

# User Manual

SHARK Second-hand Trading Platform

Group 4

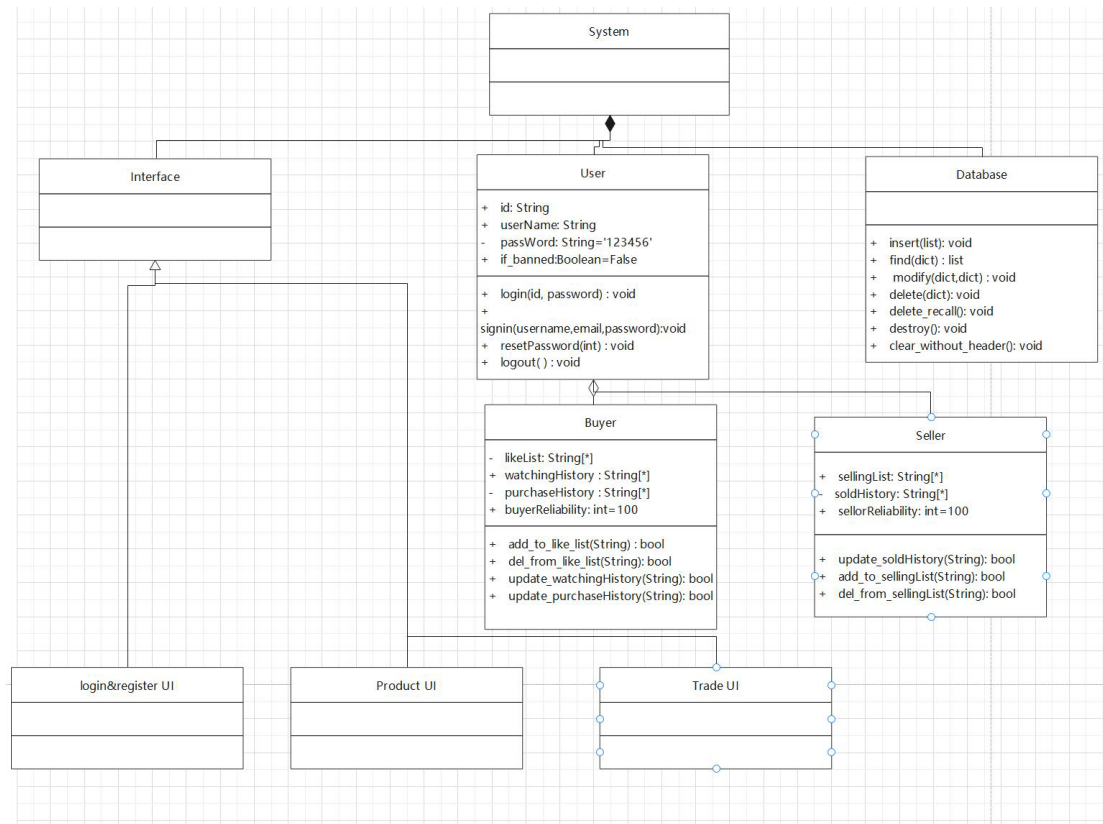
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## System Architecture

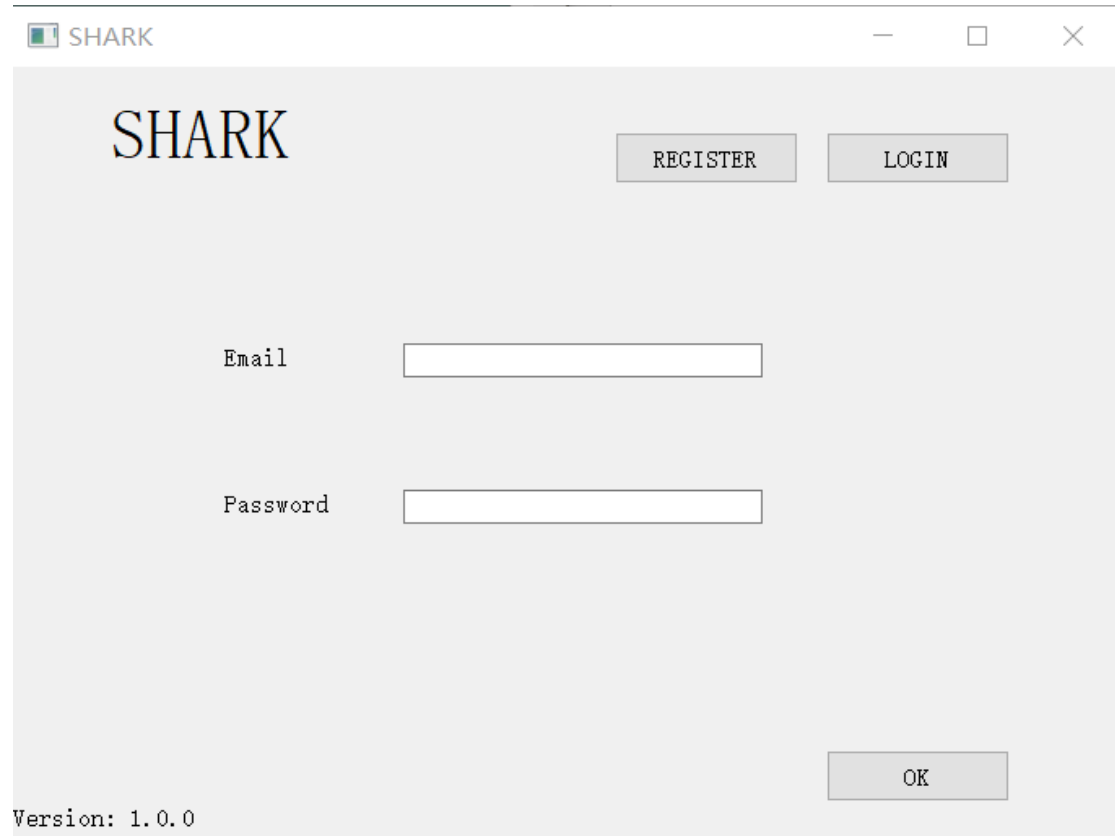
The system architecture is shown below:



# Player Manual

## Login menu

The user will be first shown with a Login main menu (Figure 1):



The screenshot shows a window titled "SHARK" with standard window controls (minimize, maximize, close). The interface has a light gray background. At the top left is the "SHARK" logo. To its right are two buttons: "REGISTER" and "LOGIN". Below these are two input fields: "Email" and "Password", each with a corresponding text label to its left. At the bottom right is an "OK" button. In the bottom left corner, the text "Version: 1.0.0" is displayed.

