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 anexperiment.
 [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 separaded 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: 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.
*************************************************************************
```

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', '786bbafa6eb0b73fa835d8d3bbd1df90484f932f6154c2acfaa65b8357791f71', 0)
('John Smith', 'johnsmith@cern.ch', 'johnsmith', 'e166f2e8b08eca5abb58696a92121f85d9b83b2650d6163d72a2e82ed54f64a5', 0)
('Harry Baldwin', 'harrybaldwin@cern.ch', 'harrybalwin', '1fdd94e66d09b8aa8ce8b534fa404a1fb0e736e155b95e099c997336adf4e8ec', 0)
```

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

```
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.
***************************************************************************
 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.
***************************************************************************
 2
Provide a username of an account to be deleted
harrybaldwin
A user harrybaldwin has been removed.
```

9. Unit tests