**# API documentation**

**## Response definition**

**### Response for valid request**

```json

{

"status": 1,

"data": "<requested data>"

}

```

**### Response for invalid request**

```json

{

"status": 0,

"code": "<error code>",

"msg": "<reason for invalid request>"

}

```

**## API list**

**### ./hello**

For test purpose

\* `./hello`

\* Method `GET`

\* Request

\* `prefix`\*: String, the people who say 'Hello world!'

\* Response

\* `data`: String, the message to display

\* Error code

\* `000`: Missing arguments

\* Method `POST`

\* Request

\* `name`\*: String, username

\* `email`\*: String: email

\* Response

\* `data`: String, the message to display

\* Error code

\* `000`: Missing arguments

**### ./auth**

\* `./auth/user/login`: user log in

\* Method `POST`

\* Request

\* `email`\*: String, the email user used to register

\* `password`\*: String, user's password

\* Response

\* `data`

\* `username`\*: String, username to display

\* `avatar`: String, url of the user's profile photo

\* Error code

\* `000`: Missing arguments

\* `001`: Incorrect password

\* `002`: Email not registered

\* `./auth/user/logout`: user log out

\* Method `POST`

\* Request: None

\* Response

\* `data`: Empty string

\* `./auth/staff/login`: staff log in

\* Method `POST`

\* Request

\* `email`\*: String, the email staff used to register

\* `password`\*: String, user's password

\* Response

\* `data`

\* `username`: String, username to display

\* `avatar`: String, url of the staff's profile photo

\* Error code

\* `000`: Missing arguments

\* `001`: Incorrect password

\* `002`: Email not registered

\* `./auth/staff/logout`: staff log out

\* Method `POST`

\* Request: None

\* Response

\* `data`: Empty string

\* `./auth/admin/login`: admin log in

\* Method `POST`

\* Request

\* `password`\*: String, user's password

\* Response

\* `data`: Empty string

\* Error code

\* `000`: Missing arguments

\* `001`: Incorrect password

\* `./auth/admin/logout`: admin log out

\* Method `POST`

\* Request: None

\* Response

\* `data`: Empty string

\* `./auth/code`

\* Method: `POST`: generate a verification code for staff/user

\* Request:

\* `email`: the email to send to

\* Response

\* `data`: Empty string

\* Error code:

\* `000`: Missing arguments

**### ./account**

\* `./account/user`

\* Method `POST`: add new user

\* Request

\* `username`\*: String, nickname preferred by user

\* `email`\*: String, email address, unique

\* `birthday`: String, date of birth, format 'YYYY-MM-DD'

\* `gender`: String, must in 'Male', 'Female', 'Other'

\* `bio`: String, an introduction of user

\* `avatar`: File, an img of user's avatar (Can be ignored in cycle 1)

\* `password\*`: String, user's password

\* Response

\* `data`: Empty string

\* Error code

\* `000`: Missing arguments

\* `003`: Email already registered

\* `004`: Birthday format incorrect

\* `005`: Gender not valid

\* `006`: Avatar file not valid

\* `007`: Password not valid

\* Method `PUT`: update user info

\* Request

\* `username`: String, nickname preferred by user

\* `email`: String, email address, unique

\* `birthday`: String, date of birth, format 'YYYY-MM-DD'

\* `gender`: String, must in 'Male', 'Female', 'Other'

\* `bio`: String, an introduction of user

\* `avatar`: File, an img of user's avatar (Can be ignored in cycle 1)

\* `password`: String, user's password

\* `verification\_code`: String, necessary if requests to change password

\* Response

\* `data`: Empty string

\* Error code

\* `000`: Missing arguments

\* `003`: Email already registered

\* `004`: Birthday format incorrect

\* `005`: Gender not valid

\* `006`: Avatar file not valid

\* `007`: Password not valid

\* `009`: Not logged in or not qualified

\* `010`: verification code not correct

\* Method `GET`: get one user info

\* Request: has at least 1 argument

\* `email`: email of the user

\* `user\_id`: user\_id

\* Response

\* `data`

\* `username`: String, nickname preferred by user

\* `email`: String, email address, unique

\* `birthday`: String, date of birth, format 'YYYY-MM-DD'

