# **TP-03**

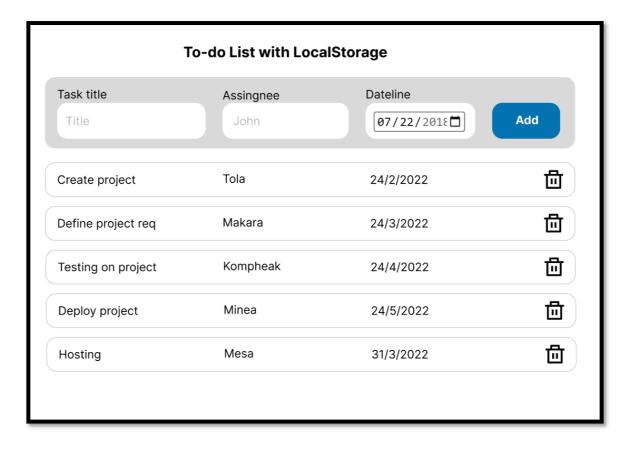
# **JavaScript**

(Local storage, Cookie, and session)

https://javascript.info/

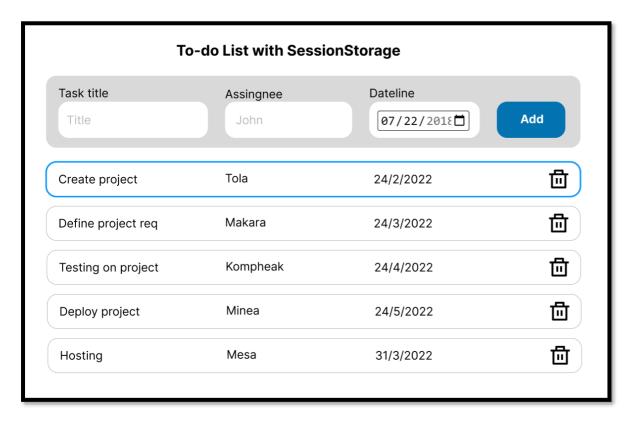
### TP02.1: Todo list with LocalStorage

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



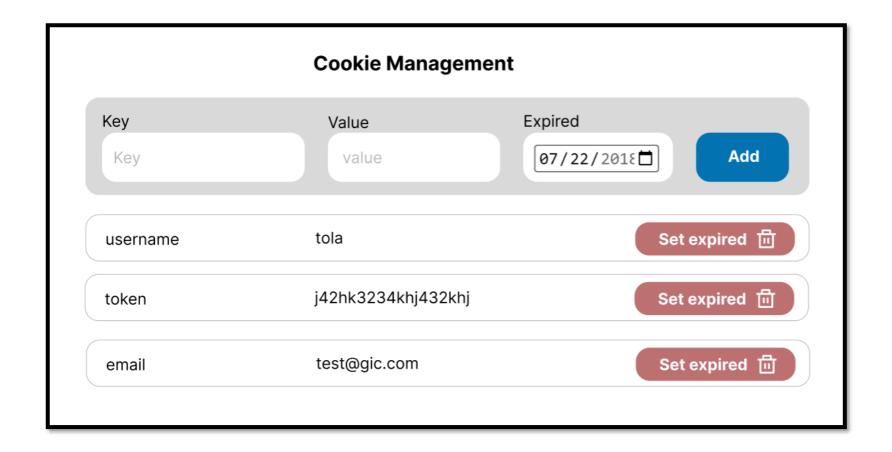
### TP02.2: Todo list with SessionStorage

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

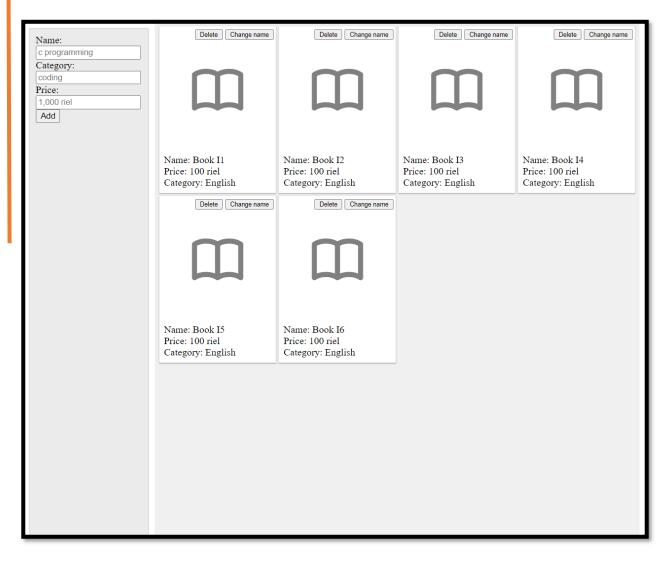
Build a web application allowing user to create cookie in a list based on following UI designs and functionalities. The data must be stored inside Cookie



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### TP03.4: Book shop CRUD with Local storage

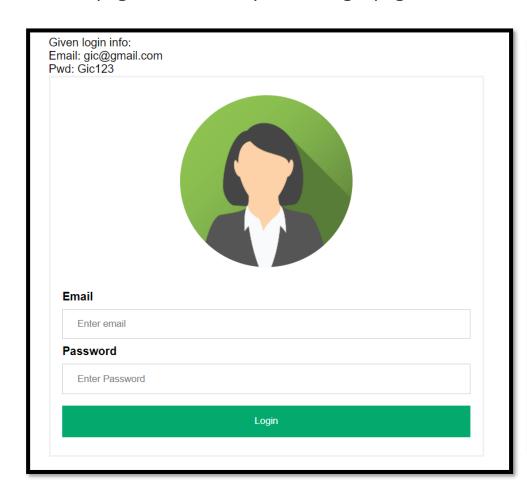
Build a web application allowing user to create/read/update/delete books. All data must be stored in Local Storage

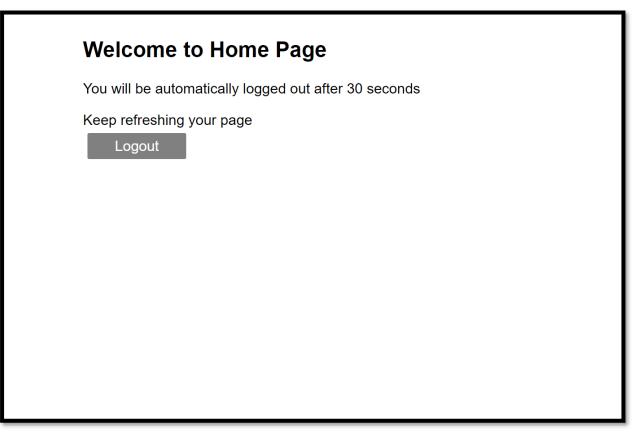


- ✓ Grid view of book collection
- ✓ Add new book
- ✓ Delete book
- ✓ Update new name

### TP03.5: Login Form with Cookie

Build a web application that always requires user authentication before getting to the home page. In 30 seconds, If you reload home page, it will route you to a login page instead.





# 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