# **Social Network API Documentation**

## **Authentication**

### **Auth Token**

#### Request

* URL: /api/token/
* Method: POST
* Headers:
  + Content-Type: application/json
* Request Body:

{

"username": "admin\_ghada",

"password": "admin\_ghada"

}

#### Response

* Success Response (200 OK):
  + Login with a new user that has no token or a pre existing user that has an inactive token

{

"access\_token": "byl6fy-75b0b46b22e5832329e1a4739aa4f303",

"refresh\_token": "byl6fy-75b0b46b22e5832329e1a4739aa4f303"

}

* Error Response (401 Unauthorized):
  + Login with a pre existing user with active token

{

"Warning": "You should logout first to login from another device!"

}

* + Login with a not existing user

{

"error": "Invalid credentials, You should register user first"

}

## **User**

### **Create User**

#### Request

* URL: /create\_user/
* Method: POST
* Headers:
  + Content-Type: application/json
* Request Body:

{

"username": "Ghada",

"password": "Ghada123" ,

"email": "ghadagamalkarim@gmail.com"

}

#### Response

* Success Response (201 Created):

{

"username": "Ghada",

"email": "ghadagamalkarim@gmail.com"

}

* Error Response (400 Bad Request):
  + Username or email is already exists

{

"username": [

"A user with that username already exists."

],

"email": [

"user with this email already exists."

]

}

* + Missing data within the body request

{

"username": [

"This field is required."

],

"password": [

"This field is required."

],

"email": [

"This field is required."

]

}

## **Post**

### **Create Post**

#### Request

* URL: /create\_post/
* Method: POST
* Headers:
  + Authorization: Bearer your\_access\_token
  + Content-Type: application/json
* Request Body:

{ "user\_id" : "1",

"content": "new post content"

}

#### Response

* Success Response (201 Created):

{

"details": " Post is created successfully"

}

* Error Response (403 Forbidden):
  + None Authorization Bearer token within the sent request header

{

"detail": "User is not allowed to perform this action because the token is None."

}

* + When user has inactive token

{

"detail": "User is not allowed to perform this action because the token is inactive."

}

* Error Response(400 Bad Request):
  + Wrong user\_id

{

"details": "Invalid data"

}

* + Missing data within the body request

{

"user\_id": [

"This field is required."

],

"content": [

"This field is required."

]

}

## **Timeline**

### **Get Timeline**

#### Request

* URL: /timeline/
* Method: GET
* Headers:
  + Authorization: Bearer your\_access\_token

#### Response

* Success Response (200 OK):

