

cshare_api



REST API that contains all the HTTP requests needed to run the **CShare** mobile application. This includes authentication requests and requests to be able to collect, give, or cancel product orders between users.

Authentication

Requests necessary for the authentication of a user of the CShare application. This is a **token** based application, the server creates JWT with a secret and sends the JWT to the client. The client stores the JWT (usually in local storage) and includes JWT in the header with every request. The server would then validate the JWT with every request from the client and sends response. The requests in this section are:

- Login
- Logout
- Registrate
- Change Password
- Reset Password
- Delete account
- Get authenticated user details

POST Login



http://127.0.0.1:8000/api/v1//rest-auth/login/

Login a user via its email and password

Headers

Content-Type	application/x-www-form-urlencoded

Body formdata

```
emaildoe.john@hotmail.frpasswordP@ssword1*
```

```
Example Request
                                                                                    Login
curl --location --request POST '{{APIURLPHONE}}/rest-auth/login/' \
--header 'Content-Type: application/x-www-form-urlencoded' \setminus
--form 'email=doe.john@hotmail.fr' \
--form 'password=P@ssword1*'
Example Response
                                                                                   200 OK
Body
      Headers (9)
{
  "key": "e087b1a6733f92ebac93ef80cfa7f60622e9fcf4",
  "user": {
    "id": 39,
    "email": "doe.john@hotmail.fr",
    "first_name": "John",
    "last_name": "Doe",
    "room_number": "4F306",
    "campus": "Gif",
    "profile picture": "http://192.168.1.29:8000/media/user/android.png"
```

POST Registrate



http://127.0.0.1:8000/api/v1//rest-auth/registration/

Registrate a new user

Body formdata

```
email
                           doe.jane@hotmail.fr
                           Must be unique
                           P@ssword1*
password1
                           P@ssword1*
password2
                          Should match password1
room_number
                          4F306
campus
                          Gif
first_name
                          Jane
last_name
                          Doe
profile_picture
                           Optional (default picture is provided)
```

```
Example Request
                                                                                Registrate
curl --location --request POST '{{APIURLPHONE}}/rest-auth/registration/' \
--form 'email=doe.jane@hotmail.fr' \
--form 'password1=P@ssword1*' \
--form 'password2=P@ssword1*' \
--form 'room_number=4F306' \
--form 'campus=Gif' \
--form 'first_name=Jane' \
--form 'last_name=Doe'
Example Response
                                                                              201 Created
      Headers (10)
Body
{
  "key": "dea926fc5b643213b712d4f46859d16ce3803f07",
  "user": {
    "id": 40,
    "email": "doe.jane@hotmail.fr",
    "first_name": "Jane",
    "last_name": "Doe",
    "room_number": "4F306",
    "campus": "Gif",
    "profile picture": "/media/user/android.png"
```

POST Logout



http://127.0.0.1:8000/api/v1//rest-auth/logout/

Logout the authenticated user given its token

Headers

Authorization Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee

```
Example Request
                                                                                     Logout
curl --location --request POST '{APIURLPHONE}}/rest-auth/logout/' \setminus
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee'
Example Response
                                                                                     200 OK
Body
      Headers (9)
  "detail": "Successfully logged out."
```

Get authenticated user details GET



http://127.0.0.1:8000/api/v1//rest-auth/user/

Get the authenticated user details given its token

Headers

Authorization Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee

Example Request

Get user authenticated info

```
curl --location --request GET '{{APIURLPHONE}}/rest-auth/user/' \
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee'
```

Example Response 200 OK

```
Headers (8)
Body
{
  "id": 39,
  "email": "doe.john@hotmail.fr",
  "first_name": "John",
  "last_name": "Doe",
  "room_number": "4F306",
  "campus": "Gif",
  "profile_picture": "http://192.168.1.29:8000/media/user/android.png"
}
```

DELETE Delete User



{{APIURL}}/user/38/

Delete a user

The ID in the URL must match the authenticated user ID

Headers

}

Authorization

Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee

```
Example Request
                                                                               Delete User
curl --location --request DELETE '{{APIURLPHONE}}/user/38/' \
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee'
Example Response
                                                                                   200 OK
Body
      Headers (8)
{
  "id": 38,
  "email": "doe.john@hotmail.fr",
  "first_name": "John",
  "last_name": "Doe",
  "room_number": "4F306",
  "campus": "Gif",
```

"profile_picture": "http://192.168.1.29:8000/media/user/android.png"

POST Change password



http://127.0.0.1:8000/api/v1//rest-auth/password/change/

The authenticated user can change its password when authenticated.

old_password must correspond to the current password

```
new_password1 and new_password2 must match
```

