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Class 12 Computer Project > @ acc_ctrl.py >
    acc_ctrl.py ×
         import mysql.connector as conn2
         from time import sleep
   3
        ≙from validate_email import validate_email
   4
   5
         '''This function will help the administrator to add new users.
   6
            Here, Username entered will be accepted only if same username is already not present in database.
   7
   8
            Secondly, here email entered will be accepted only if it really exists
            (i.e) the given email-address has an MX record and SMTP server port. Disposable emails will
   9
  10
            not be accepted here. Module used here is 'validate_email' '''
  11
  12
         def Add_new():
             mycon2 = conn2.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
  13
  14
             cursor = mycon2.cursor(buffered=True)
             no_user = int(input('Enter number of user you want to add: '))
  15
             for i in range(no_user):
  16
                                              Enter Login ID for the user: ")
  17
                 input_username = input("
  18
                 cursor.execute(f"SELECT username FROM accounts WHERE username = '{input_username}'")
  19
                 data = cursor.fetchone()
  20
                 if not data:
                     input_password = input(" Enter Password of the user: ")
 21
                     input_name = input(" Enter name of the user: ")
  22
  23
  24
                     def ent():
  25
                         input_email = input(" Enter email of the user: ")
                         cursor.execute(f"SELECT * FROM accounts WHERE email = '{input_email}'")
  26
  27
                         data2 = cursor.fetchone()
  28
                         if data2 != None:
  29
                              print("E-mail Address Already Registered.")
                              ent()
  30
```

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30
                            ent()
31
                        else:
                            print("Validating Details, please wait....")
32
33
                            try:
                                is_valid = validate_email(input_email)
34
35
                                if is_valid:
36
                                    cursor.execute(
                                        f"INSERT INTO accounts (username, passwd, name_u, email) VALUES('{input_username}', '{input_password}', "
37
                                        f"'{input_name}', '{input_email}')")
38
                                    mycon2.commit()
39
                                    print("Registering")
40
                                    sleep(2)
41
                                    print(f"Successfully Added User '{input_username}'")
42
43
                            except:
                                print("Some Error Occurred.")
44
45
                   ent()
47
                else:
                   print("User already in database.")
48
                   continue
           mycon2.close()
50
           return
52
53

eq'''This function will allow the administrator to update the every detail of the user like name, password
54
55
          username and email-address. Here email entered will be accepted only if it really exists (i.e) the given
          email-address has an MX record and SMTP server port. Disposable emails will not be accepted here.
56
57
          Modules used here are 'validate_email' and 'mysql.connector' '''
58
       def Update_user():
59
```

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acc ctrl.py X

```
def Update_user():
59
           mycon2 = conn2.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
60
           cursor = mycon2.cursor(buffered=True)
61
           no_user = int(input('Enter number of user you want to update: '))
62
63
           count = 0
64
           while count < no_user:</pre>
65
               user_name = str(input("
                                          Enter the username of the user you want to update: "))
               cursor.execute("SELECT * FROM accounts WHERE username = '{}'".format(user_name))
66
               data = cursor.fetchone()
67
68
               if data == None:
                   print(f"No user like '{user_name}' exists in database.") # Checking the wrong Input
69
                   Update_user()
70
71
               elif data[0] == 1:
                   print("Can't Update user. The specified username is Administrator.")
72
73
               else:
                            1 -> Update the user's username \n",
74
                   print("
                              2 -> Update the user's password \n"
75
                              3 -> Update the user's name \n"
76
                               4 -> Update the user's email address")
77
                   choice = int(input("Enter your choice (1 to 4): "))
78
                   if choice == 1:
79
                       new_username = str(input(f" Enter the new username of {user_name}: "))
                       cursor.execute("SELECT * FROM accounts WHERE username = '{}'".format(new_username))
81
                       data2 = cursor.fetchone()
82
83
                       if data2 == None:
84
                           cursor.execute(f"UPDATE accounts SET username = '{new_username}' WHERE username = '{user_name}'")
85
                           mycon2.commit() # Updating the username
                           print("Successfully Updated")
86
87
                       else:
88
                           print("Username Already Exists. \n User Not Updated :(")
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                       elif choice == 2:
                           new_password = str(input(f" Enter the new password of the {user_name}: "))
    90
                           cursor.execute(f"UPDATE accounts SET passwd = '{new_password}' WHERE username = '{user_name}'")
    91
                           mycon2.commit() # Updating the user
    92
                           print("Successfully Updated")
    93
    94
                       elif choice == 3:
    95
                           new_name = str(input(f"
                                                       Enter the new name of the {user_name}: "))
                           cursor.execute(f"UPDATE accounts SET name_u = '{new_name}' WHERE username = '{user_name}'")
    96
                           mycon2.commit() # Updating the user
    97
                           print("Successfully Updated")
    98
    99
                        elif choice == 4:
                                                       Enter the new email address of the {user_name}: "))
   100
                           new_mail = str(input(f"
                           cursor.execute(f"SELECT email FROM accounts WHERE email = '{new_mail}'")
   101
   102
                           data3 = cursor.fetchone()
   103
                           if data3 == None:
                               is_valid = validate_email(new_mail)
   104
   105
                               if is_valid:
                                    cursor.execute(f"UPDATE accounts SET email = '{new_mail}' WHERE username = '{user_name}'")
   106
                                    mycon2.commit() # Updating the user
   107
   108
                                    print("Successfully Updated")
~ 109
                                else:
   110
                                    print("Invalid Email Address. User not updated :(")
  111
                            else:
   112
                               print("Email Address Already registered. \n User Not updated :(")
   113
                       else:
± 114
                           print("Wrong Input")
   115
                           Update_user()
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                   count += 1
               mycon2.close()
               return
```