{

"posts": [

{

"id": 12,

"comments": [

{

"id": 1,

"content": "The first comment",

"created\_at": "2023-12-02T17:36:22.426743Z",

"user": 1,

"post": 12

},

{

"id": 2,

"content": "Your comment content",

"created\_at": "2023-12-02T17:50:59.243408Z",

"user": 1,

"post": 12

},

{

"id": 3,

"content": "Your comment content",

"created\_at": "2023-12-02T17:51:37.266240Z",

"user": 1,

"post": 12

},

{

"id": 4,

"content": "Your comment content",

"created\_at": "2023-12-02T17:52:15.878569Z",

"user": 1,

"post": 12

},

{

"id": 5,

"content": "Your comment content",

"created\_at": "2023-12-02T17:57:29.394656Z",

"user": 1,

"post": 12

},

{

"id": 6,

"content": "Your comment content",

"created\_at": "2023-12-02T18:06:27.565674Z",

"user": 1,

"post": 12

},

{

"id": 7,

"content": "Your comment content",

"created\_at": "2023-12-02T18:14:28.265151Z",

"user": 1,

"post": 12

},

{

"id": 8,

"content": "Your comment content",

"created\_at": "2023-12-02T18:34:32.599840Z",

"user": 2,

"post": 12

},

{

"id": 9,

"content": "Your comment content",

"created\_at": "2023-12-02T18:37:31.324280Z",

"user": 2,

"post": 12

},

{

"id": 10,

"content": "Your comment content",

"created\_at": "2023-12-02T18:55:34.009259Z",

"user": 2,

"post": 12

},

{

"id": 11,

"content": "Your comment content",

"created\_at": "2023-12-02T18:57:43.663120Z",

"user": 2,

"post": 12

}

],

"content": "new post content",

"created\_at": "2023-12-02T17:16:26.093939Z",

"user": 2

},

{

"id": 11,

"comments": [],

"content": "new post content",

"created\_at": "2023-12-02T17:12:53.497926Z",

"user": 1

},

{

"id": 10,

"comments": [],

"content": "new post content",

"created\_at": "2023-12-02T14:11:34.247713Z",

"user": 1

},

{

"id": 9,

"comments": [],

"content": "new post content",

"created\_at": "2023-12-02T14:11:04.717516Z",

"user": 1

},

{

"id": 8,

"comments": [],

"content": "new post content",

"created\_at": "2023-12-02T14:10:38.093607Z",

"user": 1

},

{

"id": 7,

"comments": [],

"content": "new post content",

"created\_at": "2023-12-02T14:10:25.110058Z",

"user": 1

},

{

"id": 6,

"comments": [],

"content": "new post content",

"created\_at": "2023-12-02T14:10:06.420191Z",

"user": 1

},

{

"id": 5,

"comments": [],

"content": "new post content",

"created\_at": "2023-12-02T14:09:28.167255Z",

"user": 1

},

{

"id": 4,

"comments": [],

"content": "new post content",

"created\_at": "2023-12-02T12:36:44.501959Z",

"user": 1

},

{

"id": 3,

"comments": [],

"content": "new post content",

"created\_at": "2023-12-02T12:36:16.506348Z",

"user": 1

},

{

"id": 2,

"comments": [],

"content": "Ghada testing",

"created\_at": "2023-12-01T17:34:36.109163Z",

"user": 2

},

{

"id": 1,

"comments": [],

"content": "The First Post",

"created\_at": "2023-11-30T20:12:05.868600Z",

"user": 1

}

]

}

* Error Response (403 Forbidden):
  + None Authorization Bearer token within the sent request header

{

"detail": "User is not allowed to perform this action because the token is None."

}

* + When user has inactive token

{

"detail": "User is not allowed to perform this action because the token is inactive."

}

* Error Response(400 Bad Request):
  + Wrong user\_id or post\_id

{

"details": "Invalid data"

}

## **Comment**

### **Add Comment And Notify The Post’s Author Via Email In The**

### **Background.**

#### Request

* URL: /add\_comment/
* Method: POST
* Headers:
  + Authorization: Bearer your\_access\_token
  + Content-Type: application/json
* Request Body:

{

"user": 2,

"post": 12,

"content": "Your comment content"

}

#### Response

* Success Response (201 Created):

{

"details": " Comment is created successfully and Email is sent successfully"

}

* Error Response (403 Forbidden):
  + None Authorization Bearer token within the sent request header

{

"detail": "User is not allowed to perform this action because the token is None."

}

* + When user has inactive token

{

"detail": "User is not allowed to perform this action because the token is inactive."

}

* Error Response(400 Bad Request):
  + Wrong user\_id or post\_id

{

"details": "Invalid data"

}

* + Missing data within the body request

{

"user\_id": [

"This field is required."

],

"post\_id": [

"This field is required."

],

"content": [

"This field is required."

]

}

## **Follow**

### **Follow User**

#### Request

* URL: /follow\_user/
* Method: POST
* Headers:
  + Authorization: Bearer your\_access\_token
  + Content-Type: application/json
* Request Body:

{

"following\_id": 2

}

#### Response

* Success Response (201 Created):

{

"details": " Following process is performed successfully"

}

* Error Response (403 Forbidden):
  + None Authorization Bearer token within the sent request header

{

"detail": "User is not allowed to perform this action because the token is None."

}

* + When user has inactive token

{

"detail": "User is not allowed to perform this action because the token is inactive."

