User Manual

What is it?

This is a Student Information Management System that utilizes two files named "user.txt" and "unit.txt" located in the "data" folder. The application will feature multiple user roles including Admin, Teacher and Student, each with varying levels of access to different operations.

How to run?

1. Run the main.py file to start the application
2. The generate_test_data() function will generate test data for the program and saved the hardcoded users and units into the user.txt file and unit.txt file .
3. The main menu will then be prompted for the user to input their options, once logged in, the menu will be displayed accordingly based on the user's roles.
    a. Input "1" to login as an **ADMIN** user (*Username and password are case-sensitive)
       Admin username: ***admin***
       Admin password: ***password***
        i. Input "1" to search a user -> Insert the user's name to search. The user's information will be printed
        ii. Input "2" to list all users stored in the user.txt (*password will be encrypted)
        iii. Input "3" to list all units
        iv. Input "4" to change user's status: insert the name of the user to either disable/enable the user's account
        v. Input "5" to add a new user -> Insert new user's name, password and role)
        vi. Input "6" to delete an existing user -> Insert the user's username to delete the user from the stored list (user.txt file)
        vii. Input "7" to log out
        viii. Press enter to continue
    b. Input "2" to login as a **TEACHER** user (*Username and password are case-sensitive)
       Example teacher username: ***teacherA***
       Example teacher username:***pw1***
        i. Input "1" to list all teacher units
        ii. Input "2" to add a teaching unit -> Insert the unit code, name and capacity
        iii. Input "4" to delete a teaching unit -> Insert the unit code
        iv. Input "5" to show a unit's average, max and min score -> Insert the unit code, the unit's avg, max and min score will be printed
        v. Input "6" to log out
        vi. Press enter to continue
    c. Input "3" to login as a **STUDENT** user (*Username and password are case-sensitive)
       Example student username: ***studentA***
       Example student password: ***pw5***
        i. Input "1" to list all available units' information
        ii. Input "2" list all enrolled units
        iii. Input "3" to enrol in a unit -> Input the unit code to enrol
        iv. Input "4" to drop a unit -> Insert the unit code to drop
        v. Input "5" to check the score for a unit -> Input the unit code to check
        vi. Input "6" to generate a score for the inserted unit -> Insert the unit code of an enrolled unit
        vii. Input "7" to log out
        viii. Press enter to continue
    d. Input "4" to **EXIT** the program