Headers

Authorizatio	Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee	

Body formdata

```
old_passwordP@ssword1*new_password1P@ssword1*new_password2P@ssword1*
```

```
Example Request Change password
```

```
curl --location --request POST '{{APIURLPHONE}}/rest-auth/password/change/' \
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee' \
--form 'old_password=P@ssword1*' \
--form 'new_password1=P@ssword1*' \
--form 'new_password2=P@ssword1*'
```

Example Response 200 OK

```
Body Headers(9)
{
   "detail": "New password has been saved."
}
```

POST Reset password



http://127.0.0.1:8000/api/v1//rest-auth/password/reset/

Send an email to the email adress given in the request body to choose a new password

Body formdata

```
doe.john@hotmail.fr
email
```

```
Example Request
                                                                            Reset password
curl --location --request POST '{{APIURLPHONE}}/rest-auth/password/reset/' \
--form 'email=doe.john@hotmail.fr'
Example Response
                                                                                   200 OK
Body
      Headers (8)
{
  "detail": "Password reset e-mail has been sent."
```

Users

Requests related to the users of the application.

The requests in this section are:

- Get details from an existing user
- Edit authenticated user details

GET Get User Details By ID



http://127.0.0.1:8000/api/v1//user/39/

Provide to the authenticated user the details of the user whose ID is passed as a path variable in the URL

Headers

Authorization Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee Example Request Get User Details By ID

```
curl --location --request GET '{{APIURLPHONE}}/user/39/' \ --header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee'
```

Example Response 200 OK

```
Body Headers(8)

{
    "id": 39,
    "email": "doe.john@hotmail.fr",
    "first_name": "John",
    "last_name": "Doe",
    "room_number": "ALOES A001.4",
    "campus": "Metz",
    "profile_picture": "http://192.168.1.29:8000/media/user/android.png"
}
```

PATCH Edit authenticated user details



http://127.0.0.1:8000/api/v1//user/39/

Edit authenticated user details

The ID in the URL must match the authenticated user ID.

Since it is a PATCH request, each field from the ones below can be edited. However, there are all optional: if a field is not sent in the request body, the value will not change.

Headers

Authorization	Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee	

Body formdata

ALOES A001.4	
Optional	
Metz	
Optional	
	Optional Metz

```
profile_picture
                            Optional
first name
                            John
                            Optional
last_name
                            Doe
                            Optional
```

```
Example Request
                                                                Edit authenticated user details
curl --location --request PATCH '{{APIURLPHONE}}/user/39/' \
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee' \
--form 'room_number=ALOES A001.4' \
--form 'campus=Metz'
Example Response
                                                                                   200 OK
Body
      Headers (8)
{
  "id": 39,
  "email": "doe.john@hotmail.fr",
  "first_name": "John",
  "last_name": "Doe",
  "room_number": "ALOES A001.4",
  "campus": "Metz",
  "profile_picture": "http://192.168.1.29:8000/media/user/android.png"
```

Products

}

Add a description...

POST Add Product



http://127.0.0.1:8000/api/v1//product/

The authenticated user can add a product: its status will automatically be set to Available, the supplier will be the authenticated user and its campus will be the one of the authenticated user.

Headers

Content-Type	application/x-www-form-urlencoded
Authorization	Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee

Body formdata

name	Lasagnes
product_picture	Optional
category	Conserves/Plats cuisinés
expiration_date	2020-05-02
	Valid format : YYYY-MM-DD
quantity	250g

curl --location --request POST '{{APIURLPHONE}}/product/' \ --header 'Content-Type: application/x-www-form-urlencoded' \ --header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee' \ --form 'name=Lasagnes' \ --form 'product_picture=@/path/to/file' \

--form 'category=Conserves/Plats cuisinés' \

--form 'expiration_date=2020-05-02' \

--form 'quantity=250g'

Example Response 201 Created

Body Headers (8)

Example Request

Add Product

```
"id": 178,
"name": "Lasagnes",
"category": "Conserves/Plats cuisinés",
"status": "Available",
"product_picture": "http://192.168.1.29:8000/media/product/apple.jpg",
"quantity": "250g",
"expiration_date": "2020-05-02",
"campus": "Metz",
"created at": "2020-05-02T15:52:24.9778427".
```

GET Get Products



http://127.0.0.1:8000/api/v1//product/?status=Available&shared=1&page=2

Paged request that renders a list of products sorted by their updated_date and whose campus matches the one of the authenticated user.