}

* Error Response(400 Bad Request):
  + Wrong following\_id

{

"details": "Invalid data"

}

* + Missing data within the body request

{

"following\_id": [

"This field is required."

]

}

* Error Response(406 Not Acceptable):
  + follower.id == following.id

{

"detail": "Can’t follow yourself"

}

* + avoid race conditions.

{

"detail": "Duplicate follow is attempted."

}

## **Unfollow**

### **Unfollow User**

#### Request

* URL: /unfollow\_user/
* Method: DELETE
* Headers:
  + Authorization: Bearer your\_access\_token
* Request Body:

{

"following\_id": 2

}

#### Response

* Success Response (200 OK):

{

"details": " Unfollowing process is performed successfully"

}

* Error Response (403 Forbidden):
  + None Authorization Bearer token within the sent request header

{

"detail": "User is not allowed to perform this action because the token is None."

}

* + When user has inactive token

{

"detail": "User is not allowed to perform this action because the token is inactive."

}

* Error Response(400 Bad Request):
  + Wrong following\_id

{

"details": "Invalid data"

}

* + Missing data within the body request

{

"following\_id": [

"This field is required."

]

}

* Error Response(406 Not Acceptable):
  + follower.id == following.id

{

"detail": "Can’t unfollow yourself"

}

* + avoid race conditions.

{

"detail": "Duplicate unfollow is attempted."

}

## **Like**

### **Like Post**

#### Request

* URL: /like\_post/
* Method: POST
* Headers:
  + Authorization: Bearer your\_access\_token
  + Content-Type: application/json
* Request Body:

{

"post\_id": 1

}

#### Response

* Success Response (201 Created):

{

"details": " Like process is performed successfully"

}

* Error Response (403 Forbidden):
  + None Authorization Bearer token within the sent request header

{

"detail": "User is not allowed to perform this action because the token is None."

}

* + When user has inactive token

{

"detail": "User is not allowed to perform this action because the token is inactive."

}

* Error Response(400 Bad Request):
  + Wrong post\_id

{

"details": "Invalid data"

}

* + Missing data within the body request

{

"post\_id": [

"This field is required."

]

}

* Error Response(406 Not Acceptable):
  + avoid race conditions.

{

"detail": "Duplicate unfollow is attempted."

}

## **Unlike**

### **Unlike Post**

#### Request

## URL: /unlike\_post/

## Method: DELETE

## Headers:

## Authorization: Bearer your\_access\_token

* Request Body:

{

"post\_id": 1

}

#### Response

## Success Response (200 OK):

{

"details": " Unlike process is performed successfully"

}

* Error Response (403 Forbidden):
  + None Authorization Bearer token within the sent request header

{

"detail": "User is not allowed to perform this action because the token is None."

}

* + When user has inactive token

{

"detail": "User is not allowed to perform this action because the token is inactive."

}

* Error Response(400 Bad Request):
  + Wrong post\_id

{

"details": "Invalid data"

}

* + Missing data within the body request

{

"post\_id": [

"This field is required."

]

}

* Error Response(406 Not Acceptable):
  + avoid race conditions.

{

"detail": "Duplicate unfollow is attempted."

}

## **Logout**

### **Logout**

#### Request

* URL: /logout/
* Method: POST
* Headers:
  + Authorization: Bearer your\_access\_token
* No Body Request:

#### Response

## Success Response (200 OK):

{

"details": " Successfully logged out."

}

* Error Response (403 Forbidden):
  + None Authorization Bearer token within the sent request header

{

"detail": "User is not allowed to perform this action because the token is None."

}

* + When user has inactive token

{

"detail": "User is not allowed to perform this action because the token is inactive."

}

* Error Response(400 Bad Request):

{

"details": "Invalid data"

}

## **Notes:-**

### **Run Celery, Celery beat, Redis**

redis-server

celery --app=social\_network.celery.celery\_app worker --loglevel=info  
celery --app=social\_network.celery.celery\_app beat --loglevel=info  
  
**Run Pytest Unit Tests**

pytest -s - -disable-warnings