

Authentication – output and testing

1. Execution of main.py in Authentication folder to execute only the authentication part.

```
C:\Users\grzeg\AppData\Local\Programs\Python\Python39\python.exe C:/Users/grzeg/PycharmProjects/Complete-Meditation/src/Authentication/main.py
*****
Welcome in personal CERN application (pCERNa). Choose one of the options below:
*****
[1] to log-in type 1
[2] to sign-up type 2
[3] to go back to the main menu type 3
[4] to quit the application type exit
*****
|
```

2. Login of an existing user.

```
C:\Users\grzeg\AppData\Local\Programs\Python\Python39\python.exe C:/Users/grzeg/PycharmProjects/Complete-Meditation/src/Authentication/main.py
*****
Welcome in personal CERN application (pCERNa). Choose one of the options below:
*****
[1] to log-in type 1
[2] to sign-up type 2
[3] to go back to the main menu type 3
[4] to quit the application type exit
*****
1
Provide a username: grzegorzpikus
Provide a password: Grzegorzpikus1987!
Welcome grzegorzpikus!
*****
Welcome grzegorzpikus! Please select your action by typing a number:
*****
[1] Print all experiments.
[2] Add an experiment.
[3] Delete an experiment.
[4] Download an experiment.
[5] Admin section.
*****
|
```

3. A user (username = grzegorzpikus) (no admin status) tried to get access to an admin section – the access was denied.

```
C:\Users\grzeg\AppData\Local\Programs\Python\Python39\python.exe C:/Users/grzeg/PycharmProjects/Complete-Meditation/src/Authentication/main.py
*****
Welcome in personal CERN application (pCERNa). Choose one of the options below:
*****
[1] to log-in type 1
[2] to sign-up type 2
[3] to go back to the main menu type 3
[4] to quit the application type exit
*****
1
Provide a username: grzegorzpikus
Provide a password: Grzegorzpikus1987!
Welcome grzegorzpikus!
*****
Welcome grzegorzpikus! Please select your action by typing a number:
*****
[1] Print all experiments.
[2] Add an experiment.
[3] Delete an experiment.
[4] Download an experiment.
[5] Admin section.
*****
5
You do not have privilege to do this action.

Process finished with exit code 0
```

4. Registration of a new user.

```
C:\Users\grzeg\AppData\Local\Programs\Python\Python39\python.exe C:/Users/grzeg/PycharmProjects/Complete-Meditation/src/Authentication/main.py
*****
Welcome in personal CERN application (pCERNa). Choose one of the options below:
*****
[1] to log-in type 1
[2] to sign-up type 2
[3] to go back to the main menu type 3
[4] to quit the application type exit
*****
2
Provide your first name and last name separated by space: Harry Baldwin
Provide your CERN e-mail: harrybaldwin@cern.ch
Provide your username: harrybalwin
Provide your password: Harrybaldwin2022!@
BEGIN
INSERT INTO users (name, email, username, password, admin)
VALUES ("Harry Baldwin", "harrybaldwin@cern.ch", "harrybalwin", "1fdd94e66d09b8aa8ce8b534fa404a1fb0e736e155b95e099c997336adf4e8ec", 0);
COMMIT

Process finished with exit code 0
```

5. Login as an admin.

```
C:\Users\grzeg\AppData\Local\Programs\Python\Python39\python.exe C:/Users/grzeg/PycharmProjects/Complete-Meditation/src/Authentication/main.py
*****
Welcome in personal CERN application (pCERNa). Choose one of the options below:
*****
[1] to log-in type 1
[2] to sign-up type 2
[3] to go back to the main menu type 3
[4] to quit the application type exit
*****
1
Provide a username: admin2022
Provide a password: Thisisonadminpassword1!
Welcome admin2022!
*****
Welcome admin2022! Please select your action by typing a number:
*****
[1] Print all experiments.
[2] Add an experiment.
[3] Delete anexperiment.
[4] Download an experiment.
[5] Admin section.
*****
```

6. Accessing the admin section.

```
*****
Welcome admin2022! Please select your action by typing a number:
*****
[1] Print all experiments.
[2] Add an experiment.
[3] Delete anexperiment.
[4] Download an experiment.
[5] Admin section.
*****
5
*****
Welcome admin! Please select your action by typing a number:
*****
[1] To print all registered users.
[2] To delete a user.
[3] To upgrade another user to be an administrator.
[4] Go back to the administrator menu.
[5] Go back to the user menu.
[6] Exit.
*****
```

7. Printing all registered by an admin.

```
*****
Welcome admin! Please select your action by typing a number:
*****
[1] To print all registered users.
[2] To delete a user.
[3] To upgrade another user to be an administrator.
[4] Go back to the administrator menu.
[5] Go back to the user menu.
[6] Exit.
*****
1
('Admin Admin', 'admin@cern.ch', 'admin2022', '7f54caf81b9cdfa9f70dcab80ccdf705f0e54316f67740d37163ac3e4db578c3', 1)
('Grzegorz Pikus', 'grzegorzpikus@cern.ch', 'grzegorzpikus', '786bbafa6eb0b73fa835d8d3bdd1df90484f932f6154c2acfaa65b8357791f71', 0)
('John Smith', 'johnsmith@cern.ch', 'johnsmith', 'e166f2e8b08eca5abb58696a92121f85d9b83b2650d6163d72a2e82ed54f64a5', 0)
('Harry Baldwin', 'harrybaldwin@cern.ch', 'harrybaldwin', '1fdd94e66d09b8aa8ce8b534fa404a1fb0e736e155b95e099c997336adf4e8ec', 0)
```

8. Deleting an existing user form the database by an adminstrtror.

```
1
Provide a username: admin2022
Provide a password: Thisisanadminpassword1!
Welcome admin2022!
*****
Welcome admin2022! Please select your action by typing a number:
*****
[1] Print all experiments.
[2] Add an experiment.
[3] Delete anexperiment.
[4] Download an experiment.
[5] Admin section.
*****
$
*****
Welcome admin! Please select your action by typing a number:
*****
[1] To print all registered users.
[2] To delete a user.
[3] To upgrade another user to be an administrator.
[4] Go back to the administrator menu.
[5] Go back to the user menu.
[6] Exit.
*****
$
Provide a username of an account to be deleted
harrybaldwin
A user harrybaldwin has been removed.
```

9. Unit tests

```
Test Results 36 ms
  unitTests 36 ms
    TestAuthentication 27 ms
    TestAuthenticationChecker 2 ms
    TestDatabaseManagment 21 ms
    TestInputChecker 36 ms

COMMIT
BEGIN
INSERT INTO users (name, email, username, password, admin)
VALUES ("Testing User", "testinguser@cern.ch", "testinguser", "Verywaekpassword123!!", 0);
COMMIT
Welcome admin2022!
The username does not exist. Try again.
BEGIN
INSERT INTO users (name, email, username, password, admin)
VALUES ("User Test", "usertest@cern.ch", "usertest", "93598eae53991b7d1e7b397c59be38901888268349c2b79aef1a1...");
COMMIT
User name already exists. Provide a different one.
Welcome grzegorzpikus!
Wrong e-mail! Try again.
Provide your first name and surname separated by space! Try again.
No space is allowed, try again.
Wrong e-mail! Try again.
The username does not exist. Try again.
The username does not exist. Try again.

Ran 24 tests in 0.102s

OK

Process finished with exit code 0
```