



CSIT321 Final Year Project User Manual 21 May 2021

Project Group No: FYP-21-S1-02

Project Topic: Typing Habit Gesture Authentication System

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Introduction

Searching for a better way to protect your system without having to use 2-factor authentication or having other users to access with your passwords? Try using our Typing Habit Gesture Authentication System that provides you with another layer of security using your typing biometrics to recognize you.

Features

Sentence Generator

Generate a sentence for your input

Accuracy

How accurate our system is able to determine you against your typing biometrics

Words Per Minute (WPM)

Number of words you type per minute

Dwell Time

Time taken to press each key on the keyboard

Flight Time

Time taken from the down motion of one key to the other

System Requirements

Hardware

- 1. Any hardware that supports Windows Operating System
- 2. Any keyboard that does not have an issue with lag time between keyboard and computer system

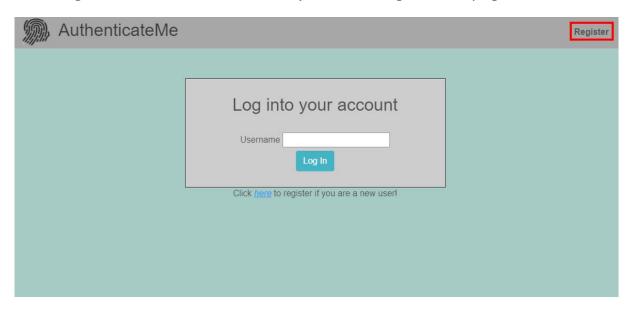
Software

1. Google Chrome browser

Register

You many skip 'Register' guide if you have an account and head to 'Login'. (Page 5)

Click on the 'Register' button which will lead you to the registration page.

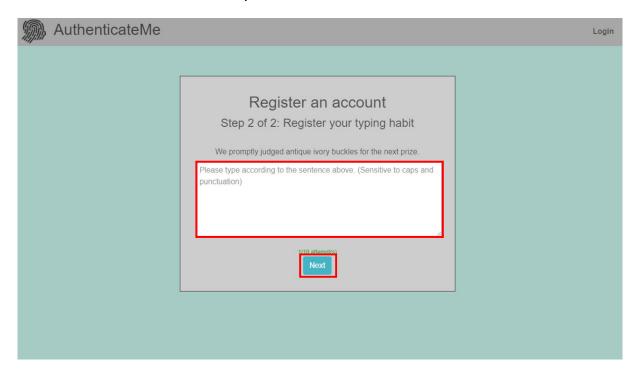


Next, key in your particulars and click 'Next'.

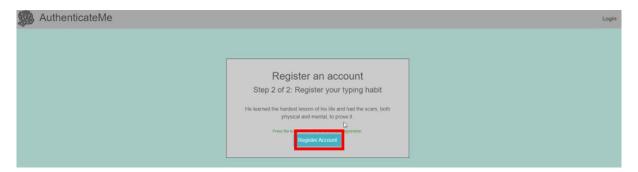


Once the system is able to verify your particulars, the system will require to register your typing biometrics. Key in the system generated sentence and click 'Next'. You will be required to repeat the process 10 times.

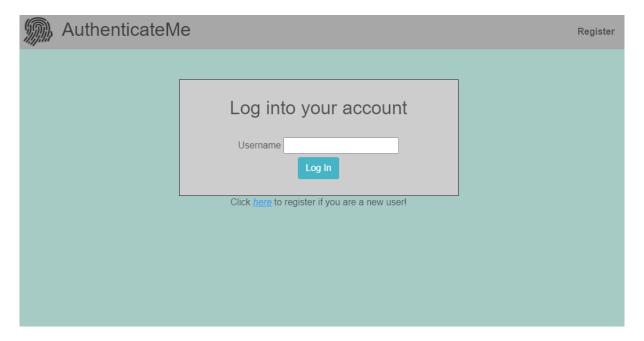
If you have made a mistake during your typing, you can use arrow keys or the mouse to navigate to the error and press the backspace button once for each character that you would like to remove. Do not hold the backspace button to remove 2 or more characters.



After 10 times, the system prompts you to click on the 'Register Account' button to complete your registration.



After the system is able to register you as our user, it will redirect you back to the Login page.

