

Telemedicine: API Integration Documentation

JWT Authentication Integration Guide

Overview

This guide provides instructions for integrating JWT token authentication into your project. You will learn how to obtain tokens from the authentication server and use them to access protected resources.

API Endpoints

1. Obtain Token

Use this endpoint to get the access and refresh tokens by providing user credentials.

Endpoint:

```
POST /v1/api/integrate/api/token/
```

Request:

```
curl --location 'https://clinkio.com/v1/api/integrate/api/token/' \
--data-raw '{
  "email": "demohospital1@yopmail.com",
  "password": "Admin@123"
}'
```

Response:

```
{
  "refresh": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2b2"
```

```
t1bl90eXBlIjoicmVmcmVzaCI6MTcxODQyODY1OCwiaWF0IjoxNzE4MzQyMjU4LCJqdGkiOiIyZGQ4MjAxMmZiMjg0MDQzYWNmNDRkZTNjMGZjOGIzOSIsInVzZXJfawQiOjQ1fQ.eM4P3nkUZH2Cit07zae3ICMhE_CH0ItHV0CxVqZlv48",
  "access": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1bl90eXBlIjoicmVmcmVzaCI6MTcxODQyODY1OCwiaWF0IjoxNzE4MzQyMjU4LCJqdGkiOiIyZGQ4MjAxMmZiMjg0MDQzYWNmNDRkZTNjMGZjOGIzOSIsInVzZXJfawQiOjQ1fQ.eM4P3nkUZH2Cit07zae3ICMhE_CH0ItHV0CxVqZlv48"
}
```

2. Refresh Token

Use this endpoint to obtain a new access token using the refresh token.

Endpoint:

```
POST /v1/api/integrate/api/token/refresh/
```

Request:

```
curl --location 'https://clinicio.com/v1/api/integrate/api/token/refresh/' \
--data-raw '{
  "refresh": "your_refresh_token_here"
}'
```

Response:

```
{
  "access": "new_access_token_here"
}
```

3. Access Protected Endpoints

Use the access token to access protected endpoints. Include the token in the Authorization header of your requests.

Request:

```
curl --location 'https://clinikio.com/v1/api/integrate/some-protected-endpoint/' \
--header 'Authorization: Bearer your_access_token_here'
```

Response:

```
{
  "data": "protected_data_here"
}
```

Example Integration

General Steps for Integration

1. **Obtain Tokens:** Make a POST request to `/v1/api/integrate/api/token/` with the user's email and password to get the access and refresh tokens.
2. **Store Tokens:** Store the access and refresh tokens securely on the client-side.
3. **Access Protected Resources:** Include the access token in the Authorization header of your requests to protected endpoints.
4. **Refresh Token:** When the access token expires, use the refresh token to obtain a new access token by making a POST request to `/v1/api/integrate/api/token/refresh/`.

Example Code Snippets

Python Example Using `requests`

```
import requests

# Obtain tokens
```

```

response = requests.post('https://clinikio.com/v1/api/integrate/api/token/', json={
    'email': 'demohospital1@yopmail.com',
    'password': 'Admin@123'
})

tokens = response.json()
access_token = tokens['access']
refresh_token = tokens['refresh']

# Use access token to access a protected endpoint
headers = {
    'Authorization': f'Bearer {access_token}'
}

response = requests.get('https://clinikio.com/v1/api/integrate/some-protected-endpoint/', headers=headers)
protected_data = response.json()
print(protected_data)

# Refresh the access token
response = requests.post('https://clinikio.com/v1/api/integrate/api/token/refresh/', json={
    'refresh': refresh_token
})

new_access_token = response.json()['access']
headers['Authorization'] = f'Bearer {new_access_token}'

response = requests.get('https://clinikio.com/v1/api/integrate/some-protected-endpoint/', headers=headers)
new_protected_data = response.json()
print(new_protected_data)

```

JavaScript Example Using `fetch`

```

async function authenticate() {
  const response = await fetch('https://clinikio.com/v1/api/integrate/api/token/', {
    method: 'POST',
    headers: {
      'Content-Type': 'application/json'
    },
    body: JSON.stringify({
      email: 'demohospital1@yopmail.com',
      password: 'Admin@123'
    })
  });

  const tokens = await response.json();
  const accessToken = tokens.access;
  const refreshToken = tokens.refresh;

  return { accessToken, refreshToken };
}

async function accessProtectedData(accessToken) {
  const response = await fetch('https://clinikio.com/v1/api/integrate/some-protected-endpoint/', {
    method: 'GET',
    headers: {
      'Authorization': `Bearer ${accessToken}`
    }
  });

  const data = await response.json();
  return data;
}

async function refreshAccessToken(refreshToken) {
  const response = await fetch('https://clinikio.com/v1/api/integrate/api/token/refresh/', {
    method: 'POST',
    headers: {

