TP-03

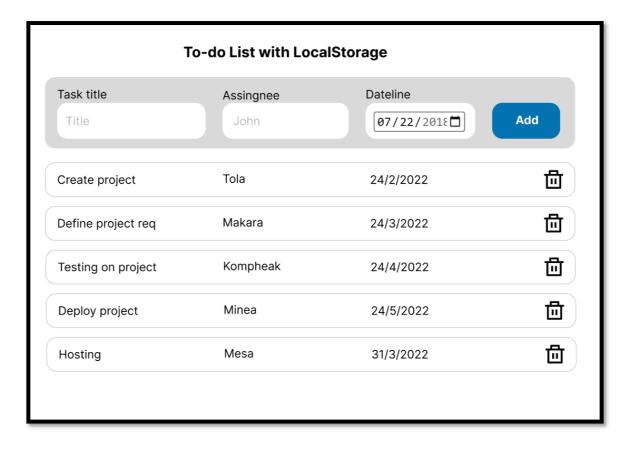
JavaScript

(Local storage, Cookie, and session)

https://javascript.info/

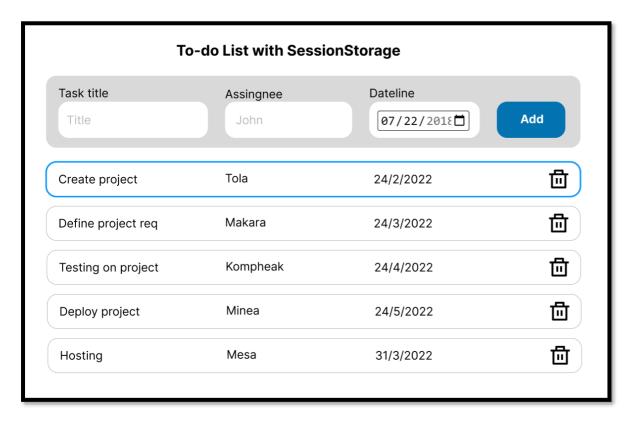
TP02.1: Todo list with LocalStorage

Build a web application allowing user to create do-to list based on following UI designs and functionalities. The data must be stored inside LocalStorage



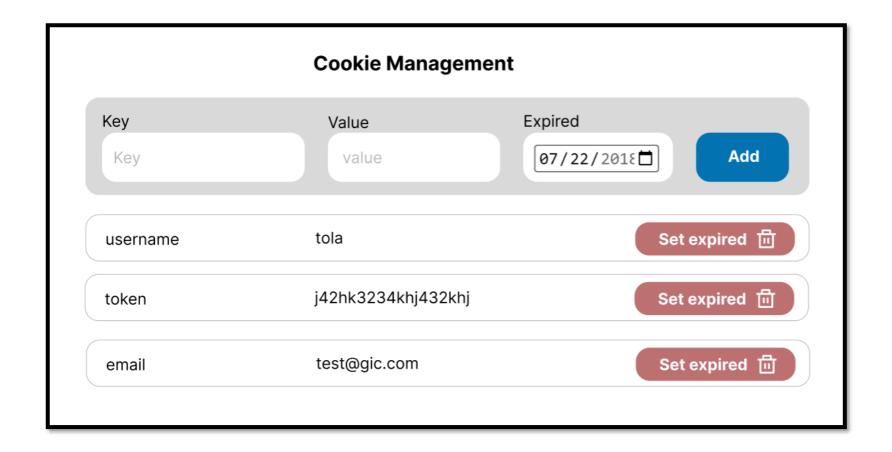
TP02.2: Todo list with SessionStorage

Build a web application allowing user to create do-to list based on following UI designs and functionalities. The data must be stored inside SessionStorage