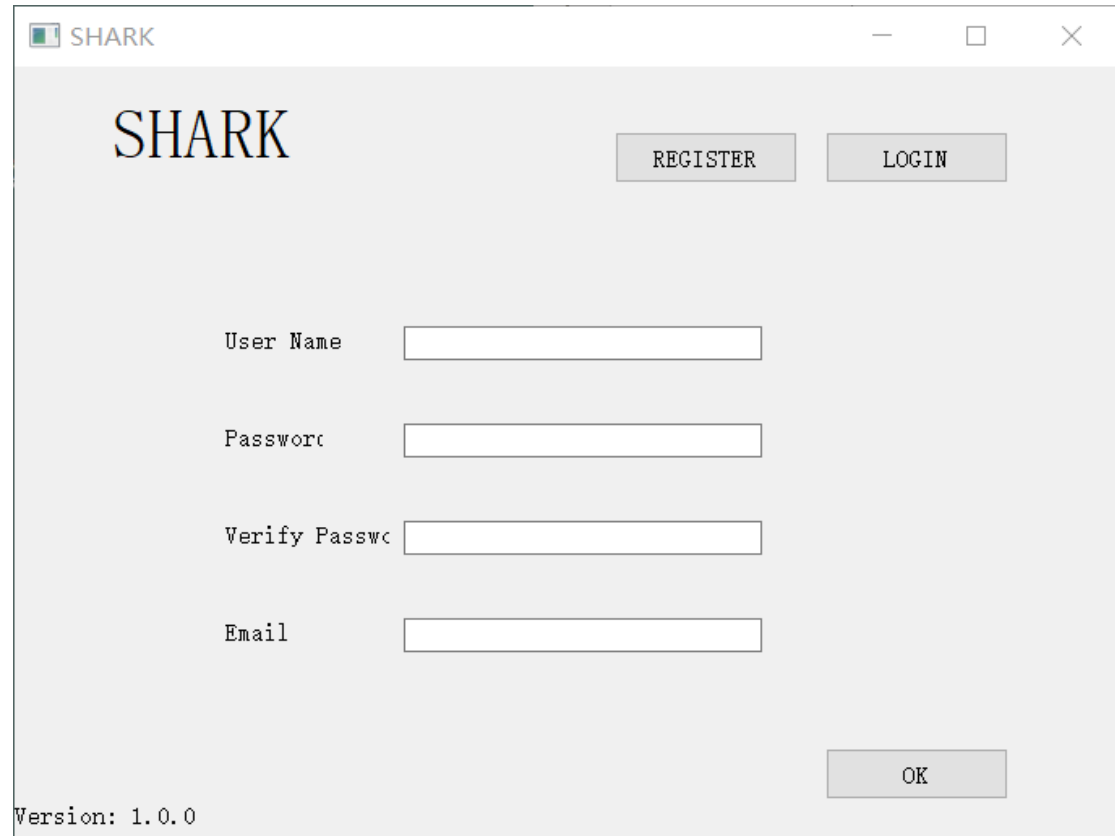
Login Menu Components:

1. "Email". User need to put his/her Email address of his/her account.
2. "Password". User need to put his/her password of his/her account.
3. "OK". Click on this button will check if the Email exists. If exists, we will check if the password is correct for the Email. If it is, the user will enter the Main Menu. Otherwise, warning will be raised.
4. "REGISTER". Click on this button will enter the Register Menu.

5. "LOGIN". Click on this button will enter the Login Menu.

### Register menu

The user will be shown with a Register menu (Figure 2):



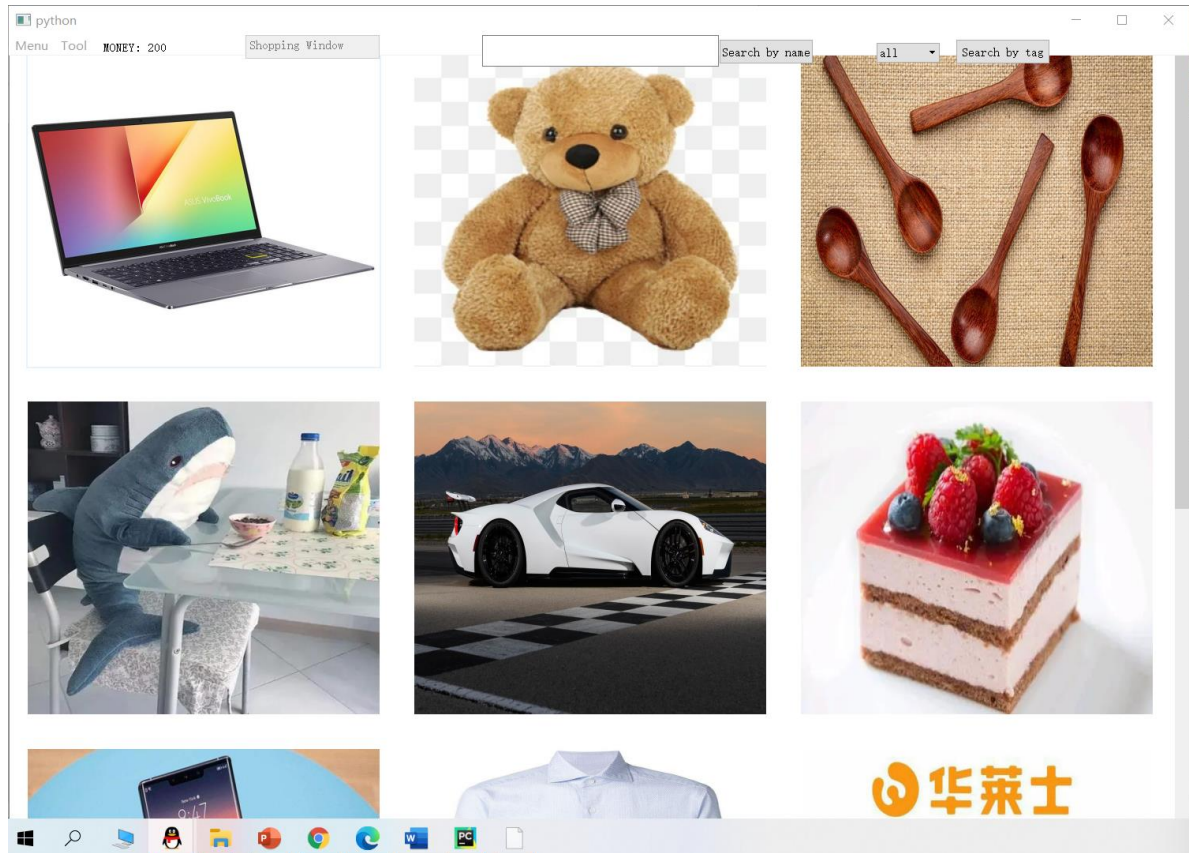
The screenshot shows a window titled "SHARK" with a standard Windows-style title bar (minimize, maximize, close buttons). The main content area has a light gray background. At the top left, the word "SHARK" is displayed in a large, blue, serif font. To the right of the logo, there are two buttons: "REGISTER" and "LOGIN", both in a light gray box with black text. Below these buttons, there are four input fields, each preceded by a label: "User Name", "Password", "Verify Password", and "Email". Each label is in a black, monospace-style font, and each input field is a white rectangle with a thin black border. At the bottom right of the form area, there is an "OK" button in a light gray box with black text. In the bottom left corner of the window, the text "Version: 1.0.0" is displayed in a small, black, monospace-style font.

Register Menu Components:

1. "User Name". User need to set his/her User Name of his/her account. User Name can be same with others.
2. "Password". User need to set his/her Password of his/her account. User Name can be same with others. The length of the password must be more than 8.
3. "Verify Password". The two Password must be same to ensure no mistakes happens.
4. "Email". User need to set his/her Email of his/her account. User Name can not be same with others.

## Main menu

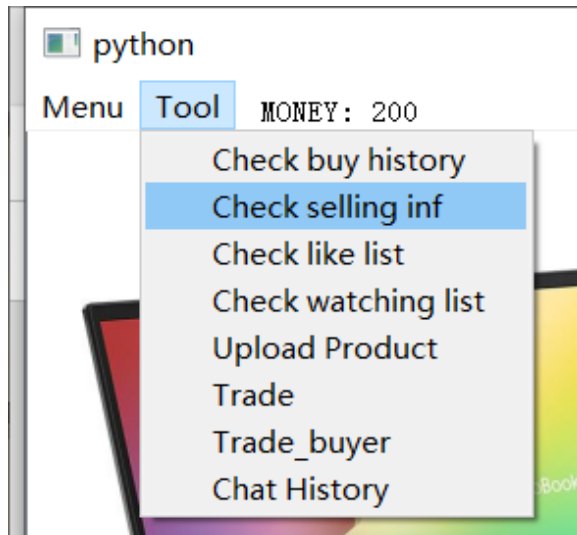
The user will be shown with a Main menu (Figure 3):



Main Menu Components:



1. "Menu". ①User can Log out in Menu Bar ②User can Invest Money in Menu Bar



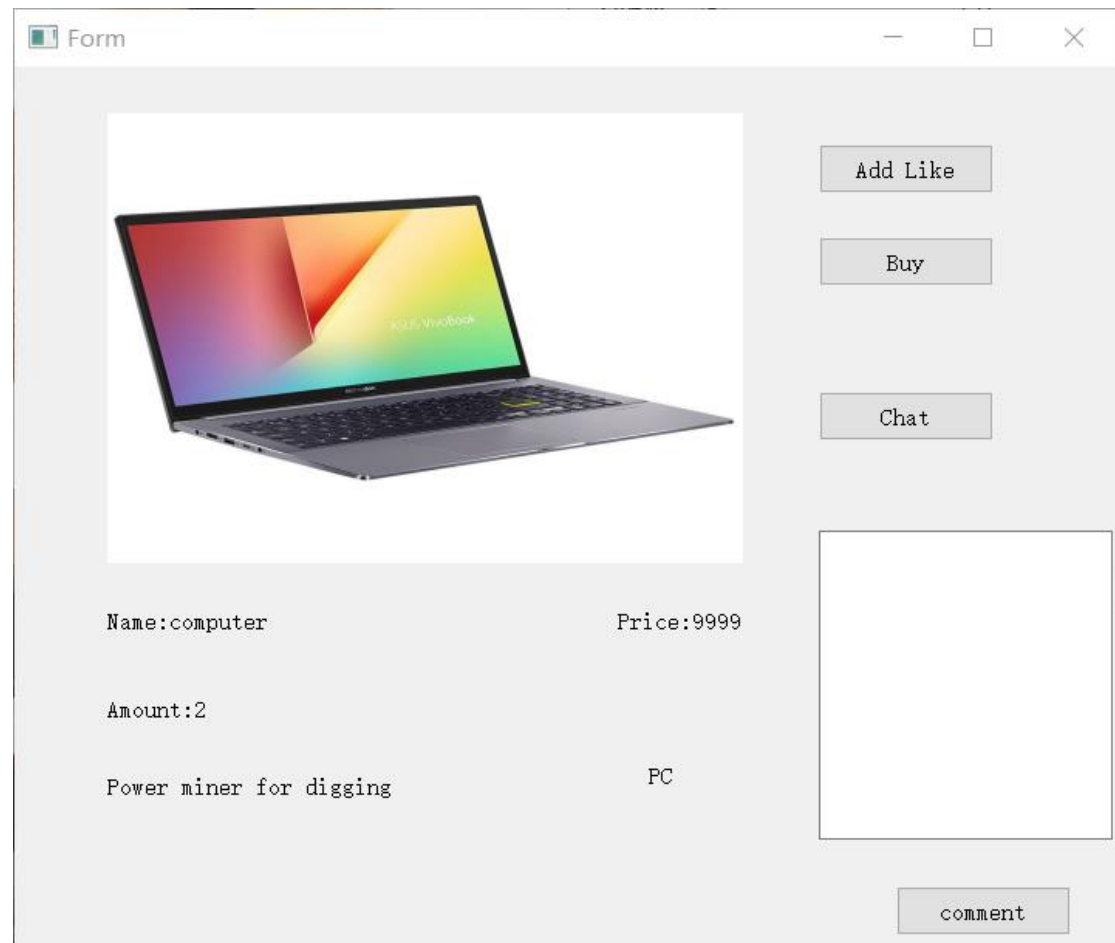
2. "Tool".
  - ① "Check buy history". Click on this button, the main window will show all the products that the user once bought.
  - ② "Check selling inf". Click on this button, the main window will show all the products that the user is selling.
  - ③ "Check like list". Click on this button, the main window will show all the products that the user liked.
  - ④ "Check watching list". Click on this button, the main window will show all the products that the user watched.
  - ⑤ "Upload Product". Click on this button, a window for uploading products will appear.
  - ⑥ "Trade". Click on this button, a window which shows all the trades that the user acts as a Seller.
  - ⑦ "Trade\_buyer". Click on this button, a window which shows all the trades that the user acts as a Buyer.
  - ⑧ "Chat History". Click on this button, a window which shows all the Chat that the user had with other users.
3. "Money". This part shows the money that the user has at the moment. It will be updated once five seconds.

4. "Shopping Window". This TextEdit shows the function the user is using now. It cannot be changed directly.
5. "Search by name". Fill the search bar on left side and click on this button. The main window will show all the products that has the search text in its name. It will show all the products if the search bar is empty.
6. "Search by tag". Set the tag bar on left side and click on this button. The main window will show all the products that has the search text in its name.
7. "Product". For each Product, click on the product picture will open a product window.




## Product Window

The user will be shown with a Product Window (Figure 4):



Form



Add Like

Buy

Chat

Name:computer Price:9999

Amount:2

Power miner for digging PC

comment

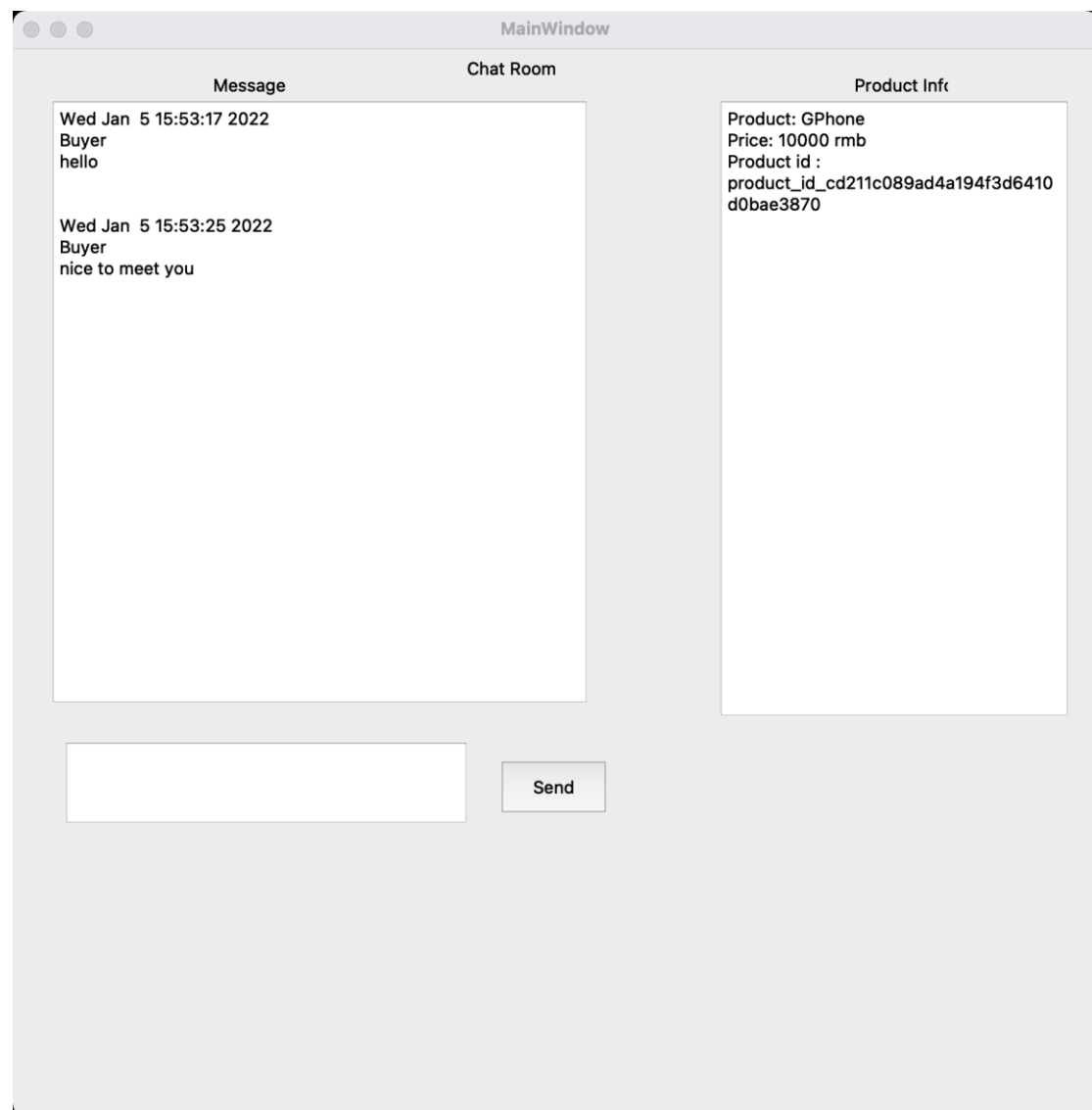
Product Window Components:

1. "Name". Shows the name of the Product
2. "Amount". Shows the amount of the Product. The product will not be shown in Main Window if the amount is 0.
3. "Price". Shows the price of the Product
4. "Tag". Shows the tag of the Product
5. "Description". Shows the details of the Product
6. "Add like". Click the button and the product will be added to the Like List.

