

```
1  # Inbuilt Modules
2  import smtplib
3  from string import capwords
4  from time import sleep
5  import datetime
6
7  # Project Modules
8  import mysql.connector as mycam
9  import config
10
11
12  # ----- #
13  # |                               Below Functions are Common                               | #
14  # ----- #
15
16  # -----
17  ''' This function will allow every user in database to place order for any book if it exists in database.
18      User is prompted every time to place another order if he/she wants.
19      When user says 'n' or 'no' function are called from other modules to generate invoice and invoice number.'''
20
21  def Place_ord(username):
22      ord_id_ls = []
23      cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
24      cursor = cam.cursor(buffered=True)
25      cursor.execute("SET SQL_SAFE_UPDATES = 0")
26
27      def work():
28          print()
29          book_name = str(input('Enter the name of the book ' + ': ')).lower()
30          cursor.execute("SELECT * FROM books WHERE title='{ }'".format(book_name))
31          data = cursor.fetchone()
32          if data == None:
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31 data = cursor.fetchone()
32 if data == None:
33     print('Sorry, No book named', book_name, 'found.')
34 else:
35     print(f"    Book named , {capwords(book_name)}, found details are as follows:-")
36     print("    Author's name:          ", capwords(data[2]) + ' ' + capwords(data[3]))
37     print("    Released Year:           ", data[4])
38     print("    Number of Pages:         ", data[8])
39     print("    Words Per Page (Approx): ", data[9])
40     print("    Publication:             ", capwords(data[6]))
41     print("    Category of Book:        ", capwords(data[5]))
42     print("    Available quantity:      ", data[7])
43     print("    Price of the book:       ", data[10])
44     choice = str(input("Do you want to order this Book ? "))
45
46     if choice in ['yes', 'Yes', 'YES', 'y', 'Y']:
47         quantity = int(input('Enter the QUANTITY you want to order: '))
48         print('                Checking Stock, please wait...')
49         sleep(2)
50
51         if quantity <= data[7]: # Checking if pieces specified to be bought are present or not for the specified book.
52             print('                Enough quantity found')
53             print('Please fill up your details below: ')
54
55             name = str(input('        Enter Name: '))
56             address = str(input('        Enter Address: '))
57             dist = str(input('        Enter District: '))
58             city = str(input('        Enter City: '))
59             stu = str(input('        Enter State/UT: '))
60             pin = int(input("        Enter Pincode: "))
61             country = str(input('        Enter Country: '))
62             phone = int(input('        Enter Phone number: '))
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63
64 # Email Address is fetched from the accounts table. This email address will be used to send email
65 cursor.execute(f"SELECT email FROM accounts where username = '{username}'")
66 email = cursor.fetchone()
67 amount = data[10] * quantity
68 cursor.execute(f"SELECT ID FROM accounts WHERE username = '{username}'")
69 custom_id = cursor.fetchone()
70 print(' Now we came at the final step of the process...')
71 print("          Total Amount to be paid is: ", amount)
72 print("          No Delivery Charges Applicable, i.e. Delivery Free")
73 confirm = str(input(' Are you sure you want to confirm this order? '))
74
75 if confirm in ['yes', 'Yes', 'YES', 'y', 'Y']:
76     details = [name, address, dist, city, stu, pin, country, phone, custom_id]
77     cursor.execute(
78         f"UPDATE books SET stock_quantity = stock_quantity - {quantity} WHERE title = '{book_name}'")
79     cam.commit()
80     cursor.execute(
81         f"INSERT INTO orders "
82         f"(customer_name, address, district, city, state_ut, pincode, country, e_mail, phone_no, pieces, bookname, "
83         f"user_name, order_type) "
84         f"VALUES ('{name}', '{address}', '{dist}', '{city}', '{stu}', {pin}, '{country}', '{email[0]}', {phone}, {quantity}, "
85         f"'{book_name}', '{username}', 'new')")
86     cam.commit()
87     cursor.execute(
88         f"SELECT ord_no, order_dt FROM orders WHERE customer_name = '{name}' and phone_no = {phone} ORDER BY ord_no DESC")
89     data2 = cursor.fetchone()
90     ord_id_ls.append(data2[0])
91     print("Processing your order...")
92     sleep(2)
93     print()
94     print("          Order Placed Successfully.")
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93         print()
94         print("                Order Placed Successfully.")
95     else:
96         print('Your order has been discarded')
97
98     else:
99         print('Sorry', data[7], 'pieces are left')
100        print('Thanks for visiting, keep shopping :)')
101    elif choice in ['no', 'No', 'NO', 'n', 'N']:
102        print('Okay.')
103    else:
104        print('Invalid Input')
105
106    print()
107    ch = str(input("Want to place more orders? (y/n): ")).lower()
108    if ch in ['y', 'yes']:
109        work()
110    else:
111        details.append(email[0])
112        details.append(username)
113        inv = config.Inv_no_gen(username)
114        config.Pdf_generate(details, ord_id_ls, inv[0], inv[1])
115        print("Thanks for visiting us :)")
116        print()
117    work()
118    return
119
120    # -----
121    '''This function will be used only if the order is specified for return/replace or order is cancelled
122    For that, message and subject or email is defined in their respective functions.
123    Sender's Email Address and Password is given in config module of the project
124    An email will be sent to the email address of the user with the details.'''
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125
126 def Send_email(email, subject, msg):
127     try:
128         server = smtplib.SMTP('smtp.gmail.com:587')
129         server.ehlo()
130         server.starttls()
131         server.login(config.EMAIL_ADDRESS, config.PASSWORD)
132         final_message = 'Subject: {}\n\n{}'.format(subject, msg)
133         server.sendmail(config.EMAIL_ADDRESS, email, final_message)
134         server.quit()
135         print(f"An email with all details is sent to you on your E-mail Address {email}")
136     except:
137         print("Email failed to send.")
138     return
139
140 # -----
141 '''This function will allow the user to return or replace the order within 7 days after the delivery date.
142 Else a message will be displayed that the order is not eligible for passing the Return/Replace Policy.
143 By default, the delivery date is the date 7 days after the date of placing the order'''
144
145 def Return_replace(username):
146     cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
147     cursor = cam.cursor(buffered=True)
148     cursor.execute(f"SELECT ord_no FROM orders WHERE user_name = '{username}'")
149     record = cursor.fetchall()
150     L = []
151     if not record:
152         print('No order to return or replace')
153     else:
154         cursor.execute(
155             f"SELECT * from orders where user_name = '{username}' and DATEDIFF(NOW(), order_dt) >= 7 and DATEDIFF(NOW(), order_dt) <= 14 "
156             f"ORDER by ord_no DESC")
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157 data = cursor.fetchall()
158 if not data:
159     print('None of your order is eligible to return or replace.')
160 else:
161     print('We have found', len(data), 'orders have been delivered to you')
162     print('List of the orders that have been delivered to you are as follows:-')
163     for i in data:
164         L.append(i[0])
165         print('    Book Name      : ', i[11])
166         print('    Order Date     : ', i[12])
167         print('    Order ID       : ', i[0])
168         print('    Customer Name  : ', i[1])
169         print(f"    Location        : {i[2]}, {i[3]}, {i[4]}, {i[5]}, {i[6]}, {i[7]}")
170         print('    Email          : ', i[8])
171         print('    Phone no       : ', i[9])
172         print('    No of Books    : ', i[10])
173     print()
174
175     choice = str(input('Do you want to return or replace any of the above orders (y/n) ')).lower()
176
177     def work(c):
178         if c == 'y':
179             ID = int(input('Enter the order ID for which you want to return or replace: '))
180             if ID not in L:
181                 print('No order ID ', ID, ' matched from the orders that have been delivered to you')
182             else:
183                 print('You have chosen order ID: ', ID)
184                 print('Few details of your order are as follows: ')
185                 print()
186                 cursor.execute(f"SELECT * FROM orders WHERE ord_no = {ID}")
187                 data2 = cursor.fetchone()
188                 print('    Book name: ', data2[11])
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165 print('    Book Name      : ', i[11])
166 print('    Order Date    : ', i[12])
167 print('    Order ID       : ', i[0])
168 print('    Customer Name   : ', i[1])
169 print(f"    Location          : {i[2]}, {i[3]}, {i[4]}, {i[5]}, {i[6]}, {i[7]}")
170 print('    Email           : ', i[8])
171 print('    Phone no          : ', i[9])
172 print('    No of Books       : ', i[10])
173 print()
174
175 choice = str(input('Do you want to return or replace any of the above orders (y/n) ')).lower()
176
177 def work(c):
178     if c == 'y':
179         ID = int(input('Enter the order ID for which you want to return or replace: '))
180         if ID not in L:
181             print('No order ID ', ID, ' matched from the orders that have been delivered to you')
182         else:
183             print('You have chosen order ID: ', ID)
184             print('Few details of your order are as follows: ')
185             print()
186             cursor.execute(f"SELECT * FROM orders WHERE ord_no = {ID}")
187             data2 = cursor.fetchone()
188             print('    Book name: ', data2[11])
189             print('    Quantity: ', data2[10])
190             print('    Order date: ', data2[12])
191             print()
192             print('By SNT.bookshop Return and Replace policies, you have below two options')
193             print('1. Return')
194             print('2. Replace')
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196             opt = int(input('Enter the option number that you want to select: '))
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if opt == 1:
    print('You have entered under our Return policy')
    confirm = str(input('Are you sure you want to return this order? (y/n) ')).lower()
    if confirm in ['y', 'yes']:
        print('    Processing the Return')
        msg = f"Your request for returning your order has been accepted. Some details for it are as follows: \n" \
            f"Book Name: {capwords(data2[11])} \n" \
            f"Order ID: {data2[0]} \n" \
            f"Name: {data2[1]} \n" \
            f"Address: {data2[2]} \n" \
            f"District: {data2[3]} \n" \
            f"City: {data2[4]} \n" \
            f"State: {data2[5]} \n" \
            f"Pincode: {data2[6]} \n" \
            f"Country: {data2[7]} \n" \
            f"Phone: {data2[9]} \n" \
            f"Pieces Ordered: {data2[10]} \n" \
            f"Order Date & Time: {data2[12]} \n"
        sub = f"Information of Returning Order on S & T Bookshop"
        Send_email(data2[8], sub, msg) # Calling Function to send email
        # Real Email is sent here.
        # Email is sent actually to the mailbox if the given email really exists
        cursor.execute(
            f"INSERT INTO orders "
            f"(customer_name, address, district, city, state_ut, pincode, country, e_mail, phone_no, pieces, bookname, "
            f"user_name, order_type) VALUES ('{data2[1]}', '{data2[2]}', '{data2[3]}', '{data2[4]}', '{data2[5]}', "
            f"{data2[6]}', '{data2[7]}', '{data2[8]}', {data2[9]}, {data2[10]}, "
            f"'{data2[11]}', '{username}', 'return')")
        cam.commit()
        cursor.execute(f"DELETE FROM orders WHERE ord_no = {ID}")
        cam.commit()
```



