## TASK-11

### Student Attendance Tracker:

- 11. Create a Stateful Component:
- Build a `AttendanceTracker.jsx` component to track the attendance of students in a class.

## Step 1: Set Up Your React Project:

1. Create the React app:

```
npx create-react-app attendance-tracker cd attendance-tracker
```

npm install web-vitals

## Step 2: Set Up the AttendanceTracker.jsx Component:

Create a new file AttendanceTracker.jsx inside the src folder.

```
import React, { useState } from 'react';
import './AttendanceTracker.css'; // Import the CSS file for the component styles
const AttendanceTracker = () => {
const [students, setStudents] = useState([
 { id: 1, name: 'Het Dabhi', isPresent: false },
 { id: 2, name: 'Dhruv Dabhi', isPresent: false },
 { id: 3, name: 'Deep Dabhi', isPresent: false },
 { id: 4, name: 'Raj Dabhi', isPresent: false },
]);
// Toggle attendance of each student
const toggleAttendance = (id) => {
 setStudents((prevStudents) =>
  prevStudents.map((student) =>
   student.id === id
    ? { ...student, isPresent: !student.isPresent }
    : student
 );
};
```

```
// Calculate present and absent students
 const presentCount = students.filter((student) => student.isPresent).length;
 const absentCount = students.length - presentCount;
return (
 <div className="attendance-container">
  <div className="attendance-summary">
   <h2>Attendance Summary</h2>
   <strong>Present:</strong> {presentCount}
   <strong>Absent:</strong> {absentCount}
  </div>
  <div className="students-list">
   <h3>Students</h3>
   {students.map((student) => (
     <span>{student.name}</span>
      <but
      onClick={() => toggleAttendance(student.id)}
      className={student.isPresent?'present': 'absent'}
      {student.isPresent?'Present': 'Absent'}
     </button>
     ))}
   </div>
 </div>
};
export default AttendanceTracker;
```

## Step 3: Styling (Optional): (AttendanceTracker.css)

```
/* src/AttendanceTracker.css */
.attendance-container {
  display: flex;
  flex-direction: column;
  align-items: center;
  width: 100%;
  max-width: 600px;
  padding: 20px;
```

```
margin-top: 30px;
 background-color: #fff;
 border-radius: 10px;
 box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
.attendance-summary {
 width: 100%;
 margin-bottom: 20px;
 padding: 15px;
 background-color: #f0f8ff;
 border-radius: 8px;
 text-align: center;
}
.attendance-summary h2 {
 font-size: 1.5em;
 margin-bottom: 10px;
.attendance-summary p {
 font-size: 1.2em;
 margin: 5px 0;
.students-list {
 width: 100%;
.students-list h3 {
font-size: 1.4em;
 margin-bottom: 15px;
}
ul {
 list-style-type: none;
 padding: 0;
.student-item {
 display: flex;
justify-content: space-between;
 align-items: center;
 background-color: #f9f9f9;
 margin-bottom: 10px;
 padding: 10px;
 border-radius: 8px;
 box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
```

```
button {
padding: 6px 12px;
font-size: 1em;
cursor: pointer;
border: none;
border-radius: 5px;
outline: none;
button.present {
background-color: #4CAF50;
color: white;
button.absent {
background-color: #f44336;
color: white;
button:hover {
opacity: 0.8;
}
```

# Step 4: App.js:

```
{/* Footer with "Design by Het Dabhi" */}
  <footer className="App-footer">
    @Design by Het Dabhi
  </footer>
  </div>
  );
}
export default App;
```

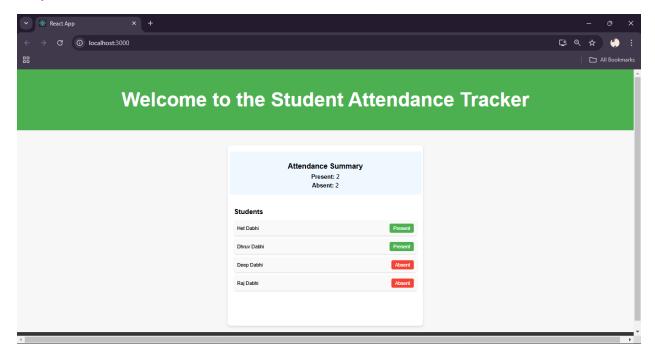
# Step 5: App.css:

```
/* src/App.css */
.App {
display: flex;
flex-direction: column;
align-items: center;
background-color: #f7f7f7;
font-family: Arial, sans-serif;
height: 100vh;
.App-header {
background-color: #4CAF50;
color: white;
width: 100%;
padding: 20px;
text-align: center;
font-size: 2em;
}
.content-wrapper {
display: flex;
justify-content: center;
width: 100%;
padding: 20px;
flex-grow: 1; /* Ensures the content takes all available space */
.App-footer {
width: 100%;
background-color: #333;
color: white;
text-align: center;
```

```
padding: 10px 0;
position: relative;
bottom: 0;
margin-top: auto; /* Pushes the footer to the bottom */
}

.App-footer p {
margin: 0;
font-size: 1em;
}
```

# **Output:**



# **Project Structure:**

```
src/
|---App.js
|---App.css
|---AttendanceTracker.jsx
|---AttendanceTracker.css
|---Index.js
```