7. "Buy". Click the button, there will be another window to confirm the purchase. After the confirm, system will check if the user's money is enough. If is, the trade will be set up.
8. "Chat". Click the button, it will open a Chat Room Window for chat,
9. "Comment". Click the button and it will open a text window for the user to fill the comments his/her wants. And the comment will be shown in the TextEdit above the button. Some words are abandoned to prevent online violent.

## Chat Room

The user will be shown with a Chat Room (Figure 5):

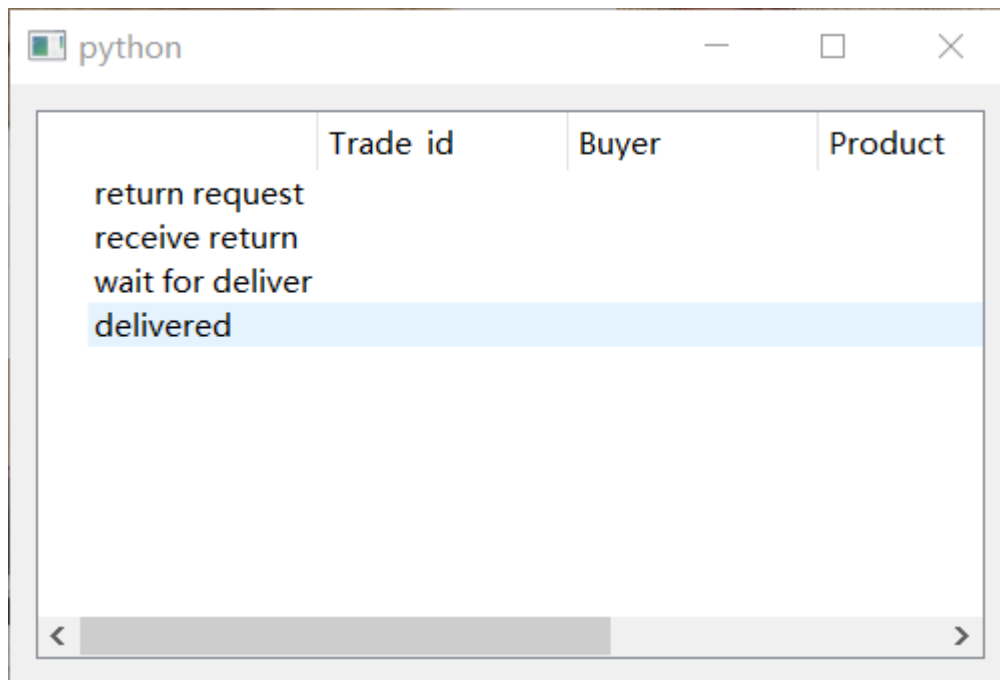


Chat Room Components:

1. "Message" Window. It shows all the messages that buyer or sellers send with the send time.
2. "Product Inf" Window. It shows all the basic information of the products.
3. "Send". Click the button and it will send the message typed in the text bar on the left side.

## Trade Window

The user will be shown with a Trade Window (Figure 6):



The screenshot shows a window titled 'python' with a table containing four columns: 'Trade id', 'Buyer', and 'Product'. The first column is currently empty. The second column contains a list of trade status options: 'return request', 'receive return', 'wait for deliver', and 'delivered'. The 'delivered' option is highlighted in blue. A horizontal scrollbar is visible at the bottom of the table.

	Trade id	Buyer	Product
return request			
receive return			
wait for deliver			
delivered			

Trade Window Components:

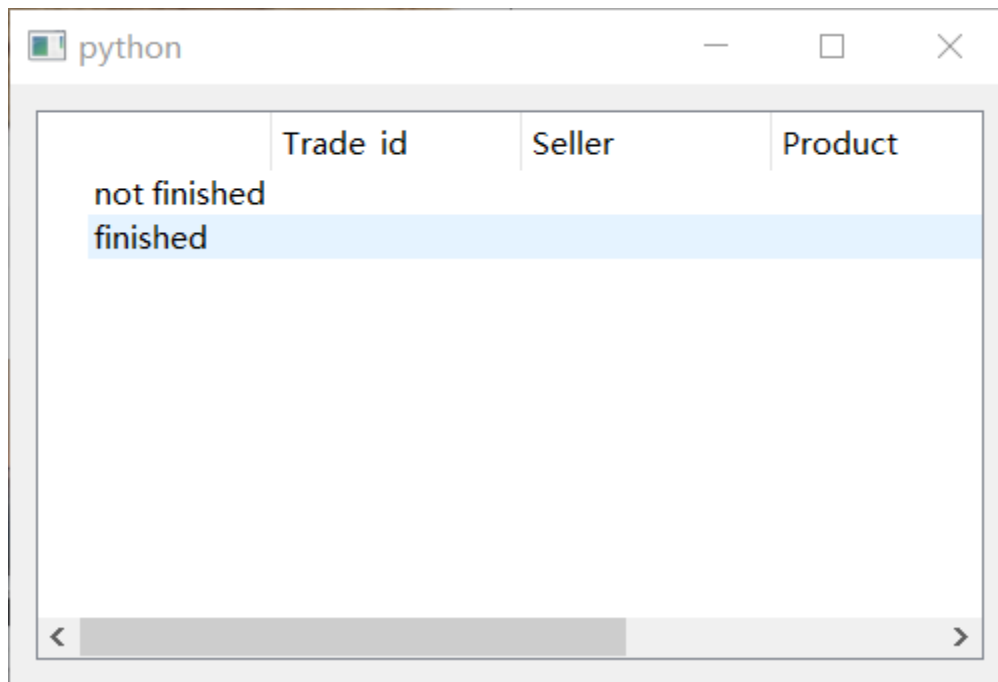
1. “return request”. Click the bar and the user can see all the return request with its Trade id, Buyer id, Product id and the status of the trade. The user can then click the specific bar to open the confirm window. The user can agree or disagree the return request (7 days after the purchase).
2. “receive return”. Click the bar and the user can see all the returned products that waited to be receive with its Trade id, Buyer id, Product id and the status of the trade. The user can then click the specific bar to open the confirm window. The user can receive the product or close the window.
3. “wait for deliver”. Click the bar and the user can see all the returned products that waited to be send with its Trade id, Buyer

id, Product id and the status of the trade. The user can then click the specific bar to open the confirm window. The user can confirm sending the product or close the window.

4. “delivered”. Click the bar and the user can see all the returned products that has been delivered with its Trade id, Buyer id, Product id.