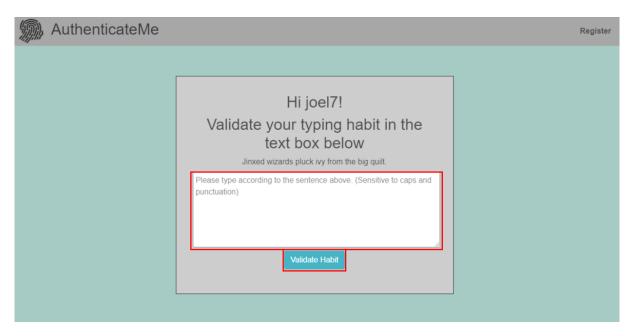


Login

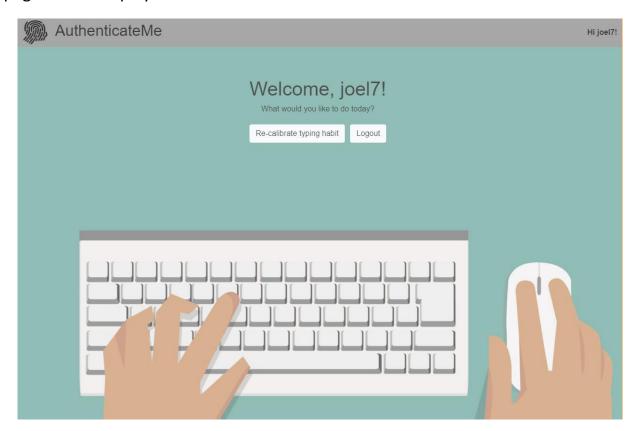
Once you have entered the URL, the Login page will be displayed. Enter your username, and click 'Login'



Next, typing the system generated sentence in the while box, and click 'Validate Habit'.

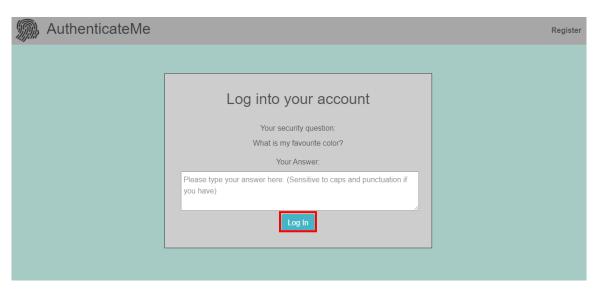


Once our system has confirmed, you will be allowed to access into the system and user homepage will be displayed.

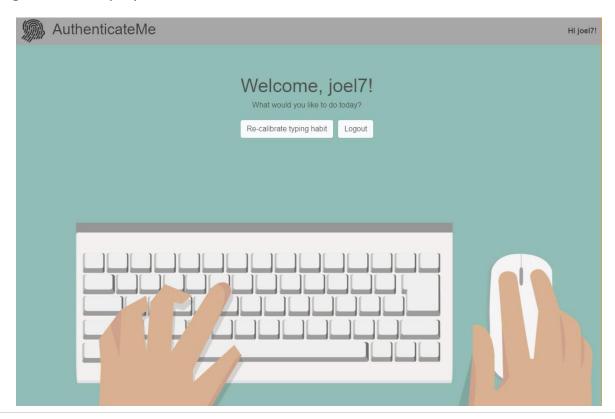


Security Question

Once you have failed your Typing Habit Authentication 3 times, you will be redirected to the Security Question Login page. Your security question will be displayed. Enter your answer, Case Sensitive and punctuation, and click 'Login'.



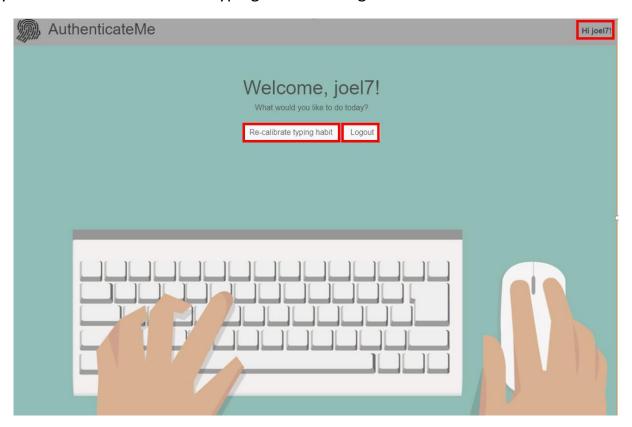
Once our system has confirmed, user will be allowed to access into the system and user homepage will be displayed.



Homepage

User Homepage

User Homepage will display a welcome message with the login username. The homepage also displays 2 functions – Recalibrate typing habit and Logout.