TP02.3: Cookie

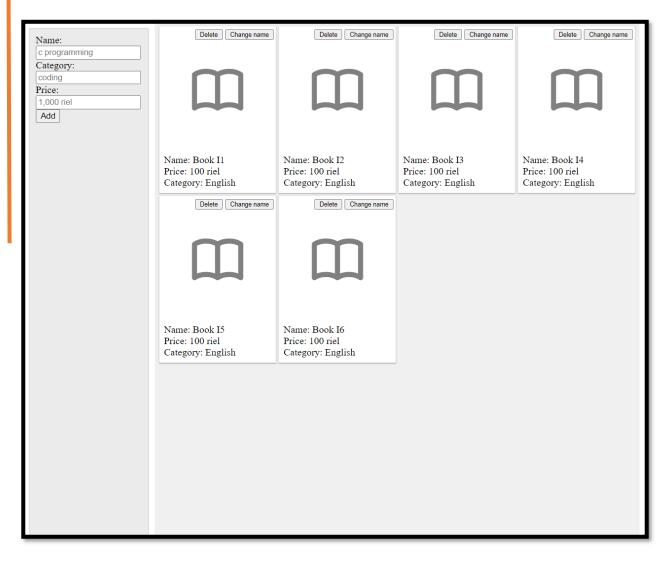
Build a web application allowing user to create cookie in a list based on following UI designs and functionalities. The data must be stored inside Cookie



3

TP03.4: Book shop CRUD with Local storage

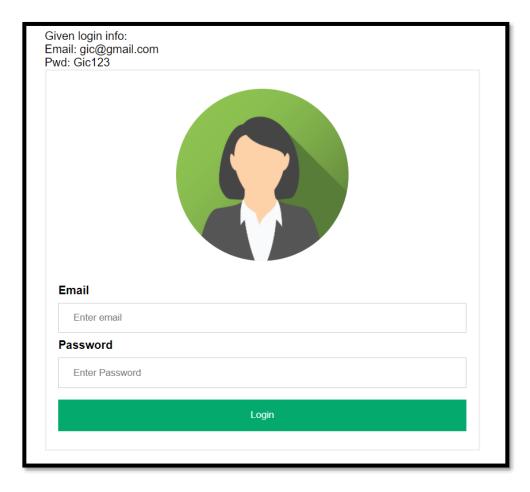
Build a web application allowing user to create/read/update/delete books. All data must be stored in Local Storage



- ✓ Grid view of book collection
- ✓ Add new book
- ✓ Delete book
- ✓ Update new name

TP03.5: Login Form with Cookie

Build a web application that always requires user authentication before getting to the home page.





Local storage, Cookie and Session storage

	Cookies	Local Storage	Session Storage
Capacity	4kb	10mb	5mb
Browsers	HTML4 / HTML 5	HTML 5	HTML 5
Accessible from	Any window	Any window	Same tab
Expires	Manually set	Never	On tab close
Storage Location	Browser and server	Browser only	Browser only
Sent with requests	Yes	No	No

Local storage & Session storage

LocalStorage

```
localStorage.setItem('test', 1);
alert( localStorage.getItem('test') ); // 1
```

Object-like access

```
// set key
localStorage.test = 2;

// get key
alert( localStorage.test ); // 2

// remove key
delete localStorage.test;
```

Strings only

```
localStorage.user = {name: "John"};
alert(localStorage.user); // [object Object]
```

```
localStorage.user = JSON.stringify({name: "John"});

// sometime later
let user = JSON.parse( localStorage.user );
alert( user.name ); // John
```

Session Storage

```
sessionStorage.setItem('test', 1);
alert( sessionStorage.getItem('test') ); // after refresh: 1
```

Cookie

Reading from document.cookie

```
alert( document.cookie ); // cookie1=value1; cookie2=value2;...
```

Writing to document.cookie

```
document.cookie = "user=John"; // update only cookie named 'user'
alert(document.cookie); // show all cookies
```

```
// special characters (spaces), need encoding
let name = "my name";
let value = "John Smith"

// encodes the cookie as my%20name=John%20Smith
document.cookie = encodeURIComponent(name) + '=' + encodeURIComponent(value);
alert(document.cookie); // ...; my%20name=John%20Smith
```

Cookie options: path=/; domain=site.com; expires; secure; samesite

```
document.cookie = "user=John; path=/; expires=Tue, 19 Jan 2038 03:14:07 GMT"
```

Bonus



https://d3js.org/

https://observablehq.com/@d3/gallery

https://www.d3indepth.com/

https://sbcode.net/threejs/introduction/

https://fhtr.org/BasicsOfThreeJS/#27

https://threejs.org/



Good luck