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Messaging System REST API

POST Register a new user

    http://127.0.0.1:5000/messaging-system/registration

In order to register a new user send a POST request to /messaging-system/registration with the following feilds in the request body:

1. username (must not already belong to another user).
2. password.
3. name.

BODY raw

```
{
    "username": "{username}",
    "password": "{password}",
    "name": "{name}"
}
```

Example Request   Register user Ran

```
curl --location --request POST 'http://127.0.0.1:5000/messaging-system/registration' \
--data-raw '{
    "username": "Ran",
    "password": "abcd",
    "name": "Ran Gafni"
}'
```

Example Response   201 Created

 Body   Header (0)

```
{
  "information": "user Ran registered"
}
```

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POST   Get JWT

http://127.0.0.1:5000/messaging-system/authentication

A JSON Web Token (JWT) is required for all the following API endpoints. In order to get the JWT send a POST request to /messaging-system/authenticate with the following fields in the request body:

1. username.
2. password.

After you received your JWT, you will not longer have to request it again until it expires in 12 hours.

The usage of the JWT in is as follows: In the request header, at the Authorization field, submit the the word "Bearer " (with space after it) and then the JWT. For example: if your JWT is "1234" then the Authorization field in the request header should be: "Bearer 1234".

BODY raw

```
{
    "username":"{username}",
    "password":"{password}"
}
```
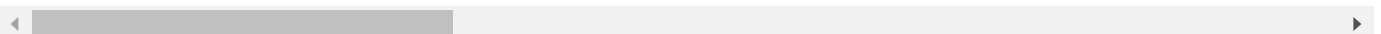
Example Request   JWT for user Ran

```
curl --location --request POST 'http://127.0.0.1:5000/messaging-system/authentication' \
--data-raw '{
    "username":"Ran",
    "password":"abcd"
}'
```

Example Response   200 OK

Body   Header (0)

```
{
  "jwt": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzMTc0NDk5MSwianRpIjoiNmR
}
```

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GET   Get all unread messages sent to user

http://127.0.0.1:5000/messaging-system/messages/unread   Documentation Settings ▼

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In order to get all the unread messages which were sent to the user send a GET request to /messaging-system/messages/unread.

Please pay attention to the 2 following details:

1. The messages received from this request will always have the "read" field marked as false.
2. After this request, the unread messages will have the "read" field marked as true for the next requests. this means that those messages will not be received again in response to GET messaging-system/messages/unread.

HEADERS

Authorization

Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzMTc0NDk5MSwianRpIjoiNmRhOTA0ZTgtZD diZS00MGUzLWExYzUtYTQ1ZjE0NmE1YjhjIiwidHlwZSI6ImFjY2VzcyIsInN1YiI6eyJ1c2VybmFtZSI6IlJhbiIsInBhc3N3b3JkIjoiYWJ jZCJ9LCJuYmYiOjE2MzE3NDQ5OTEsImV4cCI6MTYzMTc4ODE5MX0.vOqnx0Ed04-A4Bo44BJ2ESm3U8TxqT4C9CV5dOBkd4o

Example Request   All unread messages

```
curl --location --request GET 'http://127.0.0.1:5000/messaging-system/messages/unread' \
--header 'Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzl
```

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Example Response   200 OK

Body   Header (4)

```
{
  "messages": [
    {
      "id": 1,
      "sender_username": "Alon",
      "receiver_username": "Ran",
      "subject": "Hi Ran",
      "message": "Hi",
      "creation_date": "2021-09-16",        View More
      "read": false
```

GET Get all messages sent to user

http://127.0.0.1:5000/messaging-system/messages

In order to get all the messages which were sent to the user send a GET request to /messaging-system/messages.

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In response to this request, all messages sent to the user will be received, both read and unread messages. After this request all the previously unread messages will now be marked as read.

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HEADERS

Authorization

Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzMTc0NDk5MSwianRpIjoiNmRhOTA0ZTgtZD diZS00MGUzLWExYzUtYTQ1ZjE0NmE1YjhjIiwidHlwZSI6ImFjY2VzcyIsInN1YiI6eyJ1c2VybmFtZSI6IlJhbiIsInBhc3N3b3JkIjoiYWJ jZCJ9LCJuYmYiOjE2MzE3NDQ5OTEsImV4cCI6MTYzMTc4ODE5MX0.vOqnx0Ed04-A4Bo44BJ2ESm3U8TxqT4C9CV5dOBkd4o

Example Request   all messages

```
curl --location --request GET 'http://127.0.0.1:5000/messaging-system/messages' \
--header 'Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzM
```

Example Response   200 OK

Body   Header (4)

```
{
  "messages": [
    {
      "id": 1,
      "sender_username": "Alon",
      "receiver_username": "Ran",
      "subject": "Hi Ran",
      "message": "Hi",
      "creation_date": "2021-09-16",
      "read": true
```

View More

GET Get a message sent to user

http://127.0.0.1:5000/messaging-system/messages?message-id={message_id}

In order to get a specific message which was sent to the user, send a GET request to /messaging-system/messages with the query parameter message-id. For example: if the message id is 2 send a GET request to messaging-system/messages?message-id=2.