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229     print('    Successfully requested for return to your order.')
230     print(
231         '    Our courier boy will come within the next day to collect the package after verifying its condition,
232         '    be ready with the packed book')
233     print('    Money will be refund to your account within 2-3 days')
234     return
235 else:
236     print('    Return process cancelled')
237
238 elif opt == 2:
239     print('You have entered under our Replace policy.')
240     confirm = str(input('Are you sure you want to replace for this order? (y/n) ')).lower()
241
242     if confirm in ['y', 'yes']:
243         msg = f"Your request for replacing your order has been accepted. Some details for it are as follows: \n" \
244             f"Book Name: {capwords(data2[11])} \n" \
245             f"Order ID: {data2[0]} \n" \
246             f"Name: {data2[1]} \n" \
247             f"Address: {data2[2]} \n" \
248             f"District: {data2[3]} \n" \
249             f"City: {data2[4]} \n" \
250             f"State: {data2[5]} \n" \
251             f"Pincode: {data2[6]} \n" \
252             f"Country: {data2[7]} \n" \
253             f"Phone: {data2[9]} \n" \
254             f"Pieces Ordered: {data2[10]} \n" \
255             f"Order Date & Time: {data2[12]} \n" \
256             f"Delivery will be provided within 7 working days. \n" \
257             f"Sorry for the inconvenience :)"
258         sub = f"Information of Replacing Order on S & T Bookshop"
259         print("    Successfully requested for replacement of your order.")
260         Send_email(data2[8], sub, msg) # Calling Function to send email
```

