

Patient Management API Documentation

Base URL: /api/patients

Authorization Levels

This API uses role-based access control with the following privileges: - **editor**: Can create and view patients - **supervisor**: Can perform searches, deletions, and advanced operations

Endpoints

Create Patient

POST /

Creates a new patient record.

Required Role: editor

Query Parameters: - username (string): Username of the requesting user

Request Body:

```
{
  "firstName": "string",
  "lastName": "string",
  "dob": "date",
  "gender": "string",
  "address": "string",
  "phoneNumber": "string",
  "emergencyContact": "string",
  "emergencyContactPhone": "string"
}
```

Responses: - 201 Created: Patient created successfully json { "id": "long", "firstName": "string", "lastName": "string", "dob": "date", "gender": "string", "address": "string", "phoneNumber": "string", "emergencyContact": "string", "emergencyContactPhone": "string", "createdAt": "datetime" } - 400 Bad Request: Invalid request data - 403 Forbidden: Insufficient privileges

Get All Patients

GET /

Retrieves all patients.

Required Role: editor

Query Parameters: - username (string): Username of the requesting user

Response: 200 OK

```
[
  {
    "id": "long",
    "firstName": "string",
    "lastName": "string",
    // ... (full patient response)
  }
]
```

Get Patient by Login

GET /

Retrieves a patient's own information using their login credentials.

Request Body:

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

Responses: - 200 OK: Full patient information - 400 Bad Request: Invalid credentials - 403 Forbidden: Access denied

Delete Patient

DELETE /{patientId}

Deletes a patient record.

Required Role: supervisor

Path Parameters: - patientId (long): ID of the patient to delete

Query Parameters: - username (string): Username of the requesting user

Responses: - 204 No Content: Patient successfully deleted - 403 Forbidden: Insufficient privileges - 404 Not Found: Patient not found

Search Endpoints

Search by Last Name

GET /search/lastname

Required Role: supervisor

Query Parameters: - lastName (string): Last name to search for - username (string): Username of the requesting user

Response: 200 OK

```
[
  {
    "id": "long",
    "firstName": "string",
    "lastName": "string",
    "phoneNumber": "string"
  }
]
```

Keyword Search

GET /search/keyword

Required Role: supervisor

Query Parameters: - keyword (string): Search term - username (string): Username of the requesting user

Response: 200 OK

```
[
  {
    "id": "long",
    "firstName": "string",
    "lastName": "string",
    "dob": "date",
    "gender": "string",
    "phoneNumber": "string"
  }
]
```

Search by Age Range

GET /search/age-range

Required Role: supervisor

Query Parameters: - minAge (integer): Minimum age - maxAge (integer): Maximum age - username (string): Username of the requesting user

Response: 200 OK

```
[
  {
    "id": "long",
    "firstName": "string",
    "lastName": "string",
    "dob": "date",
    "gender": "string",
  }
]
```

```
    "phoneNumber": "string"
  }
]
```

Data Models

PatientRequest

```
{
  "firstName": "string",
  "lastName": "string",
  "dob": "date",
  "gender": "string",
  "address": "string",
  "phoneNumber": "string",
  "emergencyContact": "string",
  "emergencyContactPhone": "string"
}
```

PatientResponse

```
{
  "id": "long",
  "firstName": "string",
  "lastName": "string",
  "dob": "date",
  "gender": "string",
  "address": "string",
  "phoneNumber": "string",
  "emergencyContact": "string",
  "emergencyContactPhone": "string",
  "createdAt": "datetime"
}
```

PatientSearch

```
{
  "id": "long",
  "firstName": "string",
  "lastName": "string",
  "dob": "date",
  "gender": "string",
  "phoneNumber": "string"
}
```

PatientSummary

```
{
  "id": "long",
  "firstName": "string",
  "lastName": "string",
  "phoneNumber": "string"
}
```

Error Responses

All endpoints may return these error responses: - **400 Bad Request**: Invalid request parameters or body - **403 Forbidden**: Insufficient privileges or unauthorized access - **404 Not Found**: Requested resource not found - **500 Internal Server Error**: Server error