## Trade\_buyer Window

The user will be shown with a Trade\_buyer Window (Figure 7):

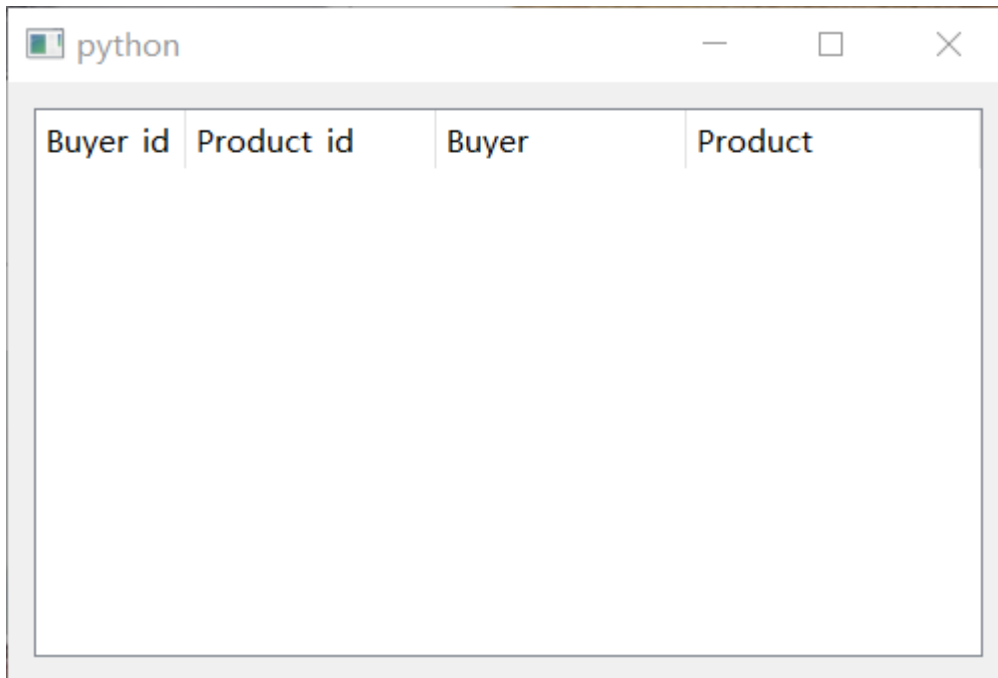


Trade\_buyer Window Components:

1. “not finished”. Click the bar and the user can see all the returned products that has not finished with its Trade id, Buyer id, Product id and the status of the trade. The user can then click the specific bar to open the confirm window. The user can confirm cancelling the product or close the window.
2. “finished”. Click the bar and the user can see all the returned products that has finished with its Trade id, Buyer id, Product id and the status of the trade. The user can then click the specific bar to open the confirm window. The user can confirm returning the product or close the window.

## Chat History Window

The user will be shown with a Chat History Window (Figure 7):



The image shows a window titled 'python' with standard Windows window controls (minimize, maximize, close). Inside the window is a table with four columns: 'Buyer id', 'Product id', 'Buyer', and 'Product'. The table is currently empty, showing only the header row.

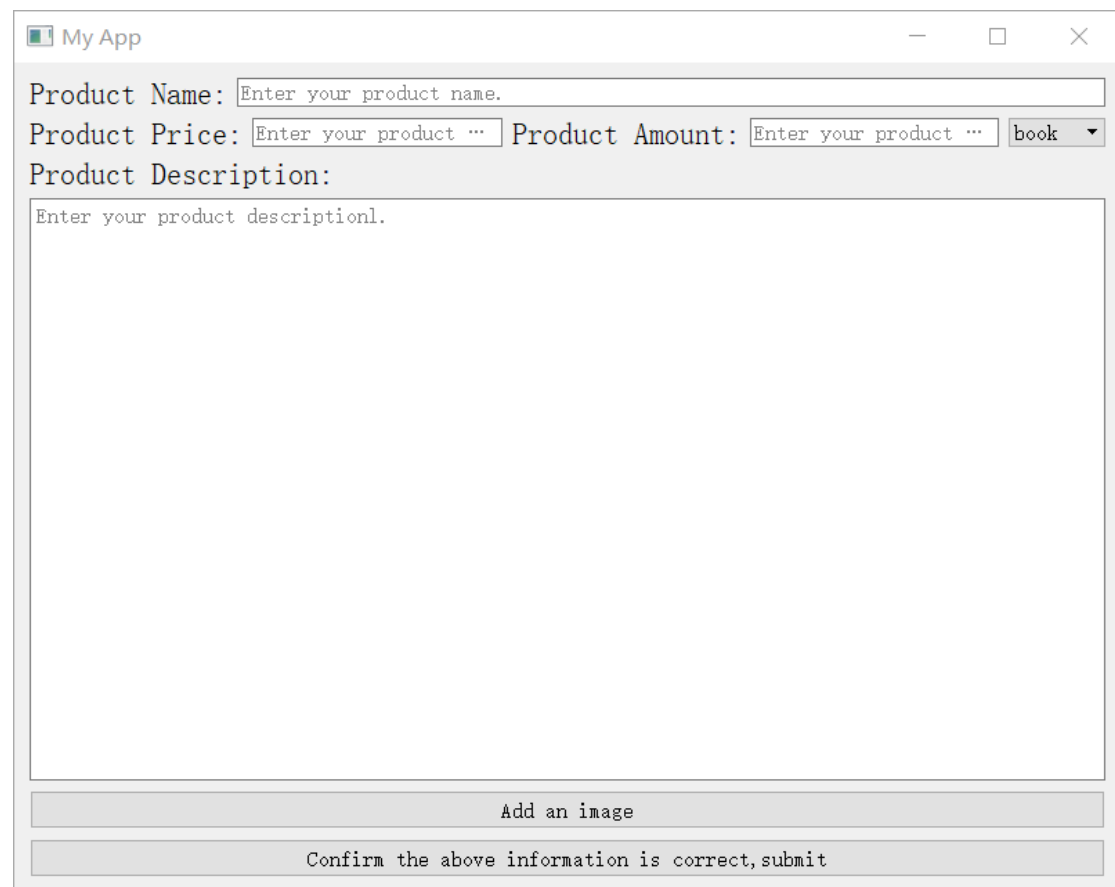
Buyer id	Product id	Buyer	Product
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Chat History Components:

1. The user can see all the Chat History with its Trade id, Buyer id, Product id. The user can then click the specific bar to open the Chat Room

## Upload Product Window

The user will be shown with an Upload Product Window (Figure 8):



The screenshot shows a window titled "My App" with standard window controls (minimize, maximize, close). The form contains the following elements:

- Product Name:** A text input field with the placeholder text "Enter your product name."
- Product Price:** A text input field with the placeholder text "Enter your product ..."
- Product Amount:** A text input field with the placeholder text "Enter your product ..."
- Tag:** A dropdown menu currently showing "book".
- Product Description:** A large text area with the placeholder text "Enter your product descriptionl."
- Buttons:** Two buttons at the bottom: "Add an image" and "Confirm the above information is correct, submit".