```
260 send_email(data2[0], sub, msg) # calling function to send email
261 # Real Email is sent here.
262 # Email is sent actually to the mailbox if the given email really exists
263 cursor.execute(
264     f"INSERT INTO orders "
265     f"(customer_name, address, district, city, state_ut, pincode, country, e_mail, phone_no, pieces, bookname, "
266     f"user_name, order_type) VALUES ('{data2[1]}', '{data2[2]}', '{data2[3]}', '{data2[4]}', '{data2[5]}', {data2[6]}, "
267     f"'{data2[7]}', '{data2[8]}', {data2[9]}, {data2[10]}, "
268     f"'{data2[11]}', '{username}', 'replace'))"
269 cam.commit()
270 cursor.execute(f"DELETE FROM orders WHERE ord_no = {ID}")
271 cam.commit()
272 print(
273     '    Our courier boy will come within the next day to collect the package after verifying its condition, '
274     '    be ready with the packed book')
275 print(
276     "    Replacement will be completed within 7 working days until your order has been delivered. ")
277 elif confirm in ['n', 'no']:
278     print("Replacement Cancelled")
279     print("Exiting")
280     return
281 else:
282     print('Invalid option choosen.')
283 elif c in ['n', 'no']:
284     print("Exiting")
285     return
286 else:
287     print("Wrong Input")
288     again_t = str(input("Do you want to return or replace any of the above orders? (y/n) ")).lower()
289     if again_t in ['yes', 'y']:
290         work(again_t)
```

