University of Ontario Institute of Technology

INFR 3120U

Assignment 2 Report

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Objective: This report explores the main features of our website coded for assignment2.

To run: We use NodeJS and MongoDB to support the back-end. To run MongoDB, locate the data/db file in the Database folder. Data/db is where we store our database of all the collections. For Mac user, there is a mongodb folder where exe files like mongod, mongo are located in mongodb/bin. For Windows user, MongoDB has to be installed first to run. To start the website server, run myNode.js in the main directory. Detailed executional command lines have been provided in a file called README.txt in the main directory.

Main features:

- First, libraries used are all that were taught in the lecture. (express, multer, fs, session, cookie, mongodb)
- We have a main myNode.js file that handles all the routing, starting the server, updating/retrieving data in MongoDB.
- The myNode.js file also implements authentication of user logging into admin page. However, signup page is not provided, and user's password has already been stored in the database.
- Admin username: julie; password: thorpe
- Every time user visits the admin page, he/she will be checked to see if he/she carries an assigned session id in cookies. If not, he/she will be directed to log in page.
- Admin pages html are **excluded** from express.static files such that these pages are not accessible via typing localhost:8080/(html) like the main user page could, for security purpose.
- Upon entering the admin page, cookies will start timing 30seconds. After every 30 seconds, any button user clicks on the admin page (eg buttons to other admin pages, submit/update buttons), he/she will be redirected back to the login page. 30 seconds were set for experimental purpose of session timeout function. It can be adjusted.
- On admin page, every link/button pressed will be processed by the myNode.js file to check the session id.
- On the user pages, all pages are using angular js controller to retrieve data. Hence, all pages are associated with a main angular js controller file, called appcontroller.js.
- This angular js controller file sends request (localhost:8080/data) to server who then make calls to MongoDB to retrieve data.
- Call of localhost:8080/update is made every time there is update on admin page.
- Database folder not only contains data/db, but also javascript files that are used to create DB and individual collections that were run when the database was first set up.
- Mongodb folder contains the bin folder that has mongodb executables to run the database (for mac user).