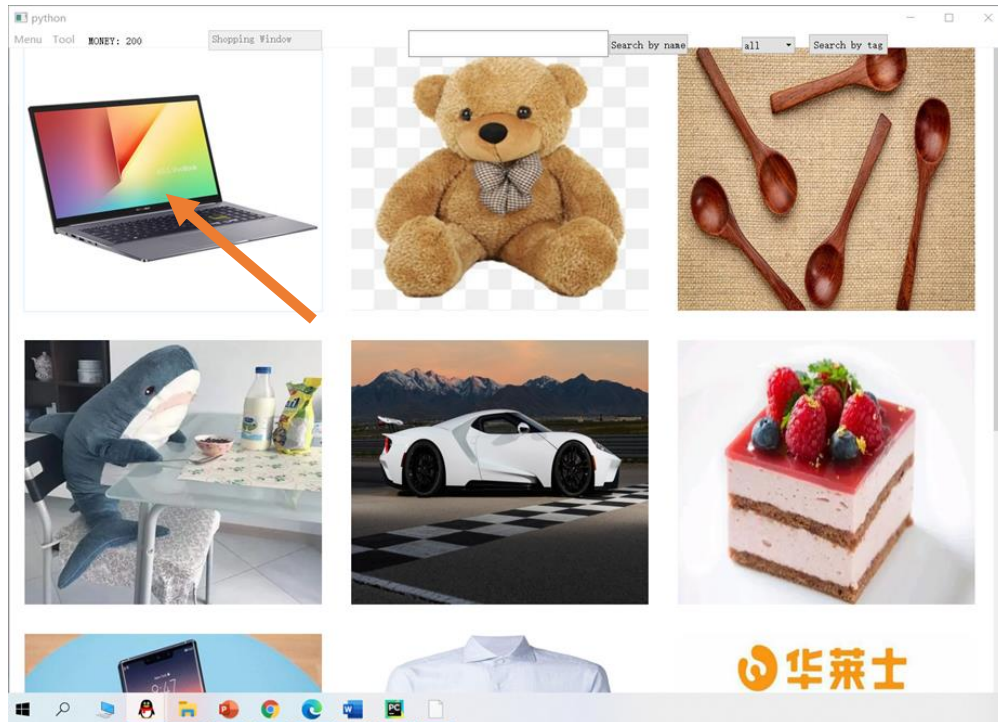
1. "Product Name". Fill in the TextEdit on the right side and system will save it as the name of the product.
2. "Product Price". Fill in the TextEdit on the right side and system will save it as the price of the product.
3. "Product Amount". Fill in the TextEdit on the right side and system will save it as the amount of the product.
4. "Tag". Click on it and it will show all the tags available. The user can choose one of them as the tag of the product.
5. "Product Description". Fill in the TextEdit on the below side and system will save it as the description of the product.



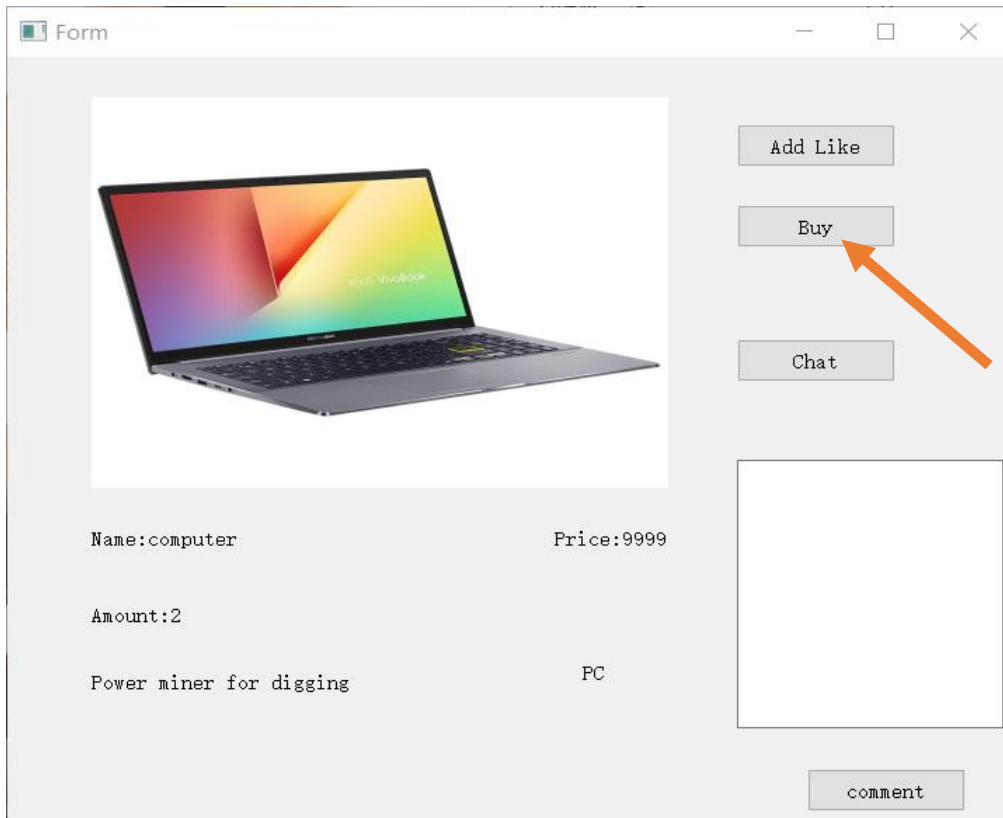
6. "Add an image". Click on the button and the system will open a window for uploading the image. After the upload, it will show the path and the name of the image.
7. "Confirm the above information is correct, submit". Click the button and the system will check if all the entry is valid. If all the entry is valid, the system will save all the information and create the product window.

## How to buy a product

### 1. Open a product Window

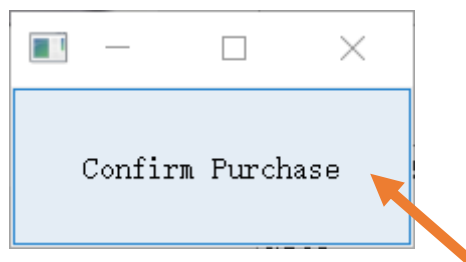


2. Click the BUY button



The screenshot shows a web form titled "Form" with a light gray background. On the left, there is a large image of a laptop. Below the image, the text "Name:computer" and "Price:9999" are displayed. Further down, "Amount:2" and "Power miner for digging" are shown. To the right of the laptop image, there are three buttons: "Add Like", "Buy", and "Chat". An orange arrow points to the "Buy" button. Below these buttons is a large white rectangular area, and at the bottom right, there is a "comment" button.

