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| To-do List Report |
| By Michael Raafat Mikhail & Amr Mohamed Nasr |

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**How the code is organized :**

In Folder ‘UsersDB’: contains the main css and html of the to-do list app and contains the link to the JavaScript file. A page is saved for each user.

Max.js: contains all the JavaScript and Jquery of the to do List.

SignIn.html: the html page of the log in forms. The main page.

Register.html: the html page of the registration page.

Dbl.html: a page to alert in case of conflict in database information and then redirects to another page.

Users.json: saves for each user his name, password, email and tasks list.

BackEnd.js: the NodeJS main code and file , responsible of the server scripts.

USED NODE MODULES:

1. Express : main framework of our server.
2. Express-session : to save persons sessions to keep track of whose logged in.
3. Body-parser : to get data from post requests.

**Main Functions :**

1. max.js :
2. a document ready function :

Reads the array saved in the JSON file , then gets the index of the current user by reading the id of an html object that saves his index in its id . From the array read and the index , we initialize the arrays of tasks to the ones saved in the json. Short story : loads the saved tasks.

1. upgradedatabase :

Uses ajax to send the latest arrays and a copy of the older arrays to the server for it to be processed and saved if it isn’t outdated arrays.

1. Post(path, parameters) :

Makes an imaginary form with method post and sends them in an form.

1. BackEnd.js :
2. app.post('/', function (req, res):

Addes a new user to the json array and saves it in the file. Writes a new html file for each user and then redirects at the login page.

1. app.post('/home', function (req, res):

responsible of logging in and updating data. If there isn’t a user logged in yet , it makes him logged in and redirects him to the to-do list page , otherwise if someone is logged in, it checks the array copies he sent if it matches the latest updated arrays. If it does , it then writes the new arrays in the json file , otherwise it sends back a flag that this data is outdated , making the outdated page referesh.

3-app.get('/logout', function (req, res):

Deletes the saved session information of the logged in user and redirects him.

4-app.get('\*',function(req, res) :

Responsible of handling any unknown gets.

C9 cloud page link : <https://web-dev-phase2-amr50.c9users.io/>