```

```

        'Content-Type': 'application/json'
    },
    body: JSON.stringify({
        refresh: refreshToken
    })
});

const newTokens = await response.json();
return newTokens.access;
}

(async () => {
    const { accessToken, refreshToken } = await authenticate();
    let protectedData = await accessProtectedData(accessToken);
    console.log('Protected Data:', protectedData);

    // Refresh the access token
    const newAccessToken = await refreshAccessToken(refreshToken);
    protectedData = await accessProtectedData(newAccessToken);
    console.log('Protected Data with New Access Token:', protectedData);
})();

```

Example Workflow

1. Obtain Tokens:

- The client application sends a POST request with the user's credentials to obtain the access and refresh tokens.

2. Store Tokens:

- The client securely stores the access and refresh tokens.

3. Access Protected Endpoints:

- The client includes the access token in the Authorization header of requests to access protected resources.

4. Refresh Token:

- When the access token expires, the client uses the refresh token to obtain a new access token and continues accessing protected resources.

1. Hospital Staff

List/Create Hospital Staff

- **URL:** `/api/hospitalstaff/`
- **Methods:** `GET`, `POST`
- **Description:** Get a list of hospital staff or create a new hospital staff member.

GET Request

Request Example

```
GET /api/hospitalstaff/  
Authorization: Bearer <JWT_TOKEN>
```

Response Example

```
[  
  {  
    "id": 1,  
    "name": "Dr. John Doe",  
    "is_doctor": true,  
    "department": "Cardiology"  
  },  
  ...  
]
```

```
]
```

POST Request

Request Example

```
{  
  "name": "Dr. Jane Smith",  
  "is_doctor": true,  
  "department": "Neurology"  
}
```

Response Example

```
{  
  "id": 2,  
  "name": "Dr. Jane Smith",  
  "is_doctor": true,  
  "department": "Neurology"  
}
```

Curl Example

```
curl -X GET "http://clinkio.com/v1/api/integrate/api/hospitalstaff/" -H "Authorization: Bearer <JWT_TOKEN>"
```

```
curl -X POST "http://clinkio.com/v1/api/integrate/api/hospitalstaff/" -H "Authorization: Bearer <JWT_TOKEN>" -H "Content-Type: application/json" -d '{  
  "name": "Dr. Jane Smith",  
  "is_doctor": true,  
  "department": "Neurology"  
'
```


Retrieve/Update/Delete Hospital Staff

- **URL:** `/api/hospitalstaff/<int:pk>/`
- **Methods:** `GET`, `PUT`, `PATCH`, `DELETE`
- **Description:** Retrieve, update, or delete a specific hospital staff member.

GET Request

Request Example

```
GET /api/hospitalstaff/1/  
Authorization: Bearer <JWT_TOKEN>
```

Response Example

```
{  
  "id": 1,  
  "name": "Dr. John Doe",  
  "is_doctor": true,  
  "department": "Cardiology"  
}
```

Curl Example

```
curl -X GET "http://clinkio.com/v1/api/integrate/api/hospitalstaff/1/" -H "Authorization: Bearer <JWT_TOKEN>"
```

2. Doctor Clinics

List Doctor Clinics

- **URL:** `/api/doctor-clinics/<int:doctor_id>/`
- **Methods:** `GET`
- **Description:** Get a list of clinics associated with a specific doctor.

GET Request

Request Example

```
GET /api/doctor-clinics/1/  
Authorization: Bearer <JWT_TOKEN>
```

Response Example

```
[  
  {  
    "id": 1,  
    "name": "City Clinic",  
    "address": "123 Main St"  
  },  
  ...  
]
```

Curl Example

```
curl -X GET "http://clinkio.com/v1/api/integrate/api/docto  
r-clinics/1/" -H "Authorization: Bearer <JWT_TOKEN>"
```

3. Clinic Appointment Slots

List Clinic Appointment Slots

- **URL:** `/api/clinic-appointment-slots/`
- **Methods:** `GET`
- **Description:** Get a list of appointment slots for a specific clinic.