I the received message was marked as unread, it will now be marked as read.

HEADERS

Authorization
Bearer This documentation is not published yet, this is only a preview. Changes to the publishing settin...

eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzMTc0NDk5MSwianRpIjoiNmRhOTA0ZTgtZD

diZS00MGUzLWExYzUtYTQ1ZjE0NmE1YjhjIiwidHlwZSI6ImFjY2VzcyIsInN1YiI6eyJ1c2VybmFtZSI6IlJhbiIsInBhc3N3b3JkIjoiYWJ

jZCJ9LCJuYmYiOjE2MzE3NDQ5OTEsImV4cCI6MTYzMTc4ODE5MX0.vOqnx0Ed04-A4Bo44BJ2ESm3U8TxqT4C9CV5dOBkd4o

PARAMS

message-id
{message_id}

Example Request   Get message id=2

```
curl --location --request GET 'http://127.0.0.1:5000/messaging-system/messages?message-id=2' \
--header 'Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzN
```

Example Response   200 OK

Body   Header (4)

```
{
  "message": {
    "id": 2,
    "sender_username": "Alon",
    "receiver_username": "Ran",
    "subject": "How are you Ran?",
    "message": "How are you?",
    "creation_date": "2021-09-16",
    "read": true
  }
```

View More

DEL   Delete a message

http://127.0.0.1:5000/messaging-system/messages?message-id={message_id}

In order to delete a specific message which was sent either to or from the user, send a DELETE request to /messaging-system/messages with the query parameter message-id. for example: if the message id is 2 send a DELETE reques to /messaging-system/messages?message-id=2.

HEADERS

Authorization

Documentation Settings ▼

Bearer
ⓘ This documentation is not published yet, this is only a preview. Changes to the publishing settin...
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzMTc0NDk5MSwianRpIjoiNmRhOTA0ZTgtZD
diZS00MGUzLWExYzUtYTQ1ZjE0NmE1YjhjIiwidHlwZSI6ImFjY2VzcyIsInN1YiI6eyJ1c2VybmFtZSI6IlJhbiIsInBhc3N3b3JkIjoiYWJ
jZCJ9LCJuYmYiOjE2MzE3NDQ5OTEsImV4cCI6MTYzMTc4ODE5MX0.vOqnx0Ed04-A4Bo44BJ2ESm3U8TxqT4C9CV5dOBkd4o

PARAMS

message-id

{message_id}

Example Request   Delete message id=2

```
curl --location --request DELETE 'http://127.0.0.1:5000/messaging-system/messages?message-id=2' \
--header 'Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzM
```
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Example Response   200 OK

Body   Header (4)

```
{
    "information": "message deleted"
}
```

POST Write a message

http://127.0.0.1:5000/messaging-system/messages

In order to write a message to another user send a POST request to /messaging-system/messages with the following feilds in the request body:

1. receiver-username.
2. subject.
3. message.

The following feilds in the message wil be filled automatically:

1. message id - will be filled as the value of the biggest message id + 1.
2. sender username - will be filled as the username of the user the request was sent from.
3. creation date - will be filled as the current date when the request was sent.
4. read - will be filled as false

i. read will be filled as false.

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HEADERS

Authorization

Bearer
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzMTc0NDk5MSwianRpIjoiNmRhOTA0ZTgtZD
diZS00MGUzLWExYzUtYTQ1ZjE0NmE1YjhjIiwidHlwZSI6ImFjY2VzcyIsInN1YiI6eyJ1c2VybmFtZSI6IlJhbiIsInBhc3N3b3JkIjoiYW
jZCJ9LCJuYmYiOjE2MzE3NDQ5OTEsImV4cCI6MTYzMTc4ODE5MX0.vOqnx0Ed04-A4Bo44BJ2ESm3U8TxqT4C9CV5dOBkd4o

BODY raw

```
{
    "receiver-username":"{receiver_username}",
    "subject":"{subject}",
    "message":"{message}"
}
```

Example Request   Write a message to user Alon

```
curl --location --request POST 'http://127.0.0.1:5000/messaging-system/messages' \
--header 'Authorization: Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJmcmVzaCI6ZmFsc2UsImlhdCI6MTYzM
--data-raw '{
    "receiver-username":"Alon",
    "subject":"Hi",
    "message":"Hi Alon"
}'
```

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Example Response   201 CREATED

Body   Header (4)

```
{
   "information": "message posted with message id 4"
```