Task 5. Store notes in files [optional task]

In this task we will be using files to store and load nodes.

     1 hour

1) Add the variable to work with file system:

```
var fs = require('fs');
```

2) Implement storing notes in the file

```
app.post("/notes", function(req, res) {
var note = req.body;
var noteText = JSON.stringify(note)+"\n";
fs.appendFile("notes.json", noteText, function(err) {
        if (err) console.log("something is wrong");
        res.end();
});

});
```

It will append notes.json file on each request

3) Implement loading all notes from the file

```
app.get("/notes", function(req,res) {
fs.readFile("notes.json", function(err, result) {
        if (result) {
                result = ""+result; // convert Object to String
                //remove last \n in file
                result = result.substring(0, result.length - 1);
                result = "["+result+"]";
                result = result.split("\n").join(",");
                res.send(result);
        } else {
                res.end();
        }
});
});
```

1) Implement removing notes from the file
For this:

- introduce the counter and keep it in the session
- set id for each note and increment the counter when adding the note (see task 4)
- add app.delete("/notes") path
- load the list of all notes to the array
- find the note by its id and remove it from the list of the notes
- rewrite the file by using
  fs.writeFile(filename, data, callback)
- see additional documentation for fs.writeFile at
  https://nodejs.org/api/fs.html#fs_fs_writefile_filename_data_options_callback

2) Imlement support for multiple users
For this:
- introduce input field to enter the name of the user
- keep the user data is the file with the name of the user
- add Update button to load notes from the user's notes file