# Lab: Exploring Local Storage

#### Estimated time needed: 15 minutes

Welcome to this lab, where you will learn how to access and manipulate local storage in web browsers, with a focus on Google Chrome. Local storage is a handy feature for saving key-value pairs without expiring with the session, making it useful for preserving user preferences, settings, and other data across sessions.

### **Objectives**

After completing this lab, you will be able to:

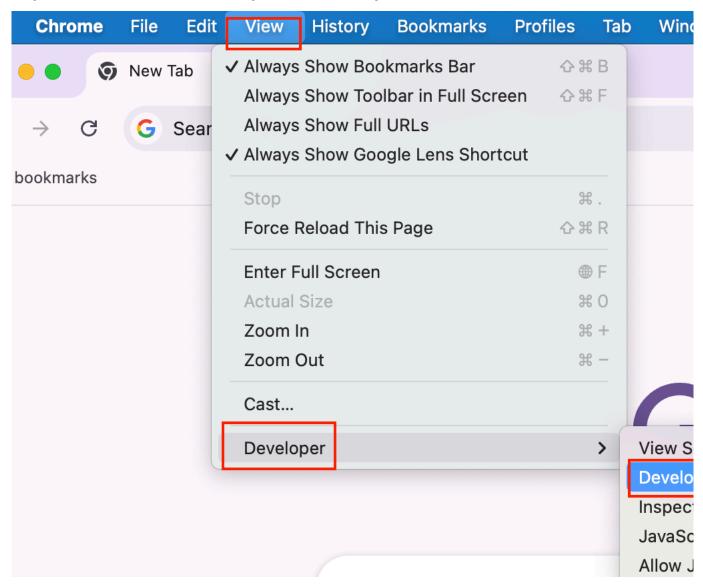
- Access local storage in different web browsers, focusing primarily on Google Chrome
- Inspect and understand the features available in local storage using developer tools
- · Add, modify, and delete data in local storage
- Interact with local storage using the JavaScript console

### **Exercise 1: Accessing local storage**

This exercise will teach you how to access local storage in Google Chrome and other popular web browsers.

### 1. Open Developer Tools in Chrome

- Right-click anywhere on a web page, select Inspect, or use the shortcut Ctrl+Shift+I (Windows/Linux) or Cmd+Option+I (Mac)
- Navigate to the Application tab to access the local storage section under the Storage panel on the left sidebar



### 2. Access local storage in other browsers

- Firefox: Open Menu > Web Developer > Storage Inspector or use the shortcut Ctrl+Shift+I and select the Storage tab.
- o Safari: Enable the Develop menu via Safari's Preferences, then select Develop > Show Web Inspector and go to the Storage tab.

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### **Exercise 2: Exploring local storage**

In this exercise, you will explore local storage by inspecting Wikipedia's homepage.

### 1. Visit Wikipedia

- Go to <a href="https://www.wikipedia.org/">https://www.wikipedia.org/</a> and open Developer Tools
   Navigate to the Application tab and select Local Storage on the left-hand menu. You should see a list of key-value pairs currently stored by the browser for Wikipedia.

### $2. \ \textbf{Inspect local storage values}$

• Observe the entries in local storage. You might see keys like portal\_session\_id and translationHash, among others.

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# WikipediA

The Free Encyclopedia

# **English**

6,873,000+ articles

## 日本語

1,427,000+ 記事

# Русский

1 996 000+ статей

### **Deutsch**

2.937.000+ Artikel

### Italiano

1.879.000+ voci



# **Español**

1.974.000+ artículos

# **Français**

2631000+ article

# 中文

1,438,000+ 条目 / 條[

# **Português**

1.132.000+ artigos



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### **Exercise 3: Manipulating local storage**

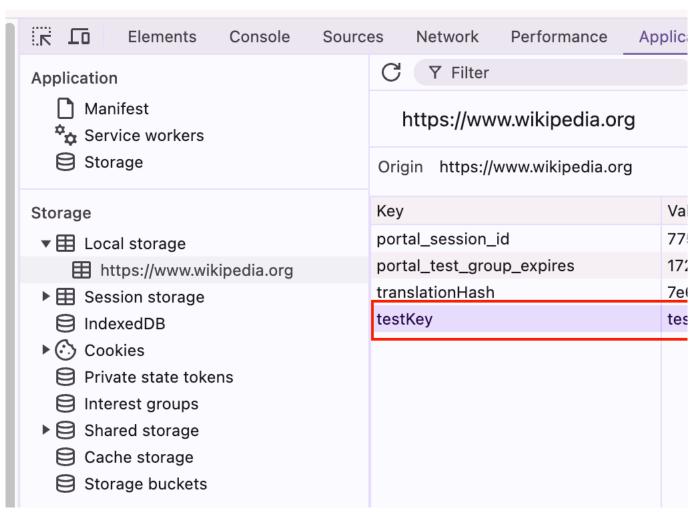
In this exercise, you will learn how to add, modify, and delete data in local storage using Developer Tools.