```
290         work(again_t)
291     elif again_t in ['n', 'no']:
292         print("Exiting")
293         return
294     else:
295         print("Invalid Input.")
296
297     work(choice)
298     cam.close()
299     return
300
301
302 # ----- #
303 # |                               Below Functions are for Administrator                               |
304 # ----- #
305
306 # -----
307 '''This function will allow the administrator to cancel as many orders he wants by specifying the Order ID
308    An email will be sent to the user with details. Order can be cancelled only within 7 days after placing order'''
309
310 def Cancel_ord(): # Admin can cancel any user's order
311     cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
312     cursor = cam.cursor(buffered=True)
313     cursor.execute("SELECT ord_no FROM orders WHERE DATEDIFF(NOW(), order_dt) <= 7")
314     rec = cursor.fetchall()
315     if len(rec) == 0:
316         print("No orders to cancel.")
317         print("Sorry")
318     else:
319         print(f"Only {len(rec)} order(s) is/are eligible to cancel.")
320         num = int(input(f"Enter number of orders you want to cancel (not more than {len(rec)}): "))
321         if num <= len(rec):
```



```
351         f"Pieces ordered: {data[10]} \n" \
352         f"Order Date & Time: {data[12]}"
353     email = data[8]
354     sub = 'Regarding Cancellation of Order on S & T Bookshop'
355     Send_email(email, sub, msg)
356     cursor.execute(f"DELETE FROM orders WHERE ord_no = {order_id}")
357     cam.commit()
358     print("Successfully cancelled your order.")
359     else:
360         print("Order not eligible to cancel.")
361     else:
362         print(f"Not possible to cancel more than {len(rec)} orders.")
363         Cancel_ord()
364     cam.close()
365     return
366
367     # -----
368     '''This function will allow administrator to update the order address of multiple orders'''
369
370 def Update_ord_addr(): # Admin can update any user's order
371     cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
372     cursor = cam.cursor(buffered=True)
373     cursor.execute("SELECT * FROM orders WHERE DATEDIFF(NOW(), order_dt) <= 7")
374     lim = cursor.fetchall()
375     if not lim:
376         print("No orders are eligible for update of address.")
377     else:
378         print(f"Only {len(lim)} order(s) is/are eligible for update of address.")
379
380     def work(data):
381         num = int(input('Enter the number of orders\'s addresses you want to update: '))
382         lst = [(data[i][0]) for i in range(len(data))]
```

```
383 if num <= len(data):
384     for i in range(num):
385         order_id = int(input('Enter the Order ID to update the order: '))
386         if order_id in lst:
387             new_addr = str(input('    Enter the new address for order ID ' + str(order_id) + ': '))
388             new_city = str(input('    Enter the new city for order ID    ' + str(order_id) + ': '))
389             new_pinc = int(input('    Enter the new pincode for order ID ' + str(order_id) + ': '))
390             new_dist = str(input('    Enter the new district for Order ID' + str(order_id) + ': '))
391             new_stat = str(input('    Enter the new State/UT for Order ID' + str(order_id) + ': '))
392             cursor.execute("SET SQL_SAFE_UPDATES = 0")
393             cursor.execute("UPDATE orders SET address = '{}' WHERE ord_no = {}".format(new_addr, order_id))
394             cam.commit()
395             cursor.execute("UPDATE orders SET city = '{}' WHERE ord_no = {}".format(new_city, order_id))
396             cam.commit()
397             cursor.execute("UPDATE orders SET pincode = {} WHERE ord_no = {}".format(new_pinc, order_id))
398             cam.commit()
399             cursor.execute("UPDATE orders SET district = '{}' WHERE ord_no = {}".format(new_dist, order_id))
400             cam.commit()
401             cursor.execute("UPDATE orders SET state_ut = '{}' WHERE ord_no = {}".format(new_stat, order_id))
402             cam.commit()
403             cursor.execute(f"SELECT e_mail FROM orders WHERE ord_no = {order_id}")
404             email = cursor.fetchone()
405             msg = f"Your Order has been updated successfully \n. " \
406                 | f"New Location of the order is {new_addr}, {new_city}, {new_pinc}, {new_city}, {new_stat} :)"
407             sub = "Information of Order Update on S & T Book Shop Management System"
408             Send_email(email[0], sub, msg)
409             print('Successfully Updated')
410             print(f"regarding order update for new location on email address {email[0]}")
411         else:
412             print("This order ID is not eligible for update of order address.")
413             continue
414     else:
```

