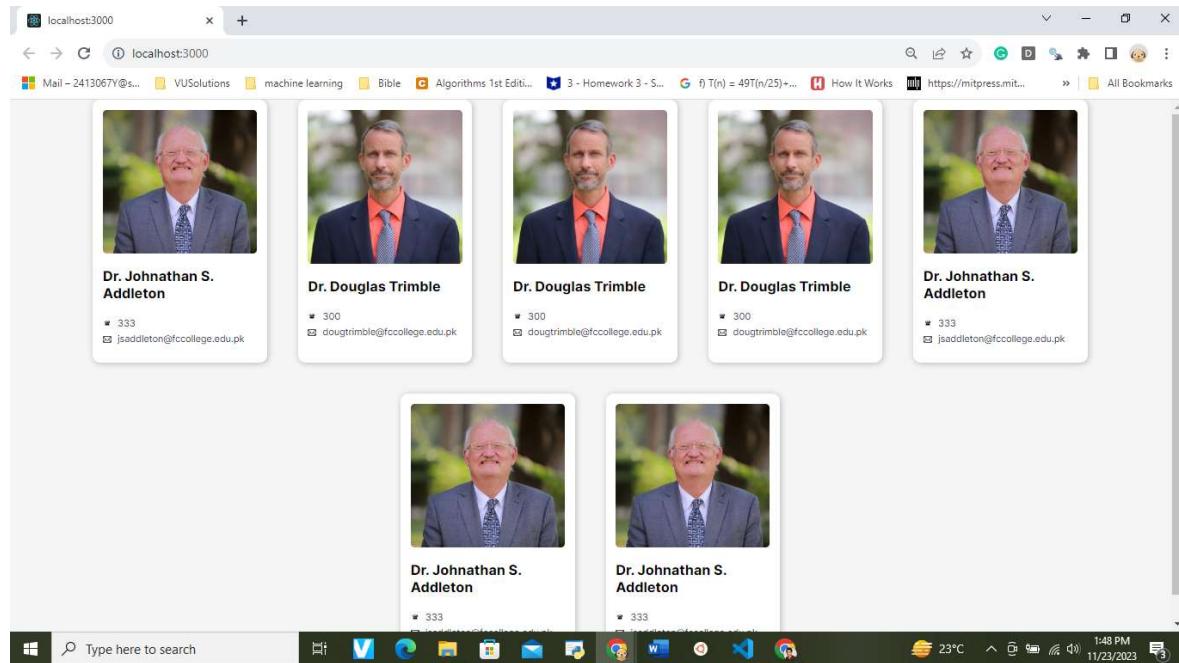


Good morning!

Task 2: Design a web page like following using Html, CSS and React. You are required to go to FC College website and choose 10 teachers of your choice from Computer Science department and display their information as shown in the example. (You can Style it as you wish however it has to be appealing). [15 pts]

Note: It is compulsory to use **Props**.

Sample:



Your code:

App.js:

```
import './App.css';
import Teachers from './components/Teachers';

function App() {
  return (
    <div className="app">
      <h1>Computer Science Faculty</h1>
      <Teachers />
    </div>
  );
}

export default App;
```

Teachers.js:

```
const teachersData = [
```

```

        { name: 'Dr. Saba Khalil Toor', phone: '360', email:
'sabakhalil@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Dr-Saba-Khalil-Toor-scaled.jpg' },
        { name: 'Dr. Aasia Khanum', phone: '360', email:
'aasiakhanum@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Dr.-Aasia-Khanum-scaled.jpg' },
        { name: 'Dr. Mubashar Mushtaq', phone: '360', email:
'mubasharmushtaq@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Dr-Mubashar-Mushtaq-scaled.jpg' },
        { name: 'Dr. Maria Tamoor', phone: '360', email:
'mariatamoor@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Maria-Tamoor-scaled.jpg' },
        { name: 'Dr. Nosheen Sabahat', phone: '360', email:
'nosheensabahat@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Nosheen-Sabahat-scaled.jpg' },
        { name: 'Dr. Muhammad Salman Chaudhry', phone: '360', email:
'salmanchaudhry@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Muhammad-Salman-Chaudhry-scaled.jpg' },
        { name: 'Dr. Sarwan Altaf Abbasi', phone: '360', email:
'sarwanabbasi@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Dr-Sarwan-Altaf-Abbasi-scaled.jpg' },
        { name: 'Dr. Sidra Minhas', phone: '360', email:
'sidraminhas@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Sidra-Minhas-scaled.jpg' },
        { name: 'Dr. Saad Bin Saleem', phone: '360', email:
'saadsaleem@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Saad-Bin-Saleem-scaled.jpg' },
        { name: 'Dr. Umber Nisar', phone: '360', email:
'umbernisar@fcccollege.edu.pk', image: 'https://www.fcccollege.edu.pk/wp-
content/uploads/Ambar-Nisar-scaled.jpg' }

];

const Teachers = () => {
  return (
    <div className="teachers-container">
      {teachersData.map((teacher, index) => (
        <div className="teacher-card" key={index}>
          <img src={teacher.image} alt={teacher.name} />
          <div className="card-details">
            <h3>{teacher.name}</h3>
            <p>📞 {teacher.phone}</p>
            <p>✉️ {teacher.email}</p>
          </div>
        </div>
      )));
    </div>
  );
};

```

```
export default Teachers;
```

App.css:

```
/* App.css */

body {
  font-family: 'Arial', sans-serif;
  margin: 0;
  padding: 0;
  background-color: rgb(51, 1, 80);
}

.app {
  max-width: 1200px;
  margin: 0 auto;
  padding: 20px;
}

h1 {
  text-align: center;
  color: #ffffff;
}

/* Teachers.css */

.teachers-container {
  display: flex;
  flex-wrap: wrap;
  justify-content: space-around;
}

.teacher-card {
  border: 2px solid #ddd;
  margin: 10px;
  padding: 10px;
  width: 200px;
  text-align: center;
  background-color: #f8f8f8a4;
  border-radius: 10px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  transition: transform 0.2s;
  overflow: hidden;
  display: flex;
  flex-direction: column;
}

.teacher-card:hover {
  transform: scale(1.05);
```

```
}

.teacher-card img {
  width: 100%;
  height: auto;
  border-bottom: 1px solid #ddd;
  border-radius: 10px;
}

.card-details {
  padding: 10px;
  padding: 10px;
  height: 100%;
}

h3 {
  margin-bottom: 5px;
  color: #333;
}

p {
  font-size: 12px;
  color: #666;
  white-space: pre-wrap;
  /* Allow text to wrap */
  margin: 3px;
}
```

Screenshot of the output:

Computer Science Faculty



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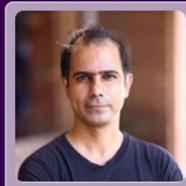
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