GET Request

Request Example

```
GET /api/clinic-appointment-slots/?clinic_id=1  
Authorization: Bearer <JWT_TOKEN>
```

Response Example

```
[
  {
    "id": 1,
    "date": "2024-06-20",
    "start_time": "11:13:00",
    "end_time": "11:19:00",
    "clinic": 1
  },
  ...
]
```

Curl Example

```
curl -X GET "http://clinkio.com/v1/api/integrate/api/clinic-appointment-slots/?clinic_id=1" -H "Authorization: Bearer <JWT_TOKEN>"
```

Create Clinic Appointment Slot

- **URL:** `/api/create-appointment-slot/`
- **Methods:** `POST`
- **Description:** Create a new appointment slot for a clinic.

POST Request

Request Example

```
{
  "date": "2024-06-20",
  "start_time": "11:13:00",
  "end_time": "11:19:00",
  "clinic": 1
}
```

```
}
```

Response Example

```
{  
  "id": 2,  
  "date": "2024-06-20",  
  "start_time": "11:13:00",  
  "end_time": "11:19:00",  
  "clinic": 1  
}
```

Curl Example

```
curl -X POST "http://clinkio.com/v1/api/integrate/api/create-appointment-slot/" -H "Authorization: Bearer <JWT_TOKEN >" -H "Content-Type: application/json" -d '{  
  "date": "2024-06-20",  
  "start_time": "11:13:00",  
  "end_time": "11:19:00",  
  "clinic": 1  
}'
```

4. Hospital Call Requests

List/Create Hospital Call Requests

- **URL:** `/api/hospital-call-requests/`
- **Methods:** `GET`, `POST`
- **Description:** Get a list of hospital call requests or create a new call request.

GET Request

Request Example

```
GET /api/hospital-call-requests/  
Authorization: Bearer <JWT_TOKEN>
```

Response Example

```
[  
  {  
    "id": 1,  
    "request_date": "2024-06-18",  
    "doctor": {  
      "id": 1,  
      "name": "Dr. John Doe"  
    }  
  },  
  ...  
]
```

POST Request

Request Example

```
{  
  "request_date": "2024-06-19",  
  "doctor": 1  
}
```

Response Example

```
{  
  "id": 2,  
  "request_date": "2024-06-19",  
  "doctor": 1  
}
```

Curl Example

```
curl -X GET "http://clinkio.com/v1/api/integrate/api/hospital-call-requests/" -H "Authorization: Bearer <JWT_TOKEN>"
```

```
curl -X POST "http://clinkio.com/v1/api/integrate/api/hospital-call-requests/" -H "Authorization: Bearer <JWT_TOKEN>" -H "Content-Type: application/json" -d '{
  "request_date": "2024-06-19",
  "doctor": 1
}'
```

5. Hospital Staff Department

List/Create Hospital Staff Department

- **URL:** `/api/hospitalstaffdepartment/`
- **Methods:** `GET`, `POST`
- **Description:** Get a list of hospital staff departments or create a new department.

GET Request

Request Example

```
GET /api/hospitalstaffdepartment/
Authorization: Bearer <JWT_TOKEN>
```

Response Example

```
[
  {
    "id": 1,
    "name": "Cardiology"
  },
]
```

```
    ...  
  ]
```

POST Request

Request Example

```
{  
  "name": "Neurology"  
}
```

Response Example

```
{  
  "id": 2,  
  "name": "Neurology"  
}
```

Curl Example

```
curl -X GET "http://clinikio.com/v1/api/integrate/api/hospitalstaffdepartment/" -H "Authorization: Bearer <JWT_TOKEN>"
```

```
curl -X POST "http://clinikio.com/v1/api/integrate/api/hospitalstaffdepartment/" -H "Authorization: Bearer <JWT_TOKEN>" -H "Content-Type: application/json" -d '{  
  "name": "Neurology"  
}'
```

Retrieve/Update/Delete Hospital Staff Department

- **URL:** `/api/hospitalstaffdepartment/<int:pk>/`
- **Methods:** `GET`, `PUT`, `PATCH`, `DELETE`

- **Description:** Retrieve, update, or delete a specific hospital staff department.

GET Request

Request Example

```
GET /api/hospitalstaffdepartment/1/  
Authorization: Bearer <JWT_TOKEN>
```

Response Example

```
jsonCopy code  
{  
  "id": 1,  
  "name": "Cardiology"  
}
```

Curl Example

```
curl -X GET "http://clinkio.com/v1/api/integrate/api/hospitalstaffdepartment/1/" -H "Authorization: Bearer <JWT_TOKEN >"
```