Caching JavaScript REST API Data with Local Storage

INTRODUCING LOCAL STORAGE



James Millar FREELANCE SOFTWARE DEVELOPER

@jamesmillar www.james-millar.co.uk

Overview



Local storage options

- Cookies
- Session storage
- Local storage

How local storage works

Common use cases

Course scenario

Local storage in action

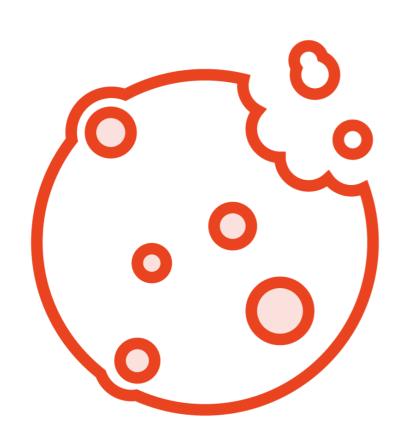


Why Store Data on the Client?



Connections to the server are stateless
Remember data between requests
Improve user experience

Cookies



Text file stored on device

4kb file size limit

Sent with the web request

Key-value pair storage

Not secure



HTML 5 Storage API



Session Storage



Local Storage



Session Storage



Data tied to domain origin and instance

Data lasts for the lifetime of the browser

More secure than cookies

5-10MB storage limit

Local Storage



Data stored per origin domain

Available across all browser instances

Data persists until deleted

Cookie

- 4KB storage limit
- Server and client-side reading
- Expiry time depends on settings
- Supported by older browsers

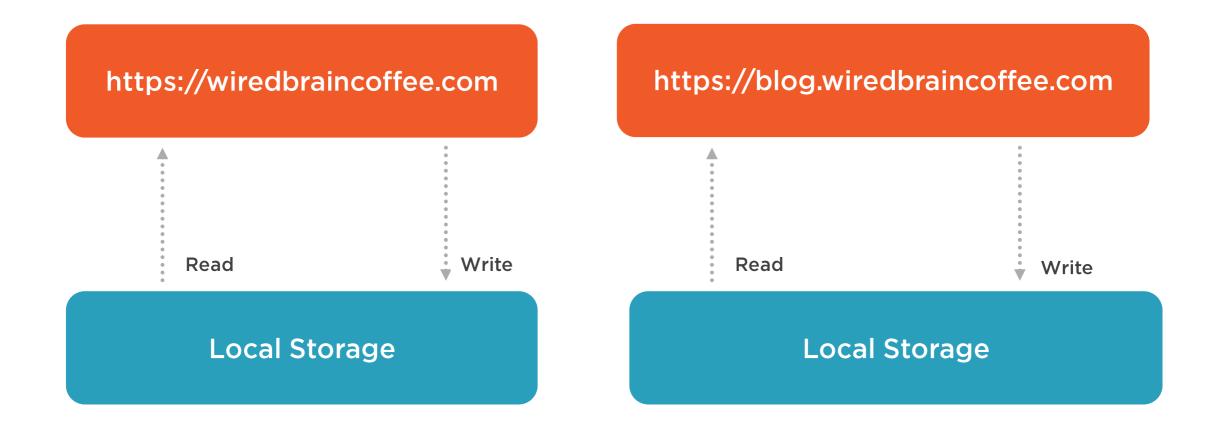
Session Storage

- 5MB storage limit
- Isolated per instance or tab
- Client side reading only
- Needs a modern browser

Local Storage

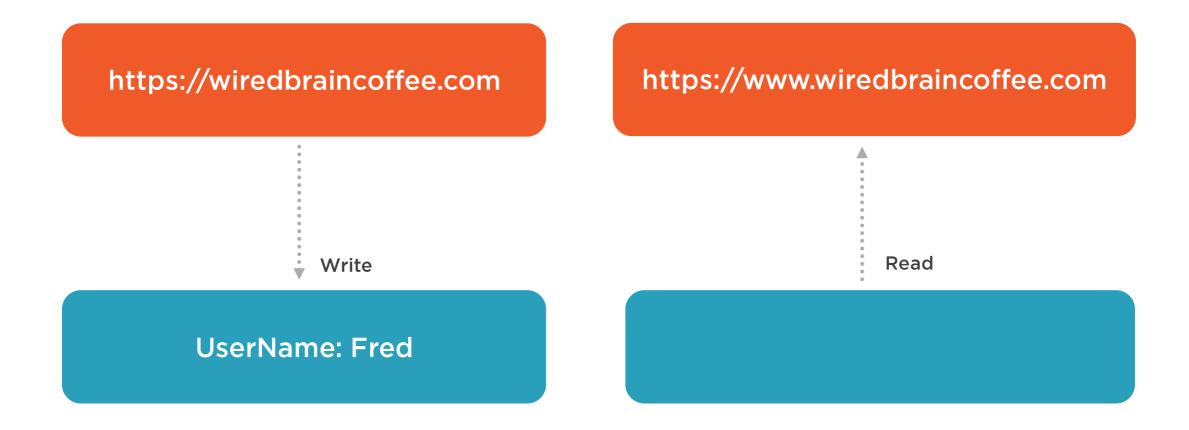
- 5MB storage limit
- Long persistence
- Data must be deleted manually or in code
- Client side reading only
- Needs a modern browser

Domain Segregation





Domain Segregation

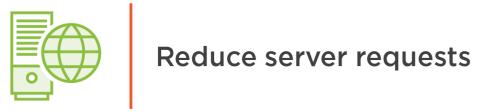




Storage Use Cases



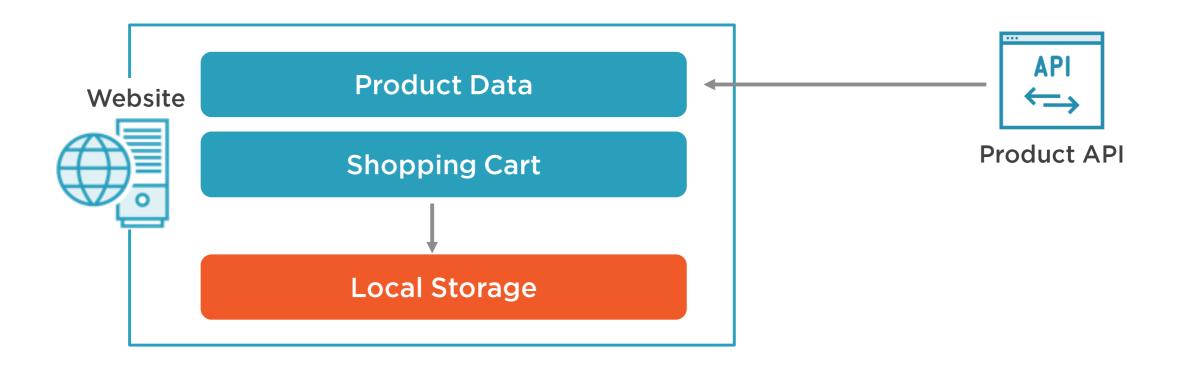
Maintain application state







Wired Brain Coffee Website



Demo



Introduce the storage API

- Session storage
- Local storage



Summary



Storage options

Web storage API

Domain segregation

Explored our application

Explored storage using developer tools