```
413         continue
414     else:
415         print("Invalid Input. Try Again")
416         work(data)
417     work(lim)
418     cam.close()
419     return
420
421 # -----
422 '''This function will allow administrator to view all orders in database of every user.'''
423
424 def View_all_ords(): # Admin can view all user's order
425     cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
426     cursor = cam.cursor(buffered=True)
427     print(" 1 -> View all New Orders Placed \n"
428           " 2 -> View all Orders for Return \n"
429           " 3 -> View all Orders for Replacement \n"
430           " 4 -> View all Orders including all categories")
431     ch = int(input(" Enter your choice (1 to 4): "))
432
433     def start(choice):
434         if choice == 1:
435             cursor.execute("SELECT * FROM orders WHERE order_type = 'new' ORDER BY ord_no DESC")
436             data1 = cursor.fetchall()
437             if not data1:
438                 print("No orders.")
439             else:
440                 for row in data1:
441                     tp = row
442                     print("    Order ID      : ", tp[0])
443                     print("    Book Name     : ", capwords(tp[11]))
444                     print("    Pieces        : ", tp[10])
```



```
445     print("    Customer Name : ", capwords(tp[1]))
446     print("    Address      : ", tp[2])
447     print("    District    : ", tp[3])
448     print("    City         : ", tp[4])
449     print("    State       : ", tp[5])
450     print("    Pincode     : ", tp[6])
451     print("    Country     : ", tp[7])
452     print("    E-mail Address : ", tp[8])
453     print("    Phone       : ", tp[9])
454     print("    Order Date   : ", tp[12])
455     print("    Username    : ", tp[13])
456     print()
457 elif choice == 2:
458     cursor.execute("SELECT * FROM orders WHERE order_type = 'return' ORDER BY ord_no DESC")
459     data2 = cursor.fetchall()
460     if not data2:
461         print("No orders.")
462     else:
463         for row in data2:
464             tp = row
465             print("    Order ID      : ", tp[0])
466             print("    Book Name     : ", capwords(tp[11]))
467             print("    Pieces        : ", tp[10])
468             print("    Customer Name : ", capwords(tp[1]))
469             print("    Address       : ", tp[2])
470             print("    District      : ", tp[3])
471             print("    City          : ", tp[4])
472             print("    State         : ", tp[5])
473             print("    Pincode       : ", tp[6])
474             print("    Country       : ", tp[7])
475             print("    E-mail Address : ", tp[8])
476             print("    Phone         : ", tp[9])
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477         print("    Order Date      : ", tp[12])
478         print("    Username        : ", tp[13])
479         print()
480     elif choice == 3:
481         cursor.execute("SELECT * FROM orders WHERE order_type = 'replace' ORDER BY ord_no DESC")
482         data1 = cursor.fetchall()
483         if not data1:
484             print("No orders.")
485         else:
486             for row in data1:
487                 tp = row
488                 print("    Order ID          : ", tp[0])
489                 print("    Book Name         : ", capwords(tp[1]))
490                 print("    Pieces            : ", tp[10])
491                 print("    Customer Name     : ", capwords(tp[1]))
492                 print("    Address           : ", tp[2])
493                 print("    District          : ", tp[3])
494                 print("    City              : ", tp[4])
495                 print("    State             : ", tp[5])
496                 print("    Pincode           : ", tp[6])
497                 print("    Country            : ", tp[7])
498                 print("    E-mail Address    : ", tp[8])
499                 print("    Phone             : ", tp[9])
500                 print("    Order Date        : ", tp[12])
501                 print("    Username          : ", tp[13])
502                 print()
503     elif choice == 4:
504         cursor.execute("SELECT * FROM orders ORDER BY ord_no DESC")
505         data = cursor.fetchall()
506         if not data:
507             print("No orders.")
508         else:
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509     for row in data:
510         tp = row
511         print("    Order ID      : ", tp[0])
512         print("    Book Name    : ", capwords(tp[11]))
513         print("    Pieces        : ", tp[10])
514         print("    Customer Name : ", capwords(tp[1]))
515         print("    Address       : ", tp[2])
516         print("    District      : ", tp[3])
517         print("    City          : ", tp[4])
518         print("    State         : ", tp[5])
519         print("    Pincode       : ", tp[6])
520         print("    Country       : ", tp[7])
521         print("    E-mail Address : ", tp[8])
522         print("    Phone        : ", tp[9])
523         print("    Order Date    : ", tp[12])
524         print("    Username      : ", tp[13])
525         print("    Order Type    : ", tp[14])
526         if tp[14] not in ['return', 'replace']:
527             cursor.execute(
528                 f"SELECT DATE(order_dt) FROM orders WHERE DATEDIFF(NOW(), order_dt) <= 7 AND ord_no = {tp[0]}")
529             data2 = cursor.fetchone()
530             if not data2:
531                 cursor.execute(
532                     f"SELECT DATE(DATE_ADD(order_dt, INTERVAL 7 DAY)) FROM orders WHERE ord_no = {tp[0]}")
533                 data3 = cursor.fetchone()
534                 print(f"    Order Status    : Delivered on {data3[0]}")
535             else:
536                 print("    Order Status    : In transit")
537         print()
538     else:
539         ch2 = int(input("Wrong Input. Enter Again: "))
```

