



**Faculty of Engineering & Technology Electrical &
Computer Engineering Department
Linux Laboratory -ENCS3130
Python project**

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→ The main menu:

```
Welcome to the E-commerce System
1. Admin Login
2. Shopper Login
3. Exit
Enter your choice:
```

→ Admin menu:

```
Enter your choice: 1

Admin Options:
a. Add Product
b. Add User
c. Display All Users
d. List of Shoppers
e. List of Products
f. Place an item on sale
g. Update User
h. Execute Order
i. Save Products to a file
j. Save Users to a file
z. Return to main menu
Enter your choice: i
It is saved successfully on the products.txt check it
```

→ Add new products:

```
Enter your choice: 1

Admin Options:
a. Add Product
b. Add User
c. Display All Users
d. List of Shoppers
e. List of Products
f. Place an item on sale
g. Update User
h. Execute Order
i. Save Products to a file
j. Save Users to a file
z. Return to main menu
Enter your choice:
```

```
Enter your choice: a
Enter Product ID (6-digit unique code): 445566
Enter Product Name (e.g., apple juice bottles): ElectWatch
Enter Product Category (e.g., Electronics, Apparel, etc.): Electronics
Enter Price ($): 150
Enter Inventory (number of items available for sale): 50
Enter Supplier Name: Supplier W
Is this product on offer? Enter 1 for Yes and 0 for No: 0
Enter offer price: 0
Product added successfully!
```

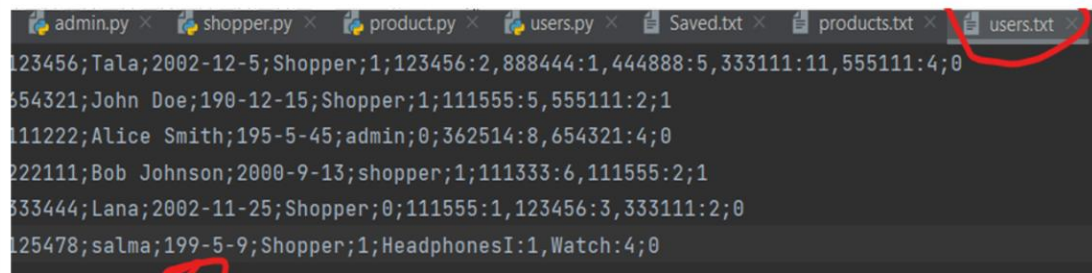
Result in file:

```
main.py x admin.py x shopper.py x product.py x users.py x Saved.txt x products.txt x users.i
8 111555;Book;Books;15.0;300;Supplier C;0;None;None
9 555111;Toy;Toys;10.0;498;Supplier D;1;None;None
10 444888;Chair;Furniture;75.0;18;Supplier E;1;None;None
11 445566;ElectWatch;Electronics;150;50;Supplier W;0;0.0;None
12 ↗
```

→ Add user (only by the admin):

```
Enter your choice: 0
Enter User ID (6-digit unique code): 125478
Enter User Name: salma
Enter Date of Birth (YYYY-MM-DD): 199-5-9
Enter Role (Admin or Shopper, enter 1 if it is admin and 2 if it is shopper): 2
Is the user active? Enter 1 for Yes and 0 for No: 1
Enter the items in the Basket(cartoy,glasses,etc)HeadphonesI,Watch
How many HeadphonesIs do you want to add? 1
How many Watchs do you want to add? 4
User added successfully!
```

In the file :



```
admin.py x shopper.py x product.py x users.py x Saved.txt x products.txt x users.txt x
123456;Tala;2002-12-5;Shopper;1;123456:2,888444:1,444888:5,333111:11,555111:4;0
654321;John Doe;190-12-15;Shopper;1;111555:5,555111:2;1
111222;Alice Smith;195-5-45;admin;0;362514:8,654321:4;0
222111;Bob Johnson;2000-9-13;shopper;1;111333:6,111555:2;1
333444;Lana;2002-11-25;Shopper;0;111555:1,123456:3,333111:2;0
125478;salma;199-5-9;Shopper;1;HeadphonesI:1,Watch:4;0
```

