CS 6314.002 - Assignment 4

Due date: November 19, 2023 11:59PM.

You will use passport.js (local strategy) and implement session management for the purpose of this assignment. There is no restriction on CSS.

1. User login if user exists in mongodb.
    a. Authenticate username and password with the combination in db and allow login only upon successful match (example route: localhost:3000/login)
    b. Auto-logout after 10 seconds of inactivity or logout on clicking logout button (You can implement this on the client side/server side). example route: localhost:3000/logout .Require re-login(existing user)/registration(new user) after that.

2. User signup if user doesn't exist in mongodb(example route: localhost:3000/signup)
    a. Do not allow registration any time after the first creation – no duplicates in db.
    b. For the first time, perform form validation (pattern matching) on the following criteria before you create the user in mongodb (the user's password needs to be salted and hashed before storing it in db)
        i. Username: Alphabet only (spaces are allowed)
        ii. Email: Use regex and match the email format (ex: abc@xyz.hyu)
        iii. Phone: Numbers only
        iv. Address: No special characters (white spaces,commas,hyphen(-) are allowed)
3. The below requirements are implicit.
    a. Do not allow user to register if they are logged in.
    b. You cannot use logout route without logging in.
    c. Login page should depend on the entries in db but not require registration page as a previous page all the time (if you're reading data from user registration page into login page).

Resources:

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions

http://www.passportjs.org/

https://mherman.org/blog/user-authentication-with-passport-dot-js/

https://alto-palo.com/blogs/nodejs-authentication-with-passportjs-passport-local-mongoose/

https://developer.mozilla.org/en-US/docs/Web/API/setInterval

https://developer.mozilla.org/en-US/docs/Web/API/setTimeout

https://developer.mozilla.org/en-US/docs/Web/API/clearTimeout

Hands-on examples done in class.

Deliverables:

1. Zipped application folder (do not include *node_modules* folder)
2. Screenshots of different screens from your application.