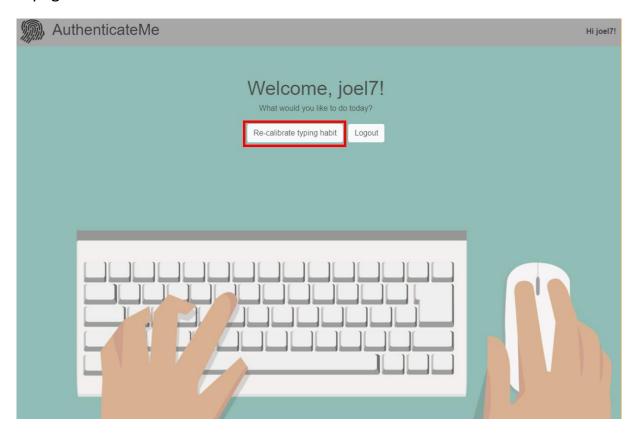


Functions:

- 1. Re-calibrating typing habit Allows user to re-calibrate their typing habit
- 2. Logout Allows user to exit AuthenticateMe system

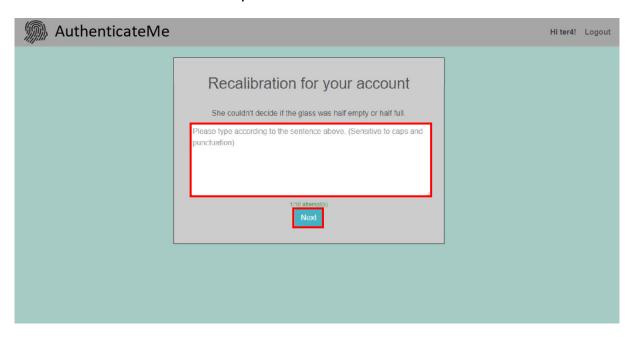
Re-calibrations

You can recalibrate your typing biometrics by clicking on the 'Re-calibrate typing habit" icon at the homepage.

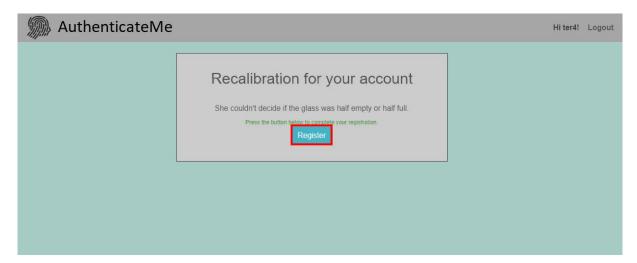


Next, key in the system generated sentence and click 'Next'. You will be required to repeat the process 10 times.

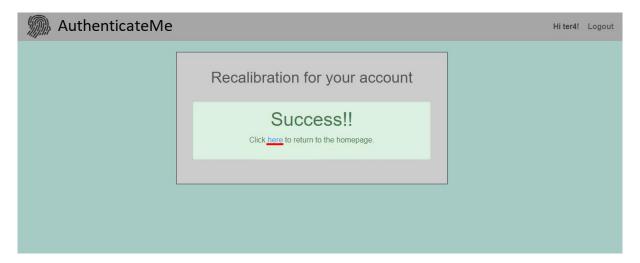
If you have made a mistake during your typing, you can use arrow keys or the mouse to navigate to the error and press the backspace button once for each character that you would like to remove. Do not hold the backspace button to remove 2 or more characters.



After 10 times, the system is prompt the user to click on the 'Register' button to complete their typing biometric re-calibration.

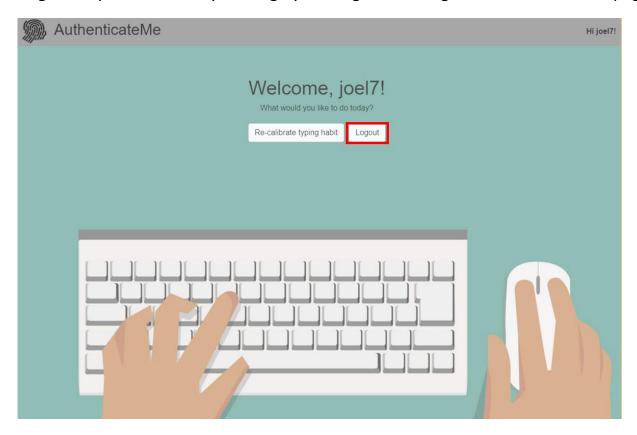


After the system is able to recalibrate your typing biometrics, it will show a success message. Click 'here' and you can return to your homepage.



Logout

You can logout of your account by clicking by clicking on the 'Logout' icon at the homepage.



You have successfully logout when the logout page has been displayed.