→ Display all users:

```
Enter your choice: 0
Loading user from line: 123456;Tala;2002-12-5;Shopper;1;123456:2,888444:1,444888:5,333111:11,555111:4;0
Loading user from line: 654321;John Doe;190-12-15;Shopper;1;111555:5,555111:2;1
Loading user from line: 111222;Alice Smith;195-5-45;admin;0;362514:8,654321:4;0
Loading user from line: 222111;Bob Johnson;2000-9-13;shopper;1;111333:6,111555:2;1
Loading user from line: 333444;Lana;2002-11-25;Shopper;0;111555:1,123456:3,333111:2;0
Loading user from line: 125478;salma;199-5-9;Shopper;1;HeadphonesI:1,Watch:4;0

All Users:
User ID: 123456
User_name: Tala
DOB: 2002-12-5
Role: Shopper
Active: 1
Basket: {'123456': 2, '888444': 1, '444888': 5, '333111': 11, '555111': 4}
Order: 0
-----
User ID: 654321
User_name: John Doe
DOB: 190-12-15
Role: Shopper
Active: 1
Basket: {'111555': 5, '555111': 2}
Order: 1
-----
User ID: 111222
User name: Alice Smith
```

```

DOB: 195-5-45
Role: admin
Active: 0
Basket: {'362514': 8, '654321': 4}
order: 0
-----
User ID: 222111
User_name: Bob Johnson
DOB: 2000-9-13
Role: shopper
Active: 1
Basket: {'111333': 6, '111555': 2}
order: 1
-----
User ID: 333444
User_name: Lana
DOB: 2002-11-25
Role: Shopper
Active: 0
Basket: {'111555': 1, '123456': 3, '333111': 2}
order: 0
-----
User ID: 125478
User_name: salma
DOB: 199-5-9
Role: Shopper
Active: 1
Basket: {'HeadphonesI': 1, 'Watch': 4}

```

→ List of **all** shoppers:

```

Choose criteria (All, Basket, Unprocessed): All

Shoppers:

Total Shoppers Loaded: 6
Checking user: 123456
User ID: 123456
user_name: Tala
DOB: 2002-12-5
Role: Shopper
Active: 1
Basket: {'123456': 2, '888444': 1, '444888': 5, '333111': 11, '555111': 4}
order: 0
-----
Checking user: 654321
User ID: 654321
user_name: John Doe
DOB: 190-12-15
Role: Shopper
Active: 1
Basket: {'111555': 5, '555111': 2}
order: 1
-----
Checking user: 111222
User ID: 111222
user_name: Alice Smith
DOB: 195-5-45

```

→ By **Basket**:

```
Choose criteria (All, Basket, Unprocessed): Basket

Shoppers:

Total Shoppers Loaded: 6
Checking user: 123456
User ID: 123456
user_name: Tala
DOB: 2002-12-5
Role: Shopper
Active: 1
Basket: {'123456': 2, '888444': 1, '444888': 5, '333111': 11, '555111': 4}
Order: 0
-----
Checking user: 654321
User ID: 654321
user_name: John Doe
DOB: 190-12-15
Role: Shopper
Active: 1
Basket: {'111555': 5, '555111': 2}
Order: 1
-----
Checking user: 111222
User ID: 111222
user_name: Alice Smith
DOB: 195-5-45
Order: 1
```

→ By **Unprocessed** (not ordering yet):

```
Choose criteria (All, Basket, Unprocessed): Unprocessed

Shoppers:

Total Shoppers Loaded: 6
Checking user: 123456
Checking user: 654321
User ID: 654321
User name: John Doe
DOB: 190-12-15
Role: Shopper
Active: 1
Basket: {'111555': 5, '555111': 2}
Order: 1
-----
Checking user: 111222
Checking user: 222111
User ID: 222111
User name: Bob Johnson
DOB: 2000-9-13
Role: shopper
Active: 1
Basket: {'111333': 6, '111555': 2}
Order: 1
-----
Checking user: 333444
Checking user: 125478
```

→ List of products by the admin:

Display by **Name**:

```
Enter your choice: e
Choose criteria (All, Offers, Category, Name): Name
Enter the product name: Widget

Products with Name Widget:
Product ID: 654321 | Category: Electronics
id: 654321
name: Widget
price: 50.0
inventory: 100
suppliers: Supplier X
on_offer: 1
offer_price: None
valied_date: None
-----
```


→ List by **Category**:

```
Enter your choice: e
Choose criteria (All, Offers, Category, Name): Category
Enter the category name: Electronics

Products in Category Electronics:
Product ID: 654321 | Category: Electronics
id: 654321
name: Widget
price: 50.0
inventory: 100
suppliers: Supplier X
on_offer: 1
offer_price: None
valied_date: None
-----
Product ID: 888444 | Category: Electronics
id: 888444
name: HeadphonesI
price: 40.0
inventory: 75
suppliers: Supplier F
on_offer: 0
offer_price: None
valied_date: None
-----
Product ID: 445566 | Category: Electronics
id: 445566
name: ElectWatch
price: 150.0
```

By Offers:

```
Enter your choice: e
Choose criteria (All, Offers, Category, Name): Offers

Products on Offer:
Product ID: 123456 | Category: Apparel
id: 123456
name: Water
price: 20.0
inventory: 50
suppliers: Supplier W
on_offer: 1
offer_price: 5.0
valied_date: None
-----
Product ID: 654321 | Category: Electronics
id: 654321
name: Widget
price: 50.0
inventory: 100
suppliers: Supplier X
on_offer: 1
offer_price: None
valied_date: None
-----
Product ID: 362514 | Category: Tools
id: 362514
name: Tool
price: 25.0
inventory: 200
```

→ Place item on sale:

```
Enter your choice: f
Enter the Product ID of the item you want to put on sale: 654321
Enter the discounted price for the product: 20
Enter the validity date for the offer (YYYY-MM-DD): 2023-11-9
Product sale details updated successfully!
```

```
Product ID: 654321 | Category: Electronics
id: 654321
name: Widget
price: 50.0
inventory: 100
suppliers: Supplier X
on_offer: 1
offer_price: 20.0
valid_date: 2023-11-9
```

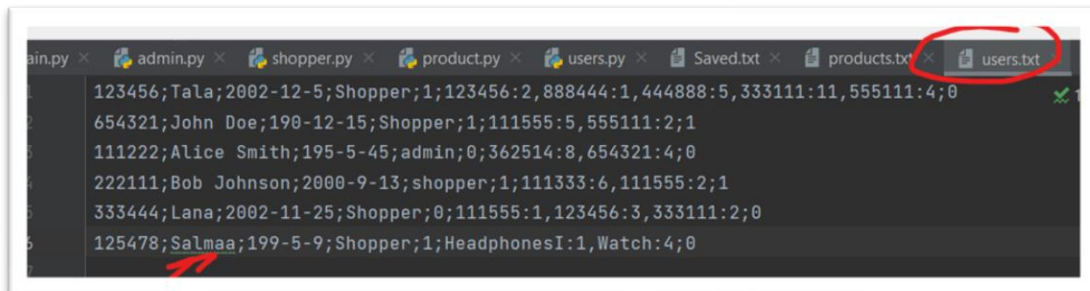
→ Update the user information:

```
Enter your choice: g
Loading user from line: 123456;Tala;2002-12-5;Shopper;1;123456;2,888444:1,444888:5,333111:11,55
Loading user from line: 654321;John Doe;190-12-15;Shopper;1;111555:5,555111:2;1
Loading user from line: 111222;Alice Smith;195-5-45;admin;0;362514:8,654321:4;0
Loading user from line: 222111;Bob Johnson;2000-9-13;shopper;1;111333:6,111555:2;1
Loading user from line: 333444;Lana;2002-11-25;Shopper;0;111555:1,123456:3,333111:2;0
Loading user from line: 125478;salma;199-5-9;Shopper;1;HeadphonesI:1,Watch:4;0
Enter the User ID (6-digit unique code) of the user you want to update: 125478

User Details:
user_name: salma
DOB: 199-5-9
Role: Shopper
Active: 1
Basket: {'HeadphonesI': 1, 'Watch': 4}
order: 0

Which field do you want to update? Choose from ['user_name', 'DOB', 'Role', 'Active']: user_name
Enter new value for user_name: Salmaa
user_name updated successfully!
```

