

NS C2 ASSIGNMENT 1 *GROUP 40*

USER MANUAL

(Prerequisites: Nodejs installed. Can be installed from <https://nodejs.org/en/>)

First clone our repository by running this command in a terminal-

git clone https://github.com/tsukii21/lamport-otp.git

1. Starting the backend server

- a. Go to backend folder
- b. Open terminal and run ***npm install***
- c. After installation is complete run ***node index***
- d. This will start the server at localhost:5000

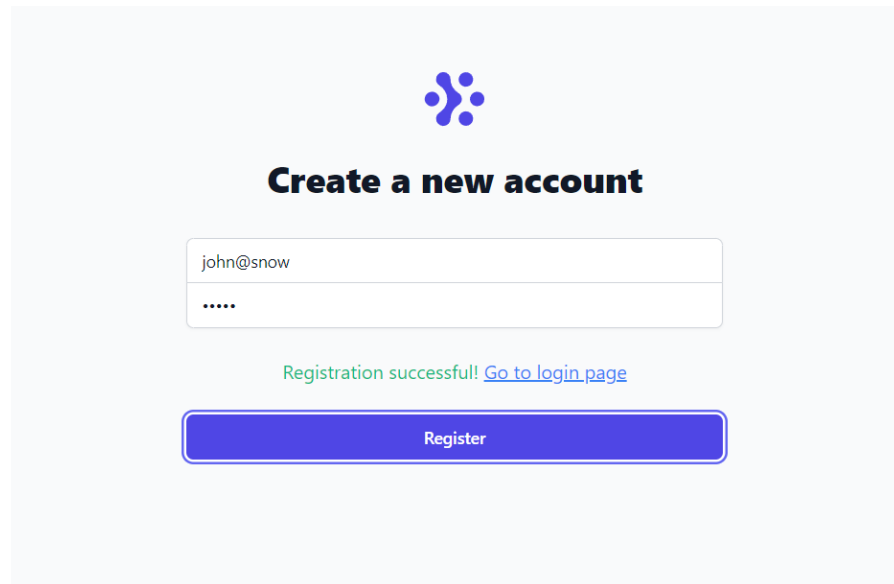
2. Starting the client server

- a. Go to frontend folder
- b. Open terminal and run ***npm install***
- c. After installation is complete run ***npm start***
- d. This will start the client server at localhost:3000 and a browser window with the login screen should automatically open.

3. Using the app

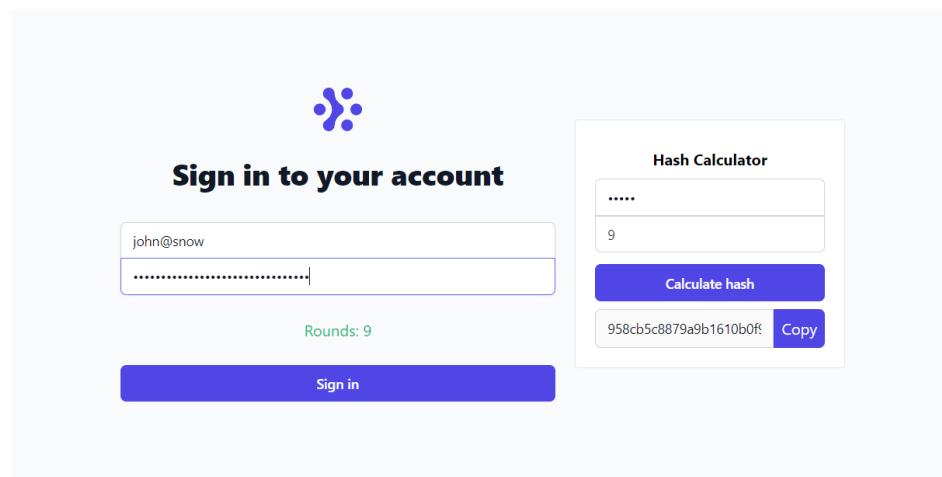
- a. First go to register page from navbar
- b. Enter your username and password and submit

- c. The app would say registration successful, Now go to login page



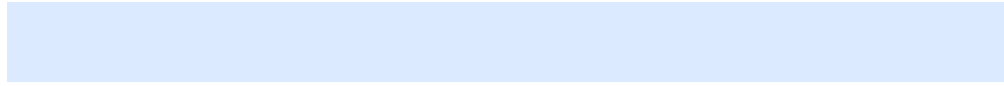
The screenshot shows a registration form titled "Create a new account" with a purple logo above it. The form contains two input fields: the first contains the email "john@snow" and the second contains masked characters ".....". Below the fields is a green message "Registration successful!" followed by a blue link "Go to login page". At the bottom is a large blue button labeled "Register".

- d. Enter your username and submit, backend will respond with a number.
- e. Now we have to hash our original password that number of times, this can be done conveniently using the hash calculator on the right
- f. Enter your password and number of rounds, submit, copy the result hash and paste it in the password field on the left



The screenshot shows a sign-in form titled "Sign in to your account" with a purple logo above it. The form has two input fields: the first contains the email "john@snow" and the second contains masked characters ".....". Below the fields is a green message "Rounds: 9" and a large blue button labeled "Sign in". To the right of the sign-in form is a "Hash Calculator" widget. It has two input fields: the first contains masked characters "....." and the second contains the number "9". Below these is a blue button labeled "Calculate hash". At the bottom of the widget, the hash "958cb5c8879a9b1610b0f" is displayed next to a blue "Copy" button.

g. Now submit your form, If correct password was used, you will be logged in



You are logged in!