

Database in JavaScript (Local Storage)



Before We Start

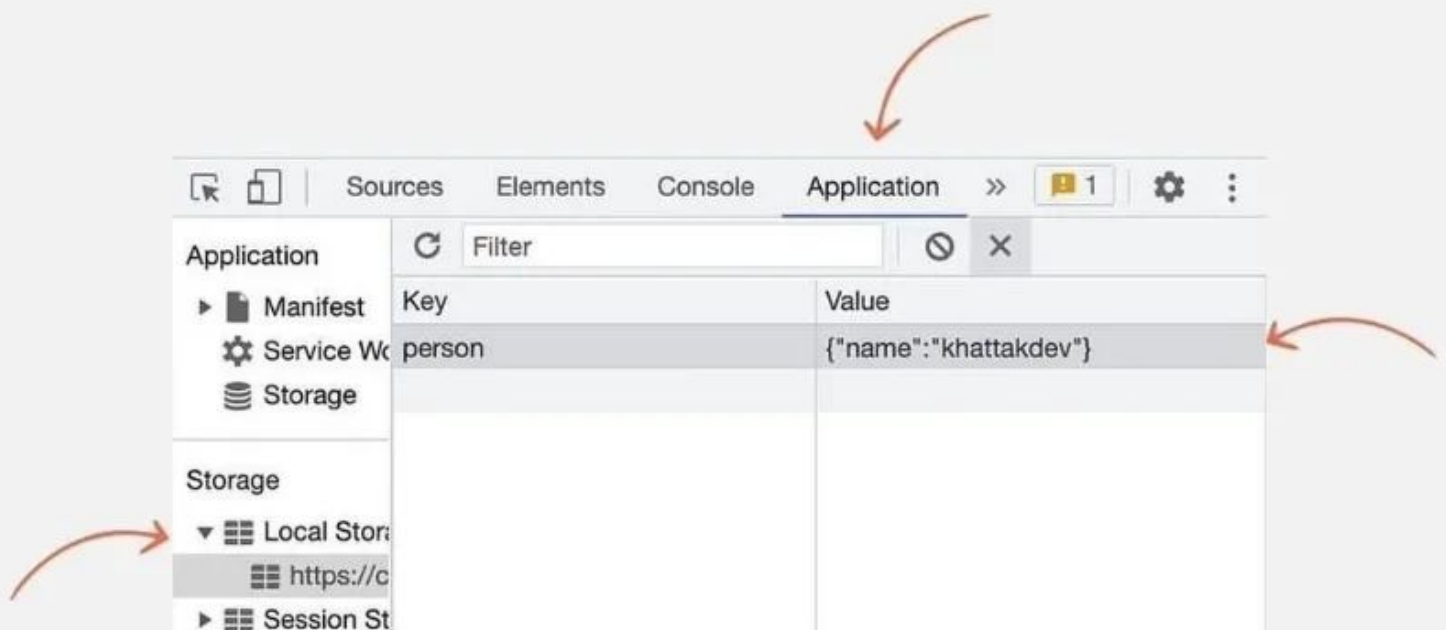
The local storage data is in **JSON format**, which means when storing the data, we need to convert the JavaScript Object to a JSON format and vice versa.

```
1 const person = {  
2   name: "khattakdev"  
3 }  
4  
5 const personToJSON = JSON.stringify(person);
```

Visual View

To view the local storage, follow the following steps:

- 👉 Open Developer Tools
- 👉 Go to Applications Tab
- 👉 Select Local Storage



Local Storage

Local Storage is an API provided by browsers that allows you to **create**, **read**, **update** and **delete** records in the browser.

These records are limited to the browser only, meaning data stored in chrome is not available on firefox and vice versa.



Create New Record

Here's how to create a new record in the local storage.



```
1 const person = {  
2   name: "khattakdev"  
3 }  
4  
5 const personToJSON = JSON.stringify(person);  
6  
7 localStorage.setItem("person", personToJSON)
```

Convert to JSON
first

The key of the record

The value of the record (JSON)

The diagram shows a code editor window with three colored window control buttons (red, yellow, green) in the top-left corner. The code is written in a light blue font on a dark background. An orange arrow points from the text 'Convert to JSON first' to the `JSON.stringify(person)` expression in line 5. Two orange arrows point from the text 'The key of the record' and 'The value of the record (JSON)' to the `"person"` and `personToJSON` arguments in line 7, respectively.

Read a Record

Here's how to read record in the local storage.

```
1 const personJSON =  
  localStorage.getItem("person");  
2  
3 const JSONToPerson = JSON.parse(personJSON);  
4  
5 console.log(JSONToPerson);
```


Convert JSON to
JS Object

Update a Record

Here's how to update an existing record in the local storage.



```
1 const person = {  
2   name: "khattakdev",  
3   age: 22  
4 }  
5  
6 const personToJSON = JSON.stringify(person);  
7  
8 localStorage.setItem("person", personToJSON);
```



Update is basically
overwriting

Delete a Record

Here's how to delete an existing record in the local storage.



```
1 localStorage.removeItem("person");
```