

HTTP Request Parameters

Request parameters are formatted in JSON. Send a single dictionary { } without nesting. Input parameters in [brackets] are optional.

An “Authorize: UserPass” route request must have these key-value pairs in its JSON body:

- String username
- String password

An “Authorize: Session” route request must have the following HTTP header:

`Authorization: Bearer TOKEN`

Where `TOKEN` is replaced with the session token returned by `api/user/login`. Currently, sessions expire after 20 minutes.

HTTP Response

When getting a response back, check the HTTP status code first. If it is 200 OK, that means the request was received, the authorization succeeded, and the request was processed successfully; a JSON body is included in the response. Otherwise, the HTTP status code (401 Unauthorized, 500 Internal Server Error, etc.) indicates what went wrong. There may be a JSON body.

Response Body Format (JSON)

```
{
    "value": object,
    "another_value": object,
    ...
}
```

Many responses give only a “data” string which may contain a relatively user-friendly message. A `(NULL)` next to a key-value pair in the documentation indicates the pair may be null.

HTTP Status Codes

- **200 OK** - API route completed successfully
- **400 Bad Request** - API route determined input is invalid
- **401 Unauthorized** - Invalid or incorrect credentials (user + pass or session token)
- **403 Forbidden** - Authenticated but not allowed into this route, either because the wrong form of authentication was used or because the type of user is not allowed
- **500 Internal Server Error** - Usually means an exception was thrown and not caught; this may happen for invalid inputs, so many such cases should be caught and replaced with an explicit 400 Bad Request

API

Register User

POST api/user/register

Authorize: None

IN

- String username
- String password
- String email
- String address
- String zip
- String user_type ("business" / "client")
- If client
 - String first_name
 - String last_name
 - String cell_phone
 - Bool paying
- If business
 - String name
 - String work_phone
 - [String instructions]

Body on OK:

```
"data": string
```

Body on Bad Request:

```
"data": string
```

Login

POST api/user/login

Authorize: UserPass

Body on OK:

```
"session_token": string
```

Logout

POST api/user/logout

Authorize: Session

Body on OK:

```
"data": string
```

Get User Info

POST api/user/getinfo

Authorize: Session

Body on OK:

```
"username": string
```

```
"email": string
```

```
"address": string
```

```
"zip": string
```

```
"user_type": string ("client" OR "business")
```

```
"cid" : int (client only)
```

```
"first_name": string (client only)
```

```
"last_name": string (client only)
```

```
"cell_phone": string (client only)
```

```
"paying": bool (client only) [FIXME: not implemented]
```

```
"name": string (business only)
```

```
"work_phone": string (business only)
```

```
"instructions": string (NULL) (business only)
```

Body on Bad Request:

```
"data": string
```

Get User Type

POST api/user/getusertype

Authorize: Session

Body on OK:

```
"user_type": string ("client" OR "business")
```

Body on Bad Request:

```
"data": string
```

Logout All Sessions

POST api/user/logoutall

Authorize: UserPass

Body on OK:

`"data": string`

Set User Info

POST api/user/setinfo

Authorize: UserPass

IN

- String new_username
- String email
- String address
- String zip
- If client
 - String first_name
 - String last_name
 - String cell_phone
 - Bool paying [FIXME: not implemented]
- If business
 - String name
 - String work_phone
 - [String instructions]

Body on OK:

`"data": string`

Body on Bad Request:

`"data": string`

Set Password

POST api/user/setpassword

Authorize: UserPass

IN

- String new_password

Body on OK:

`"data": string`

Delete User (client only)

POST api/user/delete

Authorize: UserPass

Body on OK:

```
"data": string
```

FIXME: Need routes to Request Reset Password (sends an email) and Reset Password (reset password with non-UserPass authorization, related to that email)

FIXME: Need something similar for when user forgets username (or just replace usernames with email addresses)

Get Business (for public view)

POST api/business/getbusiness

Authorize: None

IN

- Int bid

Body on OK:

"email": string

"address": string

"zip": string

"name": string

"work_phone": string

"instructions": string (NULL)

Body on Bad Request:

"data": string

Get Packages

POST api/package/getpackages

Authorize: Session

IN

- Bool only_eligible
 - For client:
 - True: Packages that can be claimed or received by this client
 - False: Also includes client's received packages
 - For business:
 - True: Business's packages that are not yet received by a client
 - False: Also includes business's packages that have been received

Body on OK:

```
"packages": [  
  {  
    "pid": int  
    "owner_bid": int  
    "business_name": string  
    "business_address": string  
    "claimer_cid": int (NULL)  
    "name": string  
    "description": string (NULL)  
    "quantity": string (NULL)  
    "price": decimal  
    "created": datetime  
    "expires": datetime (NULL)  
    "claimed": datetime (NULL)  
    "received": datetime (NULL)  
  },  
  ...  
]
```

Body on Bad Request:

```
"data": string
```

Create Package (business only)

POST api/package/createpackage

Authorize: Session

IN

- String name
- [String description]
- [String quantity]
- Decimal price
- [Datetime expires] (in UTC)

Body on OK:

`"data": string`

Delete Package (business only)

POST api/package/deletepackage

Authorize: Session

IN

- Int pid

Body on OK:

`"data": string`

Body on Bad Request:

`"data": string`

Set Package's Claim

POST api/package/claim

Authorize: Session

IN

- Int pid
- Bool claim (ignored for businesses, always false)

Body on OK:

`"data": string`

Body on Bad Request:

`"data": string`

Mark Package Received (business only)

POST api/package/markreceived

Authorize: Session

IN

- Int pid

Body on OK:

"data": string

Body on Bad Request:

"data": string