Several parameters can be added to specify the request:

- page corresponds the page which to display
- status allows to filter products according to their status
- shared is a boolean. If it is true it will render products supplied by the authenticated user

Headers

Content-Type	application/x-www-form-urlencoded
Authorization	Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee

Params

status	Available
shared	1
	If true, supplier matches the authenticated user
page	2
	Default : 1

Example Request Get Products

```
curl --location --request GET '{{APIURLPHONE}}/product/?status=Available' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee'
Example Response
                                                                                 200 OK
      Headers (8)
Body
  "count": 47,
  "next": "http://192.168.1.29:8000/api/v1/product/?page=2&status=Available",
  "previous": null,
  "results": [
      "id": 189,
      "name": "Baguette",
      "category": "Desserts/Pain",
      "status": "Available".
```

DELETE Delete Product



http://127.0.0.1:8000/api/v1//product/178/

Delete product according to the product ID passed as a path variable in the URL The product to delete must have been supplied by the authenticated user

Headers

Authorization Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee

```
Example Request
                                                                             Delete Product
curl --location --request DELETE '{{APIURLPHONE}}/product/178/' \
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee'
Example Response
                                                                                   200 OK
      Headers (8)
Body
```

```
"id": 178,
"name": "Lasagnes",
"category": "Conserves/Plats cuisinés",
"status": "Available",
"product_picture": "http://192.168.1.29:8000/media/product/apple.jpg",
"quantity": "250g",
"expiration_date": "2020-05-02",
"campus": "Metz",
"created at": "2020-05-02T15:52:24.9778427".
```

Orders

Category that gathers order related requests:

- Get ordered products
- Order a product
- Delete order by product ID
- Deliver

GET Get ordered products



http://127.0.0.1:8000/api/v1//order/?page=1

Renders a paged products list sorted by their updated_at attributes and whose customer corresponds to the authenticated user

Headers

Authorization	Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee

Params

1 page Default: 1

Example Request

Get ordered products

```
curl --location --request GET '{{APIURLPHONE}}/order/?page=1' \
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee'
Example Response
                                                                                  200 OK
      Headers (8)
Body
{
  "count": 3,
  "next": null,
  "previous": null,
  "results": [
      "id": 180,
      "name": "Steak Haché",
      "category": "Viandes/Oeufs",
```

POST Order a product

"status": "Collected".



http://127.0.0.1:8000/api/v1//order/

Allows the authenticated user to create an order by specifying the product ID in the request body. The authenticated user will automatically be the customer They are a few conditions for the transaction to be possible:

- The status of the concerned product must be *Available*
- The authenticated user must not be the supplier
- The authenticated user (customer) and the product campus attribute must match

Once the request is done, the product status is updated from Available to Collected and the server sends an automatic email to both the customer and the supplier to make them aware of the order.

Headers

Authorization	Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee
Body formdata	
product	182

Example Request Order a product

```
curl --location --request POST '{{APIURLPHONE}}/order/' \
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee' \
--form 'product=182'
Example Response
                                                                             201 Created
      Headers (8)
Body
  "id": 182,
  "name": "Lasagnes",
  "category": "Conserves/Plats cuisinés",
  "status": "Collected",
  "product_picture": "http://192.168.1.29:8000/media/product/apple.jpg",
  "quantity": "250g",
  "expiration_date": "2020-05-02",
  "campus": "Metz",
  "created at": "2020-05-02T16:13:23.5553067".
```

DELETE Delete Order By Product ID



http://127.0.0.1:8000/api/v1//order/182/

Allows the authenticated user to cancel an order he created by specifying the product ID of the order in the URL. They are a few conditions for the cancellation to be feasible:

- The authenticated user must be the customer of the order
- The status of the product must be *Collected* (cannot delete an order if the transaction has already been made)

Once the request is done, the product status is updated from Collected to Available and the server sends an automatic email to both the customer and the supplier to make them aware of the cancellation.

Headers

Authorization

Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee

Example Request

Delete Order By Product Id

```
curl --location --request DELETE '{{APIURLPHONE}}/order/182/' \
--header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee'
```

Example Response 200 OK

```
Body Headers (8)
  "id": 182,
  "name": "Lasagnes",
  "category": "Conserves/Plats cuisinés",
  "status": "Available",
  "product_picture": "/media/product/apple.jpg",
  "quantity": "250g",
  "expiration_date": "2020-05-02",
  "campus": "Metz",
  "created at": "2020-05-02T16:13:23.5553067".
```

PATCH Deliver



{{APIURLPHONE}}/order/180/

Once an ordered product (specified through the product ID in the ULR) has been delivered, the customer (aka the authenticated user) can mark the product as Delivered. Once the request is done, the product status is updated from Collected to Delivered and the server sends an automatic email to both the customer and the supplier to make them aware of the delievery.

Headers

Authorization

Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee

Example Request Deliver curl --location --request PATCH '{{APIURLPHONE}}/order/180/' \ --header 'Authorization: Token 22462050c1b72c9b7ef004f6ca58563bd01c48ee' **Example Response** 200 OK

Headers (8) Body

```
"id": 180,
"name": "Steak Haché",
"category": "Viandes/Oeufs",
"status": "Delivered",
"product_picture": "/media/product/apple.jpg",
"quantity": "20",
"expiration_date": "2020-05-10",
"campus": "Metz",
"created at": "2020-05-02T16:10:52.0672587".
```