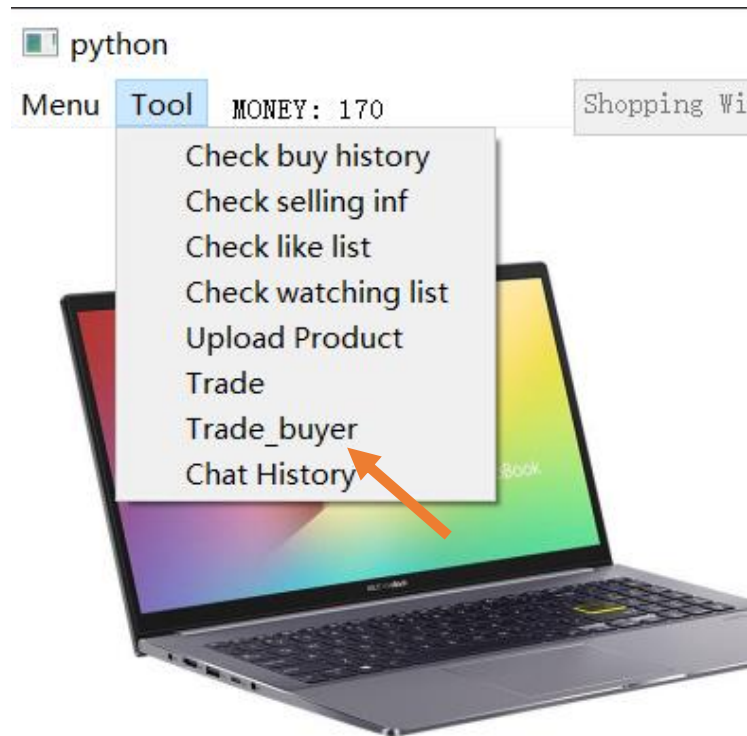
3. Click the Confirm button



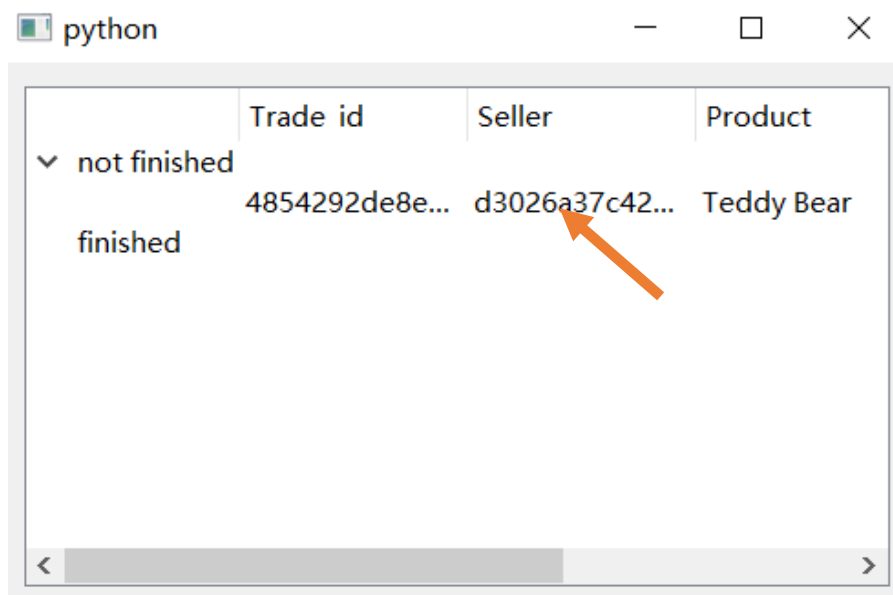
The screenshot shows a small dialog box with a light blue background and a blue border. The text "Confirm Purchase" is centered in the dialog. An orange arrow points to the right side of the dialog box.