1. Add new key-value pairs

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o In the Local Storage section of the Application tab, double-click an empty row in the table to add a new key-value pair.

- Enter a key name, for example, testKey and a value testValue.
- o Press Enter to save the new key-value pair.



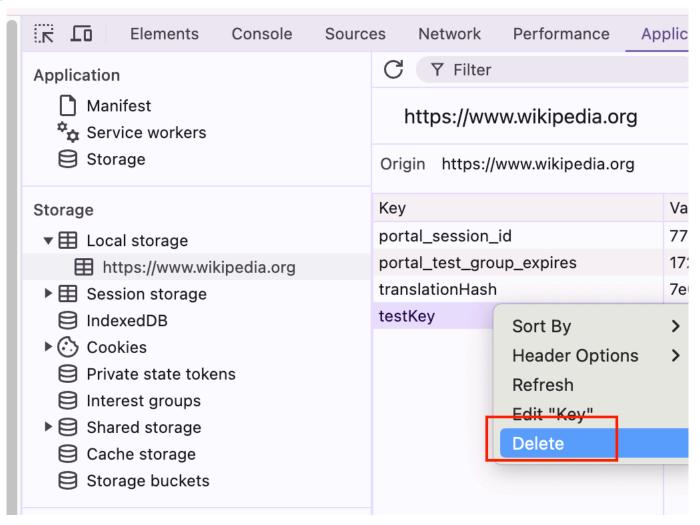
### 2. Modify existing key-value pairs

 $\circ~$  Double-click the value of an existing entry. Change the value and press  ${\tt Enter}$  to update.

#### 3. Delete key-value pairs

• To delete an entry, right-click a key and select Delete.

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### **Exercise 4: Using the Console to interact with local storage**

This exercise demonstrates how to use the JavaScript Console to interact with local storage programmatically.

#### 1. Open the Console tab:

• Switch to the Console tab in Developer Tools.

### 2. Add a value:

 $\circ~\mbox{Type}$  localStorage.setItem('newKey', 'newValue'); and press Enter.

### 3. Retrieve a value:

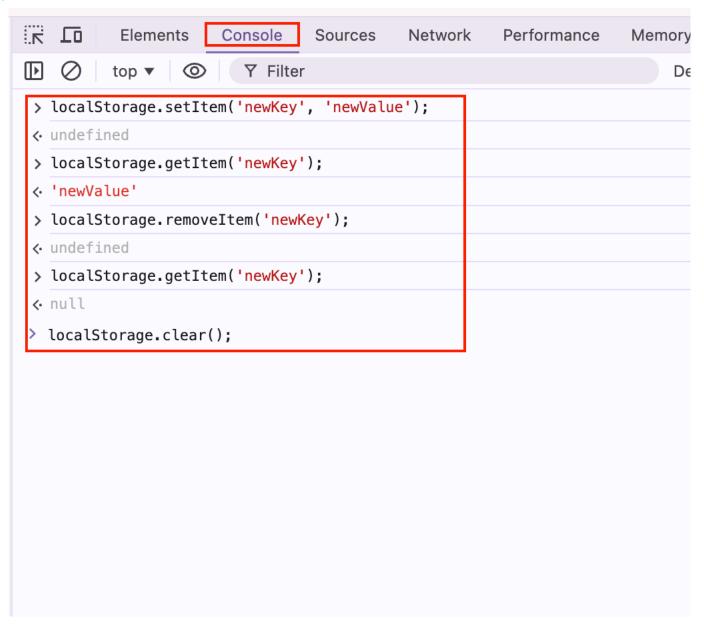
• To retrieve the value you just set, type localStorage.getItem('newKey'); and press Enter.

### 4. Remove a value:

• To remove the key you added, type localStorage.removeItem('newKey'); and press Enter.

### 5. Clear all local storage:

 $\circ \ \ \text{If you want to clear all local storage entries for the site, type {\tt localStorage.clear();} \ and \ press {\tt Enter.} \\$ 



### Conclusion

In this lab, you have learned how to access and manipulate local storage in various web browsers, focusing on Google Chrome. You've explored how to manually add, retrieve, modify, and delete local storage data through the Developer Tools and programmatically using the Console.

By understanding local storage, you can enhance the user experience on your websites by persistently storing user preferences and other data across browser sessions.

### Author(s)

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