

mt_api Documentation

URL: <a href="http://localhost:8080/users/<id_or_name>">http://localhost:8080/users/<id_or_name>	
HTTP Method	Resulting Behavior
GET	Fetch user's information
PUT	Not supported for this endpoint
POST	Not supported for this endpoint
DELETE	Not supported for this endpoint

This api will get user's information

Requirement for outgoing JSON object is either username or user_id

Example:

Response to GET <http://localhost:8080/users/thomas>

```
{
  "email": "tngo0508@gmail.com",
  "pw_hash": "pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
  "user_id": 1,
  "username": "thomas"
}
```

OR

Response to GET <http://localhost:8080/users/1>

```
{
  "email": "tngo0508@gmail.com",
  "pw_hash": "pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
  "user_id": 1,
  "username": "thomas"
}
```

URL: <a href="http://localhost:8080/users/<username>/add_message">http://localhost:8080/users/<username>/add_message	
HTTP Method	Resulting Behavior
GET	Not supported for this endpoint
PUT	Not supported for this endpoint
POST	Inserts a new message from current <username>
DELETE	Not supported for this endpoint

This api will insert a new message from current user who logged in

Required following fields for outgoing JSON object: username, pw_hash, text, author_id, and user_id

Example:

Request to POST http://localhost:8080/users/thomas/add_message

```
{
  "pw_hash": "pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
  "text": "hello world!!!",
  "username": "thomas",
  "author_id": "1",
}
```

Response to GET http://localhost:8080/users/thomas/add_message
Your message was recorded

URL: <a href="http://localhost:8080/users/<username>/messages">http://localhost:8080/users/<username>/messages	
HTTP Method	Resulting Behavior
GET	Fetch user's information and all messages created
PUT	Not supported for this endpoint
POST	Not supported for this endpoint
DELETE	Not supported for this endpoint

This api will display a user's tweets

Required following fields for outgoing JSON object: username, pw_hash, user_id, and profile_user_id

Example:

Request to GET <http://localhost:8080/users/thomas/messages>

```
{
  "pw_hash": "pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
  "username": "thomas",
  "user_id": "1",
  "profile_user_id": "1",
}
```

Response to GET <http://localhost:8080/users/thomas/messages>

```
{
  "author_id": 1,
  "email": "tngo0508@gmail.com",
  "message_id": 12,
  "pub_date": 1518409848,
  "pw_hash": "pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
  "text": "populates database for testing",
  "user_id": 1,
  "username": "thomas"
}
```

}

URL: <a href="http://localhost:8080/users/<username1>/follow/<username2>">http://localhost:8080/users/<username1>/follow/<username2>	
HTTP Method	Resulting Behavior
GET	Not supported for this endpoint
PUT	Not supported for this endpoint
POST	Add the username1 as follower of the given username2
DELETE	Not supported for this endpoint

Required following fields for outgoing JSON object: username, pw_hash

Example:

Request to GET <http://localhost:8080/users/thomas/follow/bob>

```
{  "pw_hash": "pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
  "username": "thomas"
}
```

Response to POST <http://localhost:8080/users/thomas/follow/bob>

You are following bob

URL: http://localhost:8080/messages	
HTTP Method	Resulting Behavior
GET	Fetch all messages from all users
PUT	Not supported for this endpoint
POST	Not supported for this endpoint
DELETE	Not supported for this endpoint

Response to GET <http://localhost:8080/messages>

```
{
  "text": "populates database for testing",
  "username": "thomas"
},
{
  "text": "I am practicing web service API",
  "username": "thomas"
},
{
  "text": "test following",
  "username": "thomas"
}
```

```
},
{
  "text": "bar",
  "username": "eve"
},
{
  "text": "foo",
  "username": "eve"
},
...
```

URL: <a href="http://localhost:8080/messages/<user_id>">http://localhost:8080/messages/<user_id>	
HTTP Method	Resulting Behavior
GET	Fetch all messages from <user_id>
PUT	Not supported for this endpoint
POST	Not supported for this endpoint
DELETE	Not supported for this endpoint