## How to cancel the trade

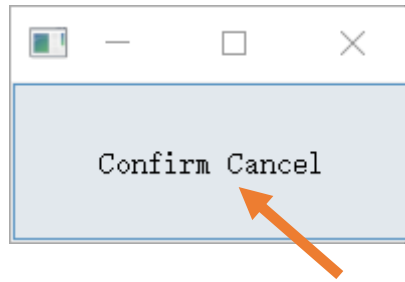
1. Click the Trade\_buyer



2. Click the Trade you want to cancel

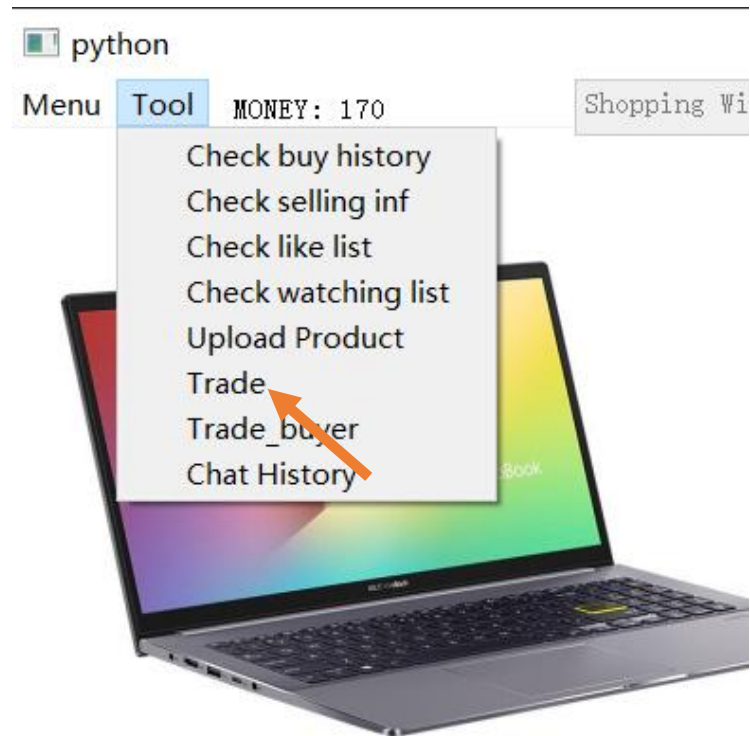


### 3. Confirm cancel

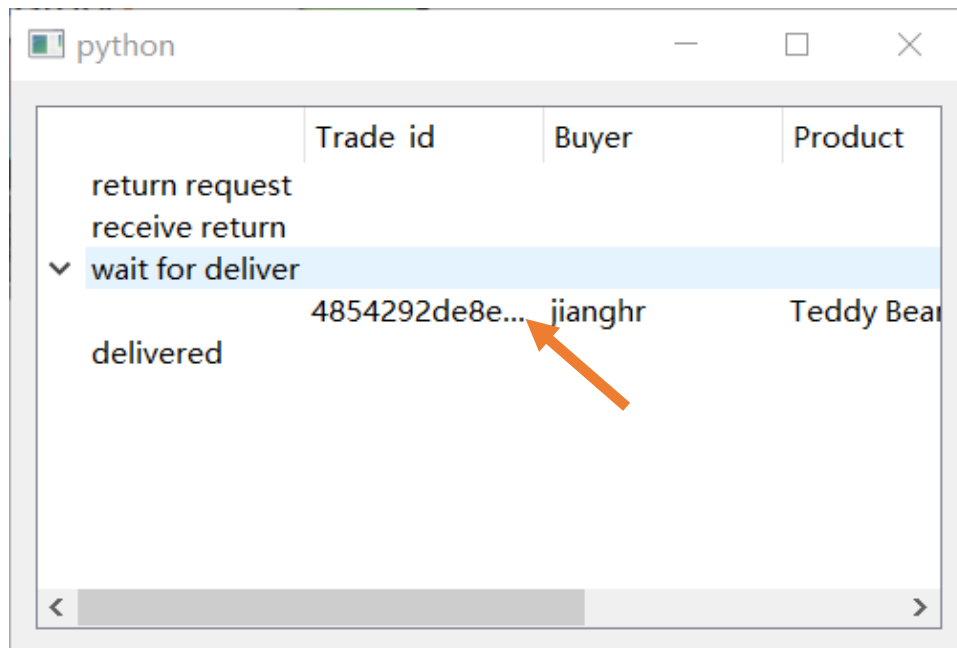


## How to send the product

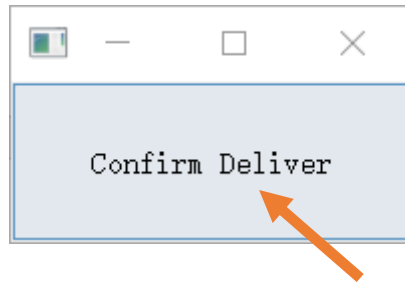
1. Click the Trade



2. Click the product you want to send

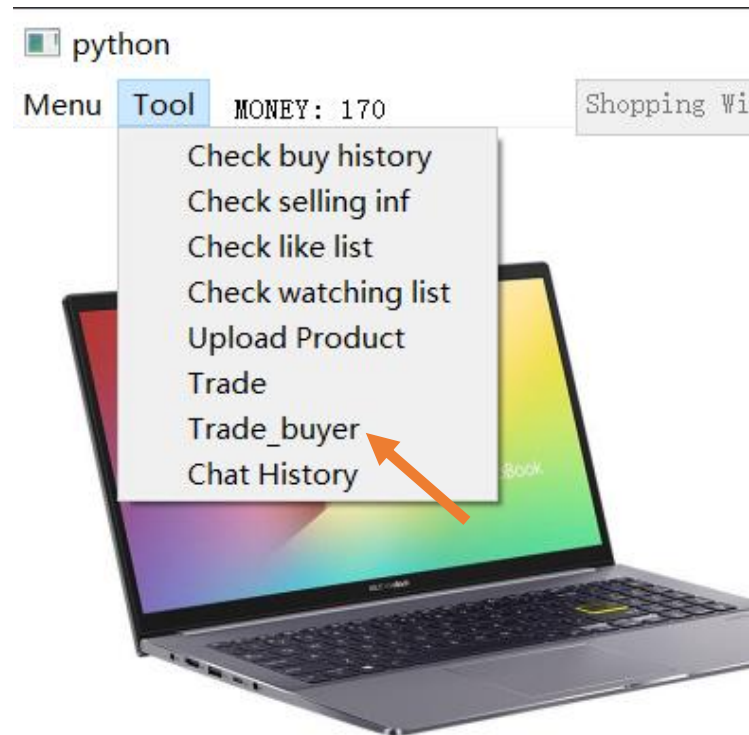


### 3. Confirm deliver

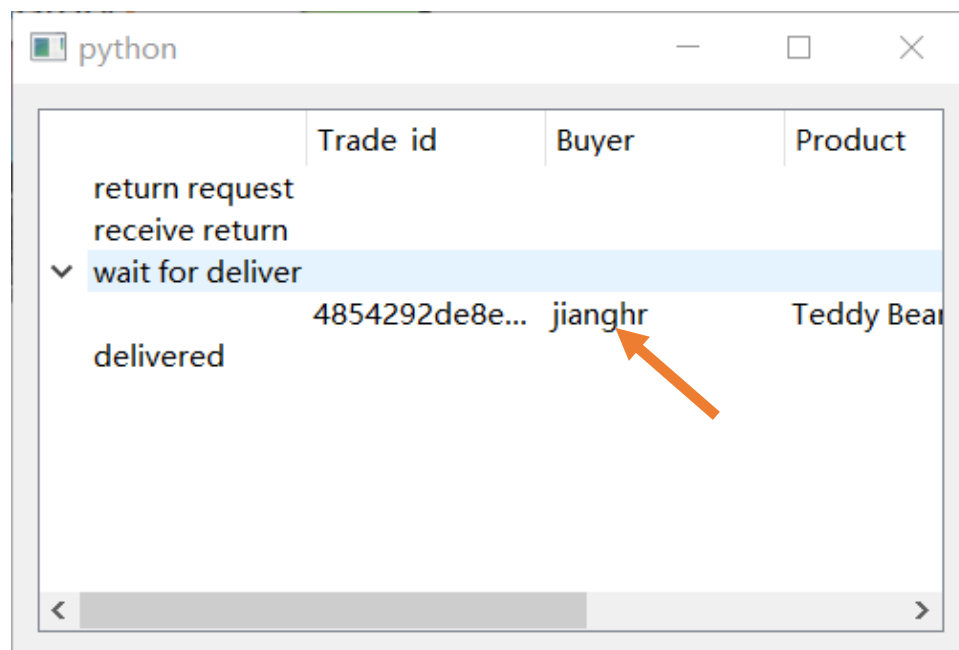


## How to receive the product

### 1. Trade\_buyer

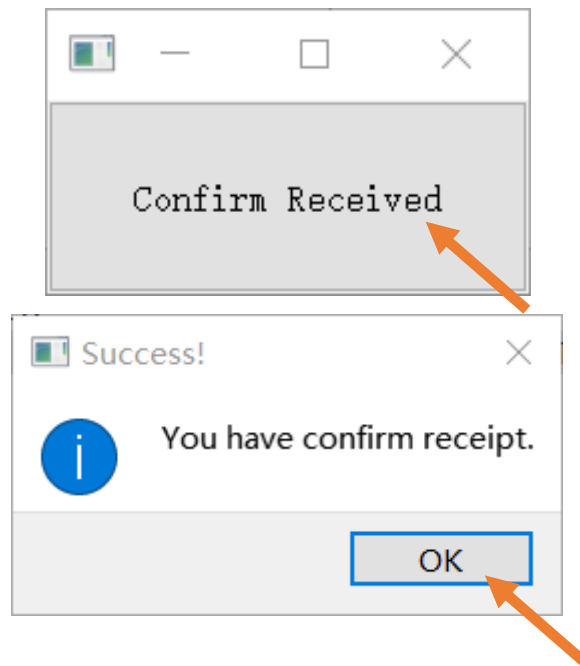


### 2. Click the product you want to send



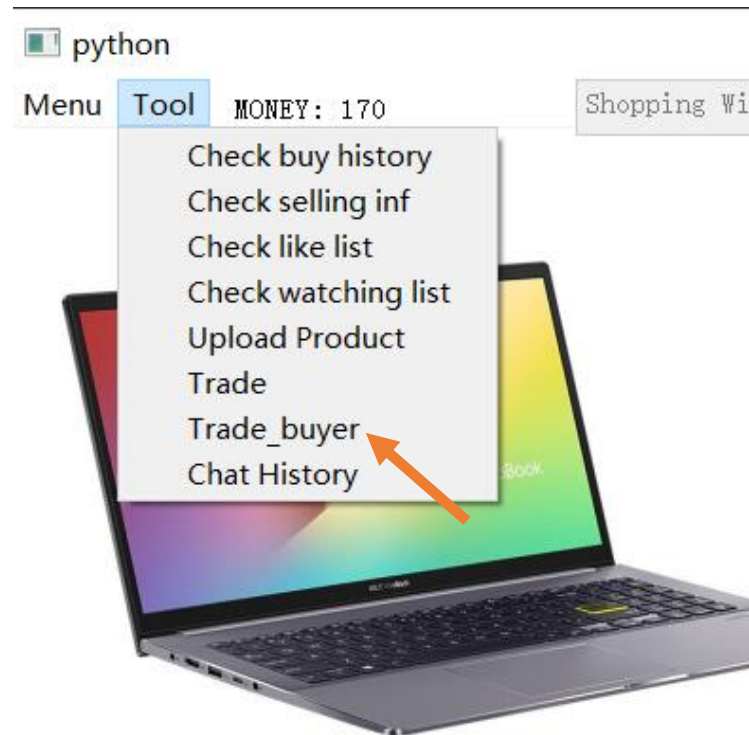


### 3. Confirm Receive

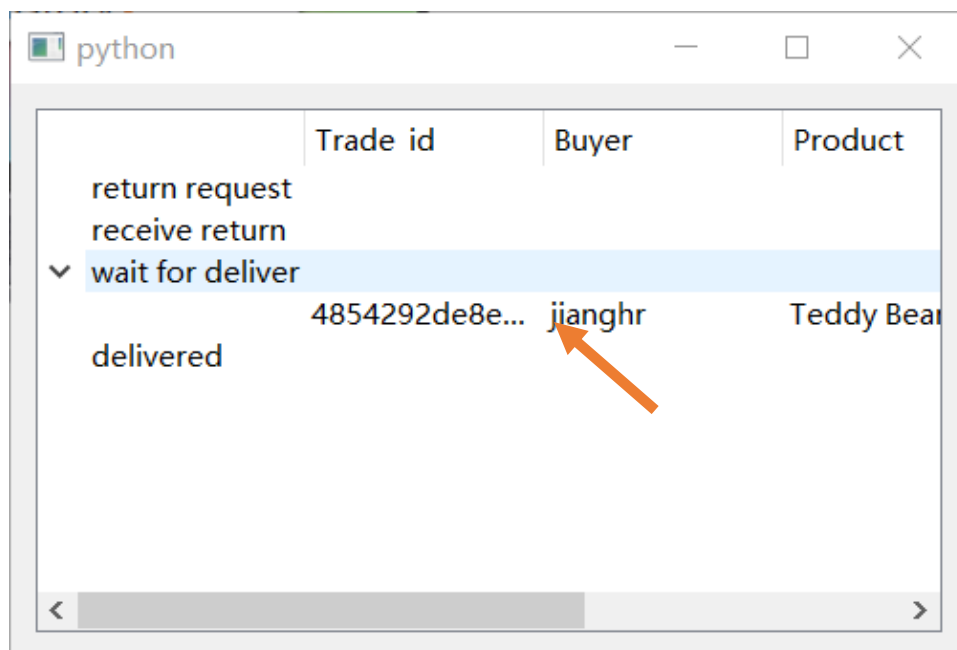


## How to return the product

### 1. Trade\_buyer



### 2. Click the product you want to return



### 3.

#### 4. Confirm return