\* `gender`: String, must in 'Male', 'Female', 'Other'

\* `bio`: String, an introduction of user

\* `avatar`: File, an img of user's avatar (Can be ignored in cycle 1)

\* `user\_id`: the id of the user

\* Error code

\* `000` Missing arguments

\* `008` No such user

\* `./account/user/posts`: see **\*\*public\*\*** post of one user (different from `./posts/my`)

\* Method `GET`

\* Request

\* `user\_id`: user\_id

\* Response

\* `data`: \<Same as type 2 response for `GET: ./posts`\>

\* Error code

\* `000` Missing arguments

\* `008` No such user

\* `./account/user/addresses`

\* Method `GET`: get my addresses

\* Request: `None`

\* Response

\* `data`: a list of the following address

\* `address\_id`: String, key (ID) of this address

\* `name`: String, receiver name (not username)

\* `phone`: String, user's phone

\* `address`: String, address information

\* Error code

\* `009`: Not logged in or not qualified

\*

\* Method `POST`: add a new address

\* Request

\* `name`: String, receiver name (not username)

\* `phone`: String, user's phone

\* `address`: String, address information

\* Response

\* `data`: an empty string

\* Error code

\* `000`: Missing arguments

\* `009`: Not logged in or not qualified

\* Method `PUT`: modify an existing address

\* Request

\* `address\_id`: String, key (ID) of this address

\* `name`: String, receiver name (not username)

\* `phone`: String, user's phone

\* `address`: String, address information

\* Response

\* `data`: an empty string

\* Error code

\* `000`: Missing arguments

\* `009`: Not logged in or not qualified

\* Method `DELETE`: delete an existing address

\* Request

\* `address\_id`: String, key (ID) of this address

\* Response

\* `data`: an empty string

\* Error code

\* `000`: Missing arguments

\* `009`: Not logged in or not qualified

\* `./account/staff`: add new staff

\* Method `POST`

\* Request

\* `username`\*: String, nickname preferred by user

\* `email`\*: String, email address, unique

\* `birthday`: String, date of birth, format 'YYYY-MM-DD'

\* `gender`: String, must in 'Male', 'Female', 'Other'

\* `bio`: String, an introduction of user

\* `avatar`: File, an img of user's avatar (Can be ignored in cycle 1)

\* `password`\*: String, user's password

\* Response

\* `data`: Empty string

\* Error code

\* `000`: Missing arguments

\* `003`: Email already registered

\* `004`: Birthday format incorrect

\* `005`: Gender not valid

\* `006`: Avatar file not valid

\* `007`: Password not valid

\* Method `PUT`: update staff info

\* Request

\* `username`: String, nickname preferred by user

\* `email`: String, email address, unique

\* `birthday`: String, date of birth, format 'YYYY-MM-DD'

\* `gender`: String, must in 'Male', 'Female', 'Other'

\* `bio`: String, an introduction of user

\* `avatar`: File, an img of user's avatar (Can be ignored in cycle 1)

\* `password`: String, user's password

\* `verification\_code`: String, necessary if requests to change password

\* Response

\* `data`: Empty string

\* Error code

\* `000`: Missing arguments

\* `003`: Email already registered

\* `004`: Birthday format incorrect

\* `005`: Gender not valid

\* `006`: Avatar file not valid

\* `007`: Password not valid

\* `009`: Not logged in or not qualified

\* `010`: verification code not correct

\* Method `GET`: get one staff info

\* Request: has at least 1 argument

\* `email`: email of the staff

\* `staff\_id`: staff\_id (currently user\_id)