Result in users file:



```
1 123456;Tala;2002-12-5;Shopper;1;123456:2,888444:1,444888:5,333111:11,555111:4;0
2 654321;John Doe;190-12-15;Shopper;1;111555:5,555111:2;1
3 111222;Alice Smith;195-5-45;admin;0;362514:8,654321:4;0
4 222111;Bob Johnson;2000-9-13;shopper;1;111333:6,111555:2;1
5 333444;Lana;2002-11-25;Shopper;0;111555:1,123456:3,333111:2;0
6 125478;Salmaa;199-5-9;Shopper;1;HeadphonesI:1,Watch:4;0
```

→ Execute order:

```
Enter your choice: h
Enter the shopper ID: 123456
Order for shopper 123456 executed successfully!
```

→ Change to Shoppers mode:

```
Welcome to the E-commerce System
1. Admin Login
2. Shopper Login
3. Exit
Enter your choice: 2
Enter your user ID to login: 123456

Shopper Options:
a. View Products
b. Add Product to Basket
c. Display the Basket
d. Update the Basket
e. Place Order
z. Return to main menu
Enter your choice:
```

→ View all products:

```
Enter your choice: a
Number of lines in products.txt: 11
Reading line: 123456;Water;Apparel;20.0;50;Supplier W;1;5.0;None
Reading line: 111333;Shirt;Apparel;30.0;150;Supplier A;0;None;None
Reading line: 654321;Widget;Electronics;50.0;100;Supplier X;1;None;None
Reading line: 888444;HeadphonesI;Electronics;40.0;75;Supplier F;0;None;None
Reading line: 145236;Gadget;Gadgets;120.0;50;Supplier Y;0;None;None
Reading line: 362514;Tool;Tools;25.0;200;Supplier Z;1;None;None
Reading line: 333111;Watch;Accessories;80.0;76;Supplier B;1;None;None
Reading line: 111555;Book;Books;15.0;300;Supplier C;0;None;None
Reading line: 555111;Toy;Toys;10.0;498;Supplier D;1;None;None
Reading line: 444888;Chair;Furniture;75.0;18;Supplier E;1;None;None
Reading line: 445566;ElectWatch;Electronics;150;50;Supplier W;0;0.0;None
```

→ Display the shoppers basket:

```
Your Basket:
-----
Product Name      Price      Quantity    Total
-----
DEBUG: Product data for ID 123456: {'id': '123456', 'name': 'Water', 'price': 20.0, 'inventory': 50}
Water             $20.00      2           $40.00
DEBUG: Product data for ID 888444: {'id': '888444', 'name': 'HeadphonesI', 'price': 40.0, 'inventory': 75}
HeadphonesI       $40.00      1           $40.00
DEBUG: Product data for ID 444888: {'id': '444888', 'name': 'Chair', 'price': 75.0, 'inventory': 18}
Chair             $75.00      5          $375.00
DEBUG: Product data for ID 333111: {'id': '333111', 'name': 'Watch', 'price': 80.0, 'inventory': 76}
Watch            $80.00     11          $880.00
DEBUG: Product data for ID 555111: {'id': '555111', 'name': 'Toy', 'price': 10.0, 'inventory': 498}
Toy              $10.00      4           $40.00
-----
Total Cost:                      $1375.00
```

→ Place order:

```
Your order total is $1375.00. Do you want to place the order? (yes/no): yes
Order placed successfully!
```

→ Back to the main menu (like logout):

```
Shopper Options:
a. View Products
b. Add Product to Basket
c. Display the Basket
d. Update the Basket
e. Place Order
z. Return to main menu
Enter your choice: z

Welcome to the E-commerce System
1. Admin Login
2. Shopper Login
3. Exit
Enter your choice:
```

→ Exiting:

```
Welcome to the E-commerce System
1. Admin Login
2. Shopper Login
3. Exit
Enter your choice: 3
Exiting the system. Goodbye!

Process finished with exit code 0
```