```
ch2 = int(input("Wrong Input. Enter Again: "))
start(ch2)
```

```
start(ch)
cam.close()
return
```

```
# -----  
'''This function will allow administrator to view all orders of a user'''
```

```
def View_all_u(): # Admin can view any user's order particularly
    cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
    cursor = cam.cursor(buffered=True)
    cursor.execute("SELECT ord_no FROM orders")
    data = cursor.fetchall()
    if not data:
        print("No orders in database.")
    else:
        user = str(input("Enter the customer's username: "))
        cursor.execute(f"SELECT * FROM orders WHERE user_name = '{user}' ORDER BY order_dt DESC")
        data2 = cursor.fetchall()
        if data2 == None:
            print(f"No orders of username '{user}'.")
        else:
            for row in data2:
                tp = row
                print("    Order ID      : ", tp[0])
                print("    Book Name     : ", capwords(tp[11]))
                print("    Pieces        : ", tp[10])
                print("    Customer Name : ", capwords(tp[1]))
                print("    Address       : ", tp[2])
```

```
569 print("    Address      : ", tp[2])
570 print("    District    : ", tp[3])
571 print("    City          : ", tp[4])
572 print("    State         : ", tp[5])
573 print("    Pincode       : ", tp[6])
574 print("    Country       : ", tp[7])
575 print("    E-mail Address : ", tp[8])
576 print("    Phone        : ", tp[9])
577 print("    Order Date    : ", tp[12])
578 print("    Order Type    : ", capwords(tp[14]))
579 if tp[14] not in ['return', 'replace']:
580     cursor.execute(
581         f"SELECT DATE(order_dt) FROM orders WHERE DATEDIFF(NOW(), order_dt) <= 7 AND ord_no = {tp[0]}")
582     data2 = cursor.fetchone()
583     if not data2:
584         cursor.execute(
585             f"SELECT DATE DATE_ADD(order_dt, INTERVAL 7 DAY) FROM orders WHERE ord_no = {tp[0]}")
586         data3 = cursor.fetchone()
587         print(f"    Order Status : Delivered on {data3[0]}")
588     else:
589         print("    Order Status : In transit")
590     print()
591 cam.close()
592 return
593
594 # -----
595 '''This function will allow administrator to view all orders of a particular date'''
596
597 def View_ord_dt(): # Admin can view any user's order by date
598     cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
599     cursor = cam.cursor(buffered=True)
600     cursor.execute("SELECT ord_no FROM orders")
```

```
601 data = cursor.fetchall()
602 if not data:
603     print("No orders in database.")
604 else:
605     dt = str(input("Enter date (YYYY-MM-DD): "))
606     cursor.execute(f"SELECT * FROM orders WHERE DATE(order_dt) = '{dt}'")
607     data = cursor.fetchall()
608     for row in data:
609         tp = row
610         print("    Order ID      : ", tp[0])
611         print("    Book Name     : ", capwords(tp[1]))
612         print("    Pieces        : ", tp[10])
613         print("    Customer Name  : ", capwords(tp[1]))
614         print("    Address       : ", tp[2])
615         print("    District      : ", tp[3])
616         print("    City          : ", tp[4])
617         print("    State         : ", tp[5])
618         print("    Pincode       : ", tp[6])
619         print("    Country       : ", tp[7])
620         print("    E-mail Address : ", tp[8])
621         print("    Phone         : ", tp[9])
622         print("    Order Date    : ", tp[12])
623         print("    Username      : ", tp[13])
624         print("    Order Type    : ", capwords(tp[14]))
625         if tp[14] not in ['return', 'replace']:
626             cursor.execute(f"SELECT DATE(order_dt) FROM orders WHERE DATEDIFF(NOW(), order_dt) <= 7 AND ord_no = {tp[0]}")
627             data2 = cursor.fetchone()
628             if not data2:
629                 cursor.execute(f"SELECT DATE(DATE_ADD(order_dt, INTERVAL 7 DAY)) FROM orders WHERE ord_no = {tp[0]}")
630                 data3 = cursor.fetchone()
631                 print(f"    Order Status   :   Delivered on {data3[0]}")
632             else:
```

```
632
633         print("    Order Status    : In transit")
634     print()
635     cam.close()
636     return
637
638 # -----
639 # |                                     Below Functions are only for non-admin users                                     |
640 # -----
641
642 # -----
643 '''This function will allow users to cancel their order only if they cancel it within 7 days of the date since
644 order is placed. An email will be sent to the user with the details.'''
645
646 def Cancel_ord_u(username):
647     cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
648     cursor = cam.cursor(buffered=True)
649     cursor.execute(
650         f"SELECT * from orders where user_name = '{username}' and DATEDIFF(NOW(), order_dt) <= 7 ORDER by ord_no DESC")
651     data = cursor.fetchall()
652     list1 = []
653     if not data:
654         print("None of your orders are eligible to cancel. Sorry :)")
655     else:
656         print("This is the list of your orders which are eligible to cancel: ")
657         for row in data:
658             tp = row
659             list1.append(tp[0])
660             print("    Order ID        : ", tp[0])
661             print("    Book Name       : ", capwords(tp[11]))
662             print("    Pieces          : ", tp[10])
663             print("    Customer Name   : ", capwords(tp[1]))
```



