

Beginner's Guide to JavaScript Mini Projects with Local Storage

Subtitle: Build interactive web apps that save user data in the browser using Local Storage.

Website Name: haas.dev

Website Link: <https://dev-roast-app.vercel.app>

Introduction

Local Storage allows web apps to **persist data in the browser** without a backend. This guide helps beginners build practical projects to save user data, preferences, and progress, improving UX and project functionality.

Step 1: Local Storage Basics

- **Set Data:** `localStorage.setItem('key', 'value');`
 - **Get Data:** `const value = localStorage.getItem('key');`
 - **Remove Data:** `localStorage.removeItem('key');`
 - **Clear All:** `localStorage.clear();`
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Step 2: Storing Objects/Arrays

- Convert data to JSON before storing:

```
const tasks = [{ task: 'Learn JS', done: false }];
localStorage.setItem('tasks', JSON.stringify(tasks));
const storedTasks = JSON.parse(localStorage.getItem('tasks'));
console.log(storedTasks[0].task); // "Learn JS"
```

Step 3: Project 1 – To-Do List App

- Features: Add, delete, mark tasks complete
 - Persist tasks in Local Storage
 - Update DOM dynamically based on stored data
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Step 4: Project 2 – Notes App

- Save notes in Local Storage
 - Load saved notes on page refresh
 - Optional: Edit and delete notes
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Step 5: Project 3 – Theme Toggle

- Toggle between light and dark themes
- Save user preference in Local Storage
- Apply saved theme on page load

```
const toggle = document.getElementById('themeToggle');
toggle.addEventListener('click', () => {
  document.body.classList.toggle('dark');
  localStorage.setItem('theme', document.body.classList.contains('dark') ? 'dark' : 'light');
});

// Apply saved theme
if(localStorage.getItem('theme') === 'dark') document.body.classList.add('dark');
```

Step 6: Project 4 – Quiz App Progress Saver

- Save current question index in Local Storage
 - Allow users to continue quiz after page refresh
 - Store answers locally for review
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Step 7: Best Practices

- Avoid storing sensitive information (passwords, tokens)
 - Keep data small (<5MB)
 - Parse JSON safely before using
 - Use modular functions for storing and retrieving data
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Step 8: Key Takeaways

- Local Storage persists data in the browser without a backend
 - Ideal for tasks, notes, theme preferences, and quiz progress
 - Combine with DOM manipulation and events for interactive apps
 - Small projects reinforce real-world usage of Local Storage
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Visit **haas.dev** for step-by-step Local Storage projects, beginner-friendly tutorials, and practical JavaScript guides.

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