



Experiment 1

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Subject Name: Full Stack

Subject Code: 23CSH-309

1. Aim: To design and implement the foundational frontend architecture of the EcoTrack application using modern React practices, vite tooling and ES6+ JS features.

2. Objective:

- To set up a modern React project using Vite for efficient development
- To design a clean and scalable frontend architecture using React best practices
- To implement reusable and modular components for the EcoTrack application
- To apply ES6+ JavaScript features for efficient and maintainable code
- To establish a strong frontend foundation for future enhancements and integrations

3. Code:

- Logs.js

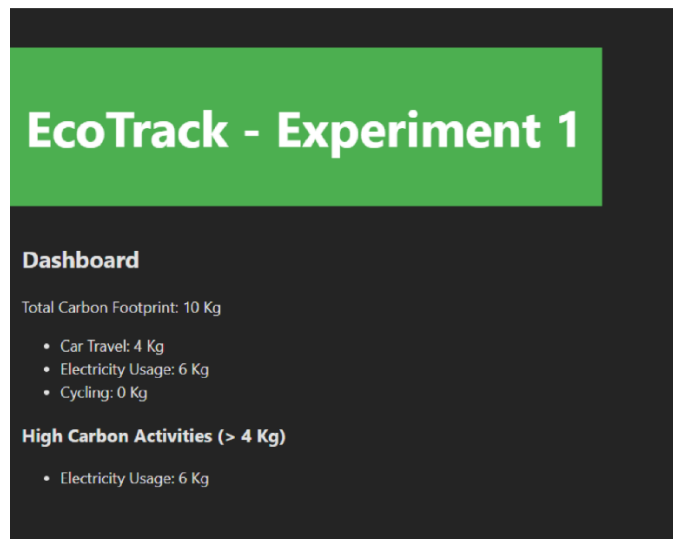
```
export const logs = [  
  { id: 1, activity: "Car Travel", carbon: 4 },  
  { id: 2, activity: "Electricity Usage", carbon: 6 },  
  { id: 3, activity: "Cycling", carbon: 0 },  
];
```

- dashboard.jsx

```
import { logs } from "../data/logs";
```

```
const Dashboard = () => {  
  const totalCarbon = logs.reduce((sum, log) => sum + log.carbon, 0);  
  
  return (  
    <div>  
      <h2>Dashboard</h2>  
      <p>Total Carbon Footprint: {totalCarbon} Kg</p>  
  
      <ul>  
        {logs.map((log) => (  
          <li key={log.id}>  
            {log.activity} = {log.carbon} kg  
          </li>  
        ))}  
      </ul>  
    </div>  
  );  
};  
  
export default Dashboard;
```

4) Output:



5) Learning Outcomes:

- Understand how to create and configure a React application using Vite tooling
- Gain proficiency in applying modern React concepts and best practices
- Develop the ability to build reusable and modular frontend components
- Learn to use ES6+ JavaScript features effectively in real-world applications
- Acquire skills to design a scalable and maintainable frontend architecture