```
663 print("    Customer Name : ", capwords(tp[1]))
664 print("    Address      : ", tp[2])
665 print("    District     : ", tp[3])
666 print("    City          : ", tp[4])
667 print("    State          : ", tp[5])
668 print("    Pincode        : ", tp[6])
669 print("    Country         : ", tp[7])
670 print("    E-mail Address : ", tp[8])
671 print("    Phone           : ", tp[9])
672 print("    Order Date      : ", tp[12])
673 print("    Order Type      : ", tp[14])
674
675 if tp[14] not in ['return', 'replace']:
676     cursor.execute(f"SELECT DATE(order_dt) FROM orders WHERE DATEDIFF(NOW(), order_dt) <= 7 AND ord_no = {tp[0]}")
677     data2 = cursor.fetchone()
678     if not data2:
679         cursor.execute(f"SELECT DATE(DATE_ADD(order_dt, INTERVAL 7 DAY)) FROM orders WHERE ord_no = {tp[0]}")
680         data3 = cursor.fetchone()
681         print(f"    Order Status : Delivered on {data3[0]}")
682     else:
683         print("    Order Status : In transit")
684 print()
685
686 def choose():
687     choice = int(input("Enter the Order ID to cancel: "))
688     return choice
689
690 ch = choose()
691 if ch in list1:
692     cursor.execute(f"SELECT * FROM orders WHERE ord_no = {ch}")
693     data2 = cursor.fetchone()
694     cursor.execute(f"SELECT publication, author_fname, author_lname FROM books WHERE title = '{data2[11]}'")
```

```
694 cursor.execute(f"DELETE FROM orders where ord_no = {data2[11]}")
695 data3 = cursor.fetchone()
696 msg = f"Your Order has been cancelled as per your request. Please review the product on our website. \n\n" \
697      f"Book Name: {capwords(data2[11])} \n" \
698      f"Publication: {capwords(data3[0])} \n" \
699      f"Author's Name: {capwords(data3[1])} {capwords(data3[2])} \n" \
700      f"Order ID: {data2[0]} \n" \
701      f"Name: {capwords(data2[1])} \n" \
702      f"Address: {data2[2]} \n" \
703      f"District: {data2[3]} \n" \
704      f"City: {data2[4]} \n" \
705      f"State: {data2[5]} \n" \
706      f"Pincode: {data2[6]} \n" \
707      f"Country: {data2[7]} \n" \
708      f"Phone: {data2[9]} \n" \
709      f"Pieces Ordered: {data2[10]} \n" \
710      f"Order Date & Time: {data2[12]} \n" \
711      f"Order Status: Cancelled on {datetime.datetime.now()}"
712 email = data2[8]
713 sub = 'Regarding Cancellation of Order on S & T Bookshop'
714 Send_email(email, sub, msg)
715 cursor.execute("SET SQL_SAFE_UPDATES = 0")
716 cursor.execute(
717     f"UPDATE books SET stock_quantity = stock_quantity + {data2[10]} WHERE title = '{data2[11]}'")
718 cam.commit()
719 cursor.execute(f"DELETE FROM orders where ord_no = {ch}")
720 cam.commit()
721 print("Successfully Cancelled the Order.")
722 if len(list1) > 1:
723     ch2 = str(input("    Want to cancel more Orders? (y OR n) "))
724     if ch2 == 'y' or ch2 == 'Y':
725         Cancel_ord_u(username)
```

```
725         Cancel_ord_u(username)
726     elif ch2 == 'n' or ch2 == 'N':
727         cam.close()
728         return
729     else:
730         print("Wrong Input")
731         return
732 else:
733     pass
734
735 # -----
736 '''This function will allow administrator to update his/her order address if they do it within 7 days after
737 order is being placed. An email will be sent with few order details and new location of delivery.'''
738
739 def Up_ord_au(username):
740     cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
741     cursor = cam.cursor(buffered=True)
742     cursor.execute(f"SELECT * FROM orders WHERE user_name = '{username}' and DATEDIFF(NOW(), order_dt) <= 7 ORDER BY ord_no DESC")
743     data = cursor.fetchall()
744     list1 = []
745     if data == None:
746         print("No 'IN TRANSIT' orders in database for your username.")
747     else:
748         print("This is the list of your orders eligible for updating the address: ")
749         for row in data:
750             tp = row
751             list1.append(tp[0])
752             print("    Order ID:      ", tp[0])
753             print("    Book Name:      ", capwords(tp[1]))
754             print("    Pieces:         ", tp[10])
755             print("    Customer Name:  ", capwords(tp[1]))
756             print("    Address:        ", tp[2])
```