Example:

Response to GET <http://localhost:8080/messages/2>

```
{
  "text": "123",
  "username": "bob"
},
{
  "text": "second comment",
  "username": "bob"
},
{
  "text": "third post",
  "username": "bob"
}
```

URL: <a href="http://localhost:8080/users/<user_id>/followers">http://localhost:8080/users/<user_id>/followers	
HTTP Method	Resulting Behavior
GET	Fetch all users that are followers of the user <user_id>

PUT	Not supported for this endpoint
POST	Not supported for this endpoint
DELETE	Not supported for this endpoint

Required following fields for outgoing JSON object: username and pw_hash related to <user_id>

Example:

Request to GET <http://localhost:8080/users/2/followers>

```
{
  "pw_hash": "pbkdf2:sha256:50000$ZccswADr$641523567028e8e6ffe6eb41be32c0f5687989a672f56f58754b149cb5de12b4",
  "username": "bob"
}
```

Response to GET <http://localhost:8080/users/2/followers>

```
{
  "followee": "bob",
  "follower": "thomas"
}
```

URL: <a href="http://localhost:8080/users/<user_id>/follow">http://localhost:8080/users/<user_id>/follow	
HTTP Method	Resulting Behavior
GET	Fetch true or 1 if user_id has followers
PUT	Not supported for this endpoint
POST	Not supported for this endpoint
DELETE	Not supported for this endpoint

This api will return 1 if user_id has followers. Otherwise, return None

Required following fields for outgoing JSON object: username, pw_hash, user_id, and whom_id

Example:

Request to GET <http://localhost:8080/users/3/followers>

```
{
  "pw_hash": "pbkdf2:sha256:50000$XArlgzMX$73e58aef7c4ffd196acab89ae912837172583170d794bc29370193731a437bf0",
  "username": "eve",
  "user_id": "3",
  "whom_id": "1",
}
```

Response to GET <http://localhost:8080/users/3/followers>

1 (if user has followers) Or None (if user does not have follower)

URL: <a href="http://localhost:8080/messages/<user_id>/add_message">http://localhost:8080/messages/<user_id>/add_message	
HTTP Method	Resulting Behavior
GET	Not supported for this endpoint
PUT	Not supported for this endpoint
POST	Insert a message into table message of <user_id>
DELETE	Not supported for this endpoint

Required following fields for outgoing JSON object: username, pw_hash, author_id and texts

Example:

Request to POST http://localhost:8080/messages/3/add_message

```
{
  "author_id": 3,
  "pw_hash":
"pbkdf2:sha256:50000$XArlgzMX$73e58aef7c4ffd196acab89ae912837172583170d794bc293701937
31a437bf0",
  "text": "hello world!!!",
  "username": "eve",
}
```

Request to POST http://localhost:8080/messages/3/add_message

Your message was successfully recorded

URL: <a href="http://localhost:8080/users/<user_id>/add_follow">http://localhost:8080/users/<user_id>/add_follow	
HTTP Method	Resulting Behavior
GET	Not supported for this endpoint
PUT	Not supported for this endpoint
POST	Insert a message into table message of <user_id>
DELETE	Not supported for this endpoint

Required following fields for outgoing JSON object: username, pw_hash and whom_id

Example:

Request to POST http://localhost:8080/messages/1/add_follow

```
{
```

```
"pw_hash":
"pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa24
8034d09d",
"username": "thomas",
"whom_id": 3
}
```

Response to POST http://localhost:8080/messages/1/add_follow
You are following user has user_id 3

URL: <a href="http://localhost:8080/users/<user_id>/unfollow">http://localhost:8080/users/<user_id>/unfollow	
HTTP Method	Resulting Behavior
GET	Not supported for this endpoint
PUT	Not supported for this endpoint
POST	Not supported for this endpoint
DELETE	Delete the following a user who has <whom_id>