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<del>~</del> 120
               This function will help administrator to delete any user he/she wants from database
  121
  122
               by entering his/her username if it exists. But admin can't delete the administrator account
               Module used here is 'mysql.connector' '''
  123
  124
           def Del_user():
  125
               mycon2 = conn2.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
  126
               cursor = mycon2.cursor(buffered=True)
  127
               no_user = int(input("Enter number of accounts you want to delete: "))
  128
               count = 0
  129
  130
               while count < no_user:</pre>
  131
                   user_name = str(input("
                                               Enter the username of the user you want to delete: "))
                   cursor.execute(f"SELECT * FROM accounts WHERE username = '{user_name}'")
  132
                   data = cursor.fetchone()
  133
  134
                   if data == None:
                        print(f"No user like '{user_name}' exists in database.") # Checking the Wrong Input
  135
                       Del_user()
  136
  137
                   elif data[0] == 1:
                        print("Can't Delete user. The specified username is Administrator.")
  138
  139
                    else:
                        cursor.execute(f"DELETE FROM accounts where username = '{user_name}'")
  140
= 141
                       mycon2.commit() # Deleting the user
  142
                       sleep(2)
2: Favorites
  143
                        print("Successfully Deleted.")
  144
                   count += 1
  145
               mycon2.close()
  146
               return
ē 147
```

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₩ 148
           ''' This function will allow administrator to view every detail of every user in database.
   149
               Module used here is mysql.connector '''
   150
  151
           def All_u():
   152
               mycon2 = conn2.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
   153
               cursor = mycon2.cursor(buffered=True)
   154
               cursor.execute("SELECT * FROM accounts")
   155
               data = cursor.fetchall()
   156
               count = 0
   157
               for row in data:
   158
   159
                   tp = row
   160
                   count += 1
  161
                   print()
                   print(f"
                                    User {count}")
  162
                   print("
                                               : ", tp[0])
  163
                                ID
                                               : ", tp[1])
                   print("
                                Username
  164
   165
                   print("
                                Password
                                               : ", tp[2])
  166
                   print("
                                               : ", tp[3])
                                Name
   167
                   print("
                                E-mail Address : ", tp[4])
               mycon2.close()
   168
= 169
               return
   170
   171
  172
           '''This function will help administrator to view details of the user by entering
  173
              his/her username if it exists in database.'''
  174
175
176
           def View_user():
               mycon2 = conn2.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
```

¥ 177

cursor = mycon2.cursor(buffered=True)

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  177
              cursor = mycon2.cursor(buffered=True)
              num = int(input("Enter the number of users of which you want details of: "))
  178
  179
              count = num
  180
              while count != 0:
  181
                  user_name = str(input("
                                             Enter the username of the user: "))
                  cursor.execute(f"SELECT * FROM accounts WHERE username = '{user_name}'")
  182
  183
                  data = cursor.fetchone()
                  if not data:
  184
                      print("Username specified is invalid. Enter Again.")
  185
                      print()
  186
  187
                   else:
                      print(f"
                                                 {data[0]}")
  188
                                 ID:
                      print(f"
                                                 {data[1]}")
  189
                                  Username:
                      print(f"
                                                 {data[3]}")
  190
                                  Name:
                      print(f"
                                 Email-Address: {data[4]}")
  191
                      print()
  192
  193
                       count -= 1
  194
              return
  195
  196
          '''Sign_Up function will allow any new user running the software to register himself in database.
  197
  198
             For this, they have to create a username, password, give their name and enter their email address which
             really exists as it will be checked then only the user will be registered.
  200
             Module used here is 'validate_email' and 'mysql.connector' '''
  201
          |def Sign_Up():
  202
  203
              mycon2 = conn2.connect(host="localhost", user="root", password="Rinshu@03", database="book_shop")
  204
              cursor = mycon2.cursor(buffered=True)
  205
              input_username = input("
                                                   Create Username (Login ID) : ")
              cursor.execute(f"SELECT * FROM accounts WHERE username = '{input_username}'")
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    206
    207
    208
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```
cursor.execute(f"SELECT * FROM accounts WHERE username = '{input_username}'")
               data = cursor.fetchone()
               if data == None:
                   input_password = input("
                                                        Create Password: ")
  209
                   input_name = input("
                                                    Enter your name: ")
  210
  211
                   def ent():
  212
                       input_email = input("
                                                         Enter your email address: ")
  213
                       cursor.execute(f"SELECT * FROM accounts WHERE email = '{input_email}'")
  214
                       data2 = cursor.fetchone()
  215
                       if data2 != None:
  216
                           print("E-mail Address Already Registered.")
  217
                           ent()
  218
                       else:
  219
                           print("Validating Details, please wait....")
  220
                           is_valid = validate_email(input_email)
  221
                           if is_valid:
  222
                                cursor.execute(
  223
                                   f"INSERT INTO accounts (username, passwd, name_u, email) VALUES('{input_username}', "
  224
                                   f"'{input_password}', '{input_name}', '{input_email}')")
  225
                               mycon2.commit()
  226
                               print("Registering")
  227
                               sleep(2)
  228
                               print(f"Successfully Added User '{input_username}'")
                   ent()
  230
  231
               else:
                   print("User Already In Database.")
  232
                   print("Try Again")
  233
                   Sign_Up()
  234
AWS Explorer
               mycon2.close()
  235
               return
  236
  237
```