→ Save products in the file:

```
Enter your choice: 1

Admin Options:
a. Add Product
b. Add User
c. Display All Users
d. List of Shoppers
e. List of Products
f. Place an item on sale
g. Update User
h. Execute Order
i. Save Products to a file
j. Save Users to a file
z. Return to main menu
Enter your choice: i
It is saved successfully on the products.txt check it
```

Results in file:

```
in.py x admin.py x shopper.py x users.py x product.py x products.txt x users.txt x
1 123456;Water;Apparel;20.0;50;Supplier W;1;5.0;None
2 111333;Shirt;Apparel;30.0;150;Supplier A;0;None;None
3 654321;Widget;Electronics;50.0;100;Supplier X;1;20.0;2023-11-9
4 888444;HeadphonesI;Electronics;40.0;75;Supplier F;0;None;None
5 445566;ElectWatch;Electronics;150.0;50;Supplier W;0;0.0;None
6 145236;Gadget;Gadgets;120.0;50;Supplier Y;0;None;None
7 362514;Tool;Tools;25.0;200;Supplier Z;1;None;None
8 333111;Watch;Accessories;80.0;76;Supplier B;1;None;None
9 111555;Book;Books;15.0;300;Supplier C;0;None;None
10 555111;Toy;Toys;10.0;498;Supplier D;1;None;None
11 444888;Chair;Furniture;75.0;18;Supplier E;1;None;None
```

→ Save users in file:

```
Enter your choice: j
It is saved successfully on the users.txt check it
```

Result in the file:

```
admin.py × shopper.py × users.py × product.py × products.txt × users.txt ×
```

```
1 123456;Tala;2002-12-5;Shopper;1;123456:2,888444:1,444888:5,333111:11,55511 1  
2 654321;John Doe;190-12-15;Shopper;1;111555:5,555111:2;1  
3 111222;Alice Smith;195-5-45;admin;0;362514:8,654321:4;0  
4 222111;Bob Johnson;2000-9-13;shopper;1;111333:6,111555:2;1  
5 333444;Lana;2002-11-25;Shopper;0;111555:1,123456:3,333111:2;0  
6 125478;Salmaa;199-5-9;Shopper;1;HeadphonesI:1,Watch:4;0  
7
```

→ Shoppers to the basket:

```
Enter your choice: 0
Number of lines in products.txt: 11
Reading line: 123456;Water;Apparel;20.0;50;Supplier W;1;5.0;None
Reading line: 111333;Shirt;Apparel;30.0;150;Supplier A;0;None;None
Reading line: 654321;Widget;Electronics;50.0;100;Supplier X;1;20.0;2023-11-9
Reading line: 888444;HeadphonesI;Electronics;40.0;75;Supplier F;0;None;None
Reading line: 445566;ElectWatch;Electronics;150.0;50;Supplier W;0;0.0;None
Reading line: 145236;Gadget;Gadgets;120.0;50;Supplier Y;0;None;None
Reading line: 362514;Tool;Tools;25.0;200;Supplier Z;1;None;None
Reading line: 333111;Watch;Accessories;80.0;76;Supplier B;1;None;None
Reading line: 111555;Book;Books;15.0;300;Supplier C;0;None;None
Reading line: 555111;Toy;Toys;10.0;498;Supplier D;1;None;None
Reading line: 444888;Chair;Furniture;75.0;18;Supplier E;1;None;None
Loaded products: {<Categ.Apparel: 'Apparel': {'123456': {'id': '123456', 'name
Enter the Product ID of the item you want to add to the basket: 888444
How many units of HeadphonesI would you like to add to the basket? 1
1 units of HeadphonesI have been added to your basket!
```

Results in file:

```

1 123456;Tala;2002-12-5;Shopper;1;123456:2,888444:1,444888:5,333111:11,55511  ✖ 1
2 654321;John Doe;190-12-15;Shopper;1;111555:5,555111:2;1
3 111222;Alice Smith;195-5-45;admin;0;362514:8,654321:4,444888:2;0
4 222111;Bob Johnson;2000-9-13;shopper;1;111333:6,111555:2;1
5 333444;Lana;2002-11-25;Shopper;0;111555:1,123456:3,333111:2,888444:2;0
6 125478;Salmaa;199-5-9;Shopper;1;HeadphonesI:1,Watch:4;0
7

```