```
757 print("    District:    ", tp[3])
758 print("    City:      ", tp[4])
759 print("    State/UT:    ", tp[5])
760 print("    Pincode:     ", tp[6])
761 print("    Country:     ", tp[7])
762 print("    E-mail Address: ", tp[8])
763 print("    Phone:       ", tp[9])
764 print("    Order Date:   ", tp[12])
765 print()
```

```
766
767 def choose():
768     choice = int(input("Enter the Order ID to update address: "))
769     return choice
770 ch = choose()
771 if ch in list1:
772     new_addr = str(input("Enter the new address: "))
773     new_city = str(input("Enter City: "))
774     new_pinc = int(input('Enter pincode: '))
775     new_dist = str(input("Enter District: "))
776     new_stat = str(input("Enter State/UT" + ': '))
777     cursor.execute("SET SQL_SAFE_UPDATES = 0")
778     cursor.execute(f"UPDATE orders SET address = '{new_addr}' WHERE ord_no = {ch}")
779     cam.commit()
780     cursor.execute(f"UPDATE orders SET city = '{new_city}' WHERE ord_no = '{ch}'")
781     cam.commit()
782     cursor.execute(f"UPDATE orders SET pincode = {new_pinc} WHERE ord_no = {ch}")
783     cam.commit()
784     cursor.execute(f"UPDATE orders SET district = '{new_dist}' WHERE ord_no = '{ch}'")
785     cam.commit()
786     cursor.execute(f"UPDATE orders SET state_ut = '{new_stat}' WHERE ord_no = '{ch}'")
787     cam.commit()
788     print('Successfully Updated')
```

```
789 cursor.execute(f"SELECT email FROM accounts WHERE username = '{username}'")
790 email = cursor.fetchone()
791 msg = f"Your Order has been updated successfully. \n" \
792       f"New Location of the order is {new_addr}, {new_city}, {new_pinc}, {new_city}, {new_stat} :)"
793 sub = "Information of Order Update on S & T Book Shop Management System"
794 Send_email(email[0], sub, msg)
795 print()
796
797 if len(list1) > 1:
798     ch2 = str(input("    Want to update more Orders? (y OR n): "))
799     if ch2 == 'y' or ch2 == 'Y':
800         Up_ord_au(username)
801     elif ch2 == 'n' or ch2 == 'N':
802         return
803     else:
804         print("Wrong Input")
805         return
806 else:
807     pass
808 cam.close()
809 return
810
811 # -----
812 '''This function will allow the signed in user to view all their details of every order placed since
813 registered with detail of order type (i.e, new or for replace or for return)'''
814
815 def View_au(username):
816     cam = mycam.connect(host='localhost', user='root', passwd='Rinshu@03', database='book_shop')
817     cursor = cam.cursor(buffered=True)
818     print("This is the list of your orders.: ")
819     cursor.execute(f"SELECT * FROM orders WHERE user_name = '{username}' ORDER BY ord_no DESC")
820     data = cursor.fetchall()
```

```
821 if data == None:
822     print("No orders in database.")
823 else:
824     print("                Latest Orders Sorted by Date:. ")
825     for row in data:
826         tp = row
827         print("    Order ID      : ", tp[0])
828         print("    Book Name     : ", capwords(tp[1]))
829         print("    Pieces        : ", tp[10])
830         print("    Customer Name  : ", capwords(tp[1]))
831         print("    Address       : ", tp[2])
832         print("    District      : ", tp[3])
833         print("    City          : ", tp[4])
834         print("    State/UT      : ", tp[5])
835         print("    Pincode       : ", tp[6])
836         print("    Country       : ", tp[7])
837         print("    E-mail Address : ", tp[8])
838         print("    Phone         : ", tp[9])
839         print("    Order Date    : ", tp[12])
840         print("    Order Type    : ", capwords(tp[14]))
841
842         if tp[14] not in ['return', 'replace']:
843             cursor.execute(f"SELECT DATE(order_dt) FROM orders WHERE DATEDIFF(NOW(), order_dt) <= 7 AND ord_no = {tp[0]}")
844             data2 = cursor.fetchone()
845             if not data2:
846                 cursor.execute(f"SELECT DATE(DATE_ADD(order_dt, INTERVAL 7 DAY)) FROM orders WHERE ord_no = {tp[0]}")
847                 data3 = cursor.fetchone()
848                 print(f"    Order Status   : Delivered on {data3[0]}")
849             else:
850                 print("    Order Status   : In transit")
851     print()
```

```
cam.close()  
return
```

```
# -----  
# |                                     |  
# # -----
```

End of Module

|