\* Response

\* `data`

\* `username`: String, nickname preferred by user

\* `email`: String, email address, unique

\* `birthday`: String, date of birth, format 'YYYY-MM-DD'

\* `gender`: String, must in 'Male', 'Female', 'Other'

\* `bio`: String, an introduction of user

\* `avatar`: File, an img of user's avatar (Can be ignored in cycle 1)

\* `staff\_id`: the id of the staff

\* Error code

\* `000` Missing arguments

\* `008` No such staff

**### ./posts**

\* `./posts`

\* Method `GET`: get one post **\*\*or\*\*** search for posts according to keywords

\* Request (type 1: get exactly one post by post\_id)

\* `post\_id`\*: The original post id

\* Request (type 2: search for posts according to keywords)

\* `search`\*: keyword to search, this could be something in the product title, or product description

\* Response (type 1: get exactly one post by post\_id)

\* `data`

\* `post\_id`: int, The post id searched for

\* `post\_title`: String, post title

\* `post\_content`: String, The content of the post, entered by the user

\* `post\_author\_id`: String, Author's user\_id

\* `post\_author\_username`: String, Author's username

\* `post\_author\_avatar`: String, Author's Avatar

\* `post\_creation\_time`: String, time of post creation, %Y-%m-%d %H:%M

\* `post\_modification\_time`: String, time of last modification, %Y-%m-%d %H:%M

\* `post\_status`: int, {0: deleted, 1: visible to public, 2: private}

\* `post\_product\_status`: int, {0: sold, 1:for\_sale}

\* `post\_product\_price`: float, .2f. The price the seller enters

\* `post\_images`: list, \[String, String, String...\], the urls of images the seller uploaded

\* Response (type 2: search for posts according to keywords)

\* `data`: list, \[ \<post attributes same as Response type 1\>\]

\* Error code

\* `000`: Missing arguments

\* `011`: The post does not exist or is deleted/hidden

\* Method `POST`: create new post

\* Request

\* `post\_title`: String, post title

\* `post\_content`: String, The content of the post, entered by the user

\* `post\_status`: int, {1: visible to public, 2: private} (Cannot set to be {0: deleted} here)

\* `post\_product\_price`: float, .2f. The price the seller enters

\* `post\_images`: list of File (Can be ignored in cycle 2)

\* Response (type 2: search for posts according to keywords)

\* `data`: Empty String

\* Error code

\* `000`: Missing arguments

\* `009`: Not logged in or not qualified

\* `014`: Invalid `post\_status`

\* `015`: Invalid `post\_product\_price`

\* `006`: Invalid `post\_images`

\* Method `PUT`: update existing post

\* Request

\* `post\_id`: String, the original `post\_id`

\* `post\_title`: String, post title

\* `post\_content`: String, The content of the post, entered by the user

\* `post\_status`: int, {1: visible to public, 2: private} (Cannot set to be {0: deleted} here)

\* `post\_product\_price`: float, .2f. The price the seller enters

\* `post\_images`: list of File (Can be ignored in cycle 2)

\* Response

\* `data`: Empty String

\* Error code

\* `000`: Missing arguments

\* `009`: Not logged in or not qualified

\* `014`: Invalid `post\_status`

\* `015`: Invalid `post\_product\_price` price= -1 still works

\* `006`: Invalid `post\_images`

\* `016`: The post is locked

\* Method `DELETE`: delete existing post

\* Request

\* `post\_id`: String, the original `post\_id`

\* Response

\* `data`: Empty String

\* Error code

\* `000`: Missing arguments

\* `009`: Not logged in or not qualified

\* `016`: The post is locked

\* `017`: The post is already deleted (009 instead)

\* `./posts/my`

\* Method `GET`: user's posts. **\*\*Note: must log in to see my posts, including both private and public ones\*\***,

different from `./account/user/posts`

\* Request

\* `None`

\* Response

\* `data`: \<Same as type 2 response for `GET: ./posts`\>