Required following fields for outgoing JSON object: username, pw_hash, whom_id, username

Example:

Request to DELETE <http://localhost:8080/users/3/followers>

```
{
  "pw_hash":
"pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa24
8034d09d",
  "username": "thomas",
  "whom_id": 3
}
```

Response to DELETE <http://localhost:8080/users/3/followers>
You are no longer following user has 3

URL: <a href="http://localhost:8080/users/<user_id>/change_password">http://localhost:8080/users/<user_id>/change_password	
HTTP Method	Resulting Behavior
GET	Not supported for this endpoint
PUT	Replace old password with new password
POST	Not supported for this endpoint

DELETE	Not supported for this endpoint
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Required following fields for outgoing JSON object: username, pw_hash, password and confirmed_password

Example:

Request to PUT http://localhost:8080/users/1/change_password

```
{
  "confirmed_password": "thomas098",
  "password": "thomas098",
  "pw_hash":
"pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
  "username": "thomas"
}
```

Response to PUT http://localhost:8080/users/1/change_password

Your password was successfully changed

URL: <a href="http://localhost:8080/users/<user_id>/change_email">http://localhost:8080/users/<user_id>/change_email	
HTTP Method	Resulting Behavior
GET	Not supported for this endpoint
PUT	Replace old email with new email
POST	Not supported for this endpoint
DELETE	Not supported for this endpoint

Required following fields for outgoing JSON object: username, pw_hash, email and confirmed_email

Example:

Request to PUT http://localhost:8080/users/1/change_email

```
{
  "confirmed_email": "abc@example.com",
  "email" : "abc@example.com",
  "pw_hash":
"pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
  "username": "thomas"
}
```

Response to PUT http://localhost:8080/users/1/change_email

Your email was successfully changed

URL: http://localhost:8080/users/Sign_up	
HTTP Method	Resulting Behavior
GET	Not supported for this endpoint
PUT	Not supported for this endpoint
POST	Insert new user information
DELETE	Not supported for this endpoint

This api will register a new user's information

Required following fields for outgoing JSON object: username, email, pw_hash

Example:

Request to POST http://localhost:8080/users/Sign_up

```
{
  "email": "harry@potter.com",
  "pw_hash":
"pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
  "username": "Harry"
}
```

Response to POST http://localhost:8080/users/Sign_up

You were successfully registered

URL: http://localhost:8080/users	
HTTP Method	Resulting Behavior
GET	Fetch messages and user's information
PUT	Not supported for this endpoint
POST	Not supported for this endpoint
DELETE	Not supported for this endpoint

This api will get user timeline if no user is logged in it will get the public timeline instead

Optional fields for outgoing JSON object: user_id, pw_hash, username

Response to <http://localhost:8080/users>

```
{
  "author_id": 1,
  "email": "tngo0508@gmail.com",
  "message_id": 1,
  "pub_date": 1518323568,
  "pw_hash":
"pbkdf2:sha256:50000$r1fUXyrZ$5908841c968862270f5a49550fa46d188680922d2c9c3e571f75fa248034d09d",
}
```

```
"text": "hello, world!",  
"user_id": 1,  
"username": "thomas"  
}
```

URL: http://localhost:8080/timeline	
HTTP Method	Resulting Behavior
GET	Fetch latest messages of all users
PUT	Not supported for this endpoint
POST	Not supported for this endpoint
DELETE	Not supported for this endpoint

No requirement for JSON object

Response to <http://localhost:8080/timeline>

```
{  
  "author_id": 2,  
  "email": "bob@example.com",  
  "message_id": 3,  
  "pub_date": 1518409690,  
  "pw_hash":  
  "pbkdf2:sha256:50000$ZccswADr$641523567028e8e6ffe6eb41be32c0f5687989a672f56f58754b149c  
b5de12b4",  
  "text": "123",  
  "user_id": 2,  
  "username": "bob"  
},
```