



Vidyavardhini's College of Engineering and Technology
Department of Artificial Intelligence & Data Science

AY: 2025-26

Class:	TE	Semester:	✓
Course Code:	CSC502	Course Name:	WC

Name of Student:	Dhanashree Gaoncu
Roll No. :	21
Assignment No.:	03
Title of Assignment:	APPlying concept of react fundamental to develop front end applications.
Date of Submission:	22/08/2025
Date of Correction:	22/08/2025

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	5
Demonstrated Knowledge	3	2
Legibility	2	2
Total	10	9

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	3-4	1-2
Demonstrated Knowledge	3	2	1
Legibility	2	1	0

Checked by

Name of Faculty :

Signature : Bharat

Date : 22/9/25

Implement a React component that manages a contact list. Users should be able to add contacts with fields for name, phone, number, and email. Include a search bar that filters the list of contacts based on the input. Provide a "Remove" button next to each contact for deletion.

```
import React from "react";
export default function ContactList() {
  const [contact, setContact] = useState([]);
  const [form, setForm] = useState({ name: "", phone: "", email: "" });
  const [search, setSearch] = useState("");
}
```

```
const addContact = () => {
  if (!form.name || !form.phone || !form.email)
    return;
  setContacts([...contacts, { ...form, id: Date.now() }]);
  setForm({ name: "", phone: "", email: "" });
}
```

```
setForm({ name: "", phone: "", email: "" });
}
```

```
const removeContact = (id) => setContacts(contacts.filter((c) => c.id !== id));
```

```
const filtered = contacts.filter((c) =>
  c.name.toLowerCase().includes(search.toLowerCase()) ||
  c.phone.includes(search));

```

c.email.toLowerCase().search(c).includes(search) to
lower case

```
return (
  <div>
    <h2> Contact list </h2>
    <input placeholder="Name" value={form.name} onChange={(e) => setForm({ ...form, name: e.target.value })} />
    <input placeholder="Phone" value={form.phone} onChange={(e) => setForm({ ...form, phone: e.target.value })} />
    <input placeholder="Email" value={form.email} onChange={(e) => setForm({ ...form, email: e.target.value })} />
    <button onClick={() => addContact()}> Add </button>
    <input placeholder="Search" value={search} onChange={(e) => setSearch(e.target.value)} />
  </div>
  { filtered.map((c) => (
    <li key={c.id}>
      {c.name} - {c.phone} - {c.email}
      <button onClick={() => removeContact(c.id)}> Remove </button>
    </li>
  )))
  </ul>
</div>
);
```

wrote a code making use of react hooks that displays four buttons namely, "Red", "Blue", "Green", "Yellow". On clicking any of these buttons, the code displays the message that you have selected that particular color.

```
# import React, {useState} from "React";
export default function ColorSelector() {
  const [color, setColor] = useState("");
  return (
    <div style={{ textAlign: "center", margin: "50px" }>
      <h2> Select a color </h2>
      <div style={{ margin: "20px" }>
        <button onClick={() => setColor("Red")}>
          Red </button>
        <button onClick={() => setColor("Green")}>
          Green </button>
        <button onClick={() => setColor("Blue")}>
          Blue </button>
        <button onClick={() => setColor("Yellow")}>
          Yellow </button>
      - </div>
      {color} && <h3> You have selected: {color} </h3>
    </div>
  );
}
```

Q57 write the code making use of Hooks useState function that displays the number of times button named "CLICK" is clicked.

→ import React, {useState} from "react";

```
export default function ClickCounter() {  
  const [count, setCount] = useState(0);
```

return (

```
    <div style={{textAlign: "center", marginTop: "50px"}>
```

```
      <h2> Button Click Counter </h2>
```

```
      <button onClick={() => setCount(count + 1)}>
```

CLICK </button>

```
      <p> The button has been clicked {count}
```

times </p>

```
    </div>
```

);

```
}
```