

Storage Format

key (String)

111

Value (String)

```
{'req1': '{\''
```

"req2": {"area1": "{}"}'

"req_3": {"areaA": [{"x":

"areaB": "{} {}"

"req_4": {"area_1":

```
"{"course_1": "not satisfied"}"
```

"req5": {"area_1": {"cause_1":

"Satisfied", "course B": "not satisfied,"

"course_C": "in progress" } ,

"area-B": {"course-A": "in progress"},

"Course_B": "satisfied", "Course_C":
" "

"not satisfied" } "}"

2

Why Use map?

just [key, value],
myMap.keySet(),
or myMap.values()

- readable iteration (no `Object.keys` (localStorage...))
 - Can get size of data through
 - .size property if neededreturns $\{0, 1, 2, \dots\}$
 - readable setting key value pairs
 - (`myMap.set('key', 'value')` vs
(`myObj.key = 'value'`)

get Map Of WebData()

```
{"req_1": "{}",
 "req_2": {"area_1": "{}"},
 "req_3": {"area_A": "{}",
            "area_B": "{}"},
 "req_4": {"area_1": {
                "course_1": "not satisfied"
            }},
 "req_5": {"area_A": {"course_A": "satisfied",
                     "course_B": "not satisfied",
                     "course_C": "in progress"},
            "area_B": {"course_A": "in progress",
                     "course_B": "satisfied",
                     "course_C": "not satisfied"}}
```

key: String [requirement]

value: String [requirement data]
- areas
- courses
- status

getMapOfRequirementData('req5')

{ "area_A" => { "course_A": "satisfied",
"course_B": "not satisfied",
"course_C": "in progress"
},

"area_B" => { "course_A": "in progress",
"course_B": "satisfied",
"course_C": "not satisfied"
}

}

Key: String [area]

Value: String [area data]

-Courses

-Status

getMapOfAreaData('req5', 'course_B')

{ "Course-A" => "in progress",
"Course-B" => "satisfied",
"Course-C" => "not satisfied"
}

Key : String [Course]
Value : String [Course data]
- status

Editing Elements

requirement
area
course

} . addEventListener(,)

'Click'

append edit box

1
Update

2
Delete

3
Close

replace
'update'
element
with
an
input
to
enter
an update

Delete
element
branch
from:
1) body
2) local storage

Requirement
— areas
— courses

remove
edit box

Update element:
1) text content / status
2) local storage

remove edit box

Deleting From local Storage

key (string)	value (String)
""	
	{ "req_1": {}, "req_2": { "area_A": {} }, "req_3": { "area_A": {}, "area_B": {} }, "req_4": { "area_1": { "course_1": "not satisfied" } }, "req_5": { "area_A": { "course_A": "satisfied", "course_B": "not satisfied", "course_C": "in progress" }, "area_B": { "course_A": "in progress", "course_B": "satisfied", "course_C": "not satisfied" } } }

Deleting From localStorage cont.

Deleting requirements:

- 1) json = getJSONofWebDataC() $\rightarrow \{ \dots \}$
- 2) delete json [deleted-requirement-string]

Deleting areas:

- 1) (see req)
- 2) delete json [requirement-string]
[deleted-area-string]

Deleting courses:

- 1) (See req)
- 2) delete json [requirement-string]
[area_string]
[deleted-course-string]

Updating local storage

Updating requirements:

- 1) json = getJSONOfWebParta() $\rightarrow \{ \dots \}$
- 2) updated_json = $\{ \}$
- 3) for C const [req-str, data] of Object.entries(json){
 if (req-str !== update-str) {
 updated_json[req-str] = data;
 }
 else if (req-str === update-str) {
 updated_json[update-str] = data;
 }
}
- 4) stringified_update_json
 = JSON.stringify(updated_json);
- 5) localStorage.setItem(''
 stringified_update_json);

Updating LocalStorage cont.

Updating Areas:

- 1) `web_json = getJSONofWebPart() → {}`
- 2) `requirement_json = web_json[requirement_str]`
- 3) `update_req_json = {}`
- 4) `for(const [area_str, data] of Object.entries(requirement_json)) {`
`if (area_str !== update_area_str) {`
`update_req_json[area_str] = data;`
`}`
`else if (area_str === update_area_str)`
`{`
`update_req_json[update_area_str]`
`= data;`
`}`
`}`
- 5) `web_json[requirement_str] = update_req_json;`
- 6) `Stringified_update_json`
`= JSON.stringify(web_json)`
- 7) `localStorage.setItem(''`
`Stringified_update_json);`

Updating localStorage cont.

Updating Courses:

- 1) web_json = getJSONOfWebData() $\rightarrow \{ \dots \}$
- 2) req_json = web_json[req_str];
- 3) area_json = req_json[area_str];
- 4) update_area_json = {};
- 5) for(const [course_str, data] of Object.entries(area_json)){
 if(course_str != update_course_str){
 update_area_json[course_str] = data;
 }
 else if(course_str == update_course_str){
 update_area_json[update_course_str] = data;
 }
}
- 6) req_json[area_str] = update_area_json;
- 7) web_json[req_str] = req_json;
- 8) stringified_update_json
 = JSON.stringify(web_json)
- 9) localStorage.setItem(''
 stringified_update_json);