APPLICATION DE LOCATION DE VOITURES AVEC PWA

ARCHITECTURE :

```
∨ car-app
    ∨ images
        🖼 icon-192x192.png
    JS app.js
    <> index.html
    {} manifest.json
    JS service-worker.js
    # style.css
```

PAGE HTML :

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Car PWA</title>
    <link rel="stylesheet" href="style.css">
    <link rel="manifest" href="manifest.json">
</head>
<body>
    <h1>Car Rental Service</h1>
    <form id="rental-form">
        <label for="car">Select Car:</label>
        <select id="car">
            <option value="sedan">Sedan</option>
            <option value="suv">SUV</option>
            <option value="hatchback">Hatchback</option>
        </select>
        <label for="duration">Rental Duration (days):</label>
        <input type="number" id="duration" min="1" max="30" required>
        <button type="submit">Rent Now</button>
    </form>
    <div id="confirmation"></div>
    <script src="app.js"></script>
</body>
</html>
```
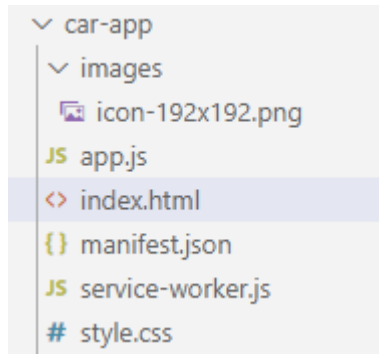
MANIFESTE

```
car-app > {} manifest.json > ...
 1  {
 2      "name": "Car Service",
 3      "short_name": "CarService",
 4      "start_url": "index.html",
 5      "display": "standalone",
 6      "background_color": "#ffffff",
 7      "theme_color": "#000000",
 8      "icons": [
 9          {
10              "src": "images/icon-192x192.png",
11              "sizes": "192x192",
12              "type": "image/png"
13          }
14      ]
15  }
```

STYLE :

```css
body {
    font-family: Arial, sans-serif;
    background-color: #f0f0f0;
    color: #333;
    margin: 0;
    padding: 20px;
    text-align: center;
}

form {
    margin: 20px 0;
}

label {
    display: block;
    margin: 10px 0 5px;
}

input, select, button {
    padding: 10px;
    margin: 5px 0;
    width: 100%;
    max-width: 300px;
}

#confirmation {
    margin-top: 20px;
    padding: 10px;
    background-color: #e0ffe0;
    border: 1px solid #a0d0a0;
    display: none;
}
```

JAVASCRIPT : App.js

```javascript
document.addEventListener('DOMContentLoaded', () => {
    if ('serviceWorker' in navigator) {
        navigator.serviceWorker.register('/service-worker.js')
            .then(registration => {
                console.log('Service Worker registered with scope:', registration.scope);
            })
            .catch(error => {
                console.log('Service Worker registration failed:', error);
            });
    }
    const form = document.getElementById('rental-form');
    const confirmation = document.getElementById('confirmation');
    form.addEventListener('submit', event => {
        event.preventDefault();
        const car = document.getElementById('car').value;
        const duration = document.getElementById('duration').value;
        confirmation.textContent = `You have rented a ${car} for ${duration} days.`;
        confirmation.style.display = 'block';
    });
});
```

CODE DU SERVICE WORKER

car-app > JS service-worker.js > ...

```javascript
1    const CACHE_NAME = 'car-cache-v1';
2    const urlsToCache = [
3        '/',
4        '/index.html',
5        '/style.css',
6        '/app.js',
7        '/manifest.json',
8        '/images/icon-192x192.png'
9    ];
10   self.addEventListener('install', event => {
11       event.waitUntil(
12           caches.open(CACHE_NAME)
13               .then(cache => {
14                   return cache.addAll(urlsToCache);
15               })
16       );
17   });
18   self.addEventListener('fetch', event => {
19       event.respondWith(
20           caches.match(event.request)
21               .then(response => {
22                   return response || fetch(event.request);
23               })
24       );
25   });
```