Local Storage

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Persistence

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State in React and JavaScript is ***transient***, meaning we lose it after a page refresh

Sometimes we want data to be ***persistent*** between sessions

This can be done using a ***database***, or stored client-side via ***localstorage***

What is Local Storage?

- **window.localStorage** is an API that allows you to read and write to a storage object in the document
- The stored data in this storage object is **persisted between sessions**
- This means we can save and retrieve data when a user closes their tab or browser

Pros and Cons

When should I not use Local Storage?

1. When security of data is important
2. For large amounts of data
   (localstorage has limited storage)
3. For complex data (only stores strings)
4. Data needed on multiple devices

When should I use Local Storage?

1. When there is no server
2. For data which is not crucial if it is lost
   (e.g. or remembering view options or
   user settings)

Localstorage API

```
// Add a data item given the key and value
localStorage.setItem(key, value);

// Retrieves an item from localstorage given a key
const value = localStorage.getItem(key);

// Remove an item with a given key from localstorage
localStorage.removeItem(key);

// Remove all items from localstorage
localStorage.clear();
```

Local storage example