React JS code

```
import React, { useState, useEffect } from 'react';
import { BrowserRouter as Router, Switch, Route, Link } from 'react-router-dom';
function CarSharingPlatform() {
 const [cars, setCars] = useState([]);
 const [bookings, setBookings] = useState([]);
 const [currentUser, setCurrentUser] = useState(null);
 useEffect(() => {
  // Fetch cars and bookings data from server
  fetch('/api/cars')
   .then(response => response.json())
   .then(data => setCars(data))
   .catch(error => console.log(error));
  fetch('/api/bookings')
   .then(response => response.json())
   .then(data => setBookings(data))
   .catch(error => console.log(error));
  // Set the current user from local storage
  const storedUser = localStorage.getItem('currentUser');
  if (storedUser) {
   setCurrentUser(JSON.parse(storedUser));
  }
}, []);
 function handleLogin(user) {
  setCurrentUser(user);
```

```
localStorage.setItem('currentUser', JSON.stringify(user));
}
function handleLogout() {
 setCurrentUser(null);
 localStorage.removeItem('currentUser');
}
function handleCreateBooking(carld, bookingDate) {
 const booking = {
  carld,
  bookingDate,
  userId: currentUser.id
 };
 fetch('/api/bookings', {
  method: 'POST',
  headers: { 'Content-Type': 'application/json' },
  body: JSON.stringify(booking)
 })
  .then(response => response.json())
  .then(data => {
   setBookings([...bookings, data]);
  })
  .catch(error => console.log(error));
}
return (
 <Router>
  <div>
   <nav>
```

```
<Link to="/">Home</Link>
 <Link to="/cars">Cars</Link>
 {currentUser?(
  <>
   <Link to="/bookings">Bookings</Link>
   <button onClick={handleLogout}>Logout</button>
   </>
 ):(
  <Link to="/login">Login</Link>
  )}
</nav>
<Switch>
<Route exact path="/">
 <HomePage />
 </Route>
<Route path="/cars">
 <CarListPage cars={cars} onCreateBooking={handleCreateBooking} />
 </Route>
```

```
<Route path="/bookings">
      <BookingListPage bookings={bookings} />
     </Route>
     <Route path="/login">
      <LoginPage onLogin={handleLogin} />
     </Route>
    </Switch>
   </div>
  </Router>
);
}
function HomePage() {
 return (
  <div>
   <h1>Welcome to Car Sharing Platform</h1>
   Share your car with others and earn money!
  </div>
);
}
function CarListPage({ cars, onCreateBooking }) {
 return (
  <div>
   <h2>Cars</h2>
   {cars.map(car => (
     key={car.id}>
      <h3>{car.make} {car.model}</h3>
      {car.description}
      Price per day: ${car.pricePerDay}
```