Privilege

Overview

This API allows users with a ("View role") permission to retrieve a complete list of all available privileges in the system.

This list is important, as the client (frontend) will need to use it to display options to the user when they perform a Create Role (POST /api/role/create) or Update Role operation.

API Specification

API	URL
GET	/api/privilege
Permission	[AuthorizeByPrivilege("View role")]

Request sample

There are no Request Body, Query Parameters, or Path Parameters. The client just sends a GET request to the URL.

Response sample

```
{
  "statusCode": 200,
  "message": "Privileges retrieved successfully.",
  "data": [
    {
      "privilegeId": 1,
```

```
      "privilegeName": "View role",
      "description": "Quyền xem thông tin vai trò"
    },
    {
      "privilegeId": 2,
      "privilegeName": "Create role",
      "description": "Quyền tạo vai trò mới"
    },
    {
      "privilegeId": 3,
      "privilegeName": "Update role",
      "description": "Quyền cập nhật vai trò"
    },
    {
      "privilegeId": 4,
      "privilegeName": "Delete role",
      "description": "Quyền xóa vai trò"
    }
  ],
  "responsedAt": "2025-10-29T11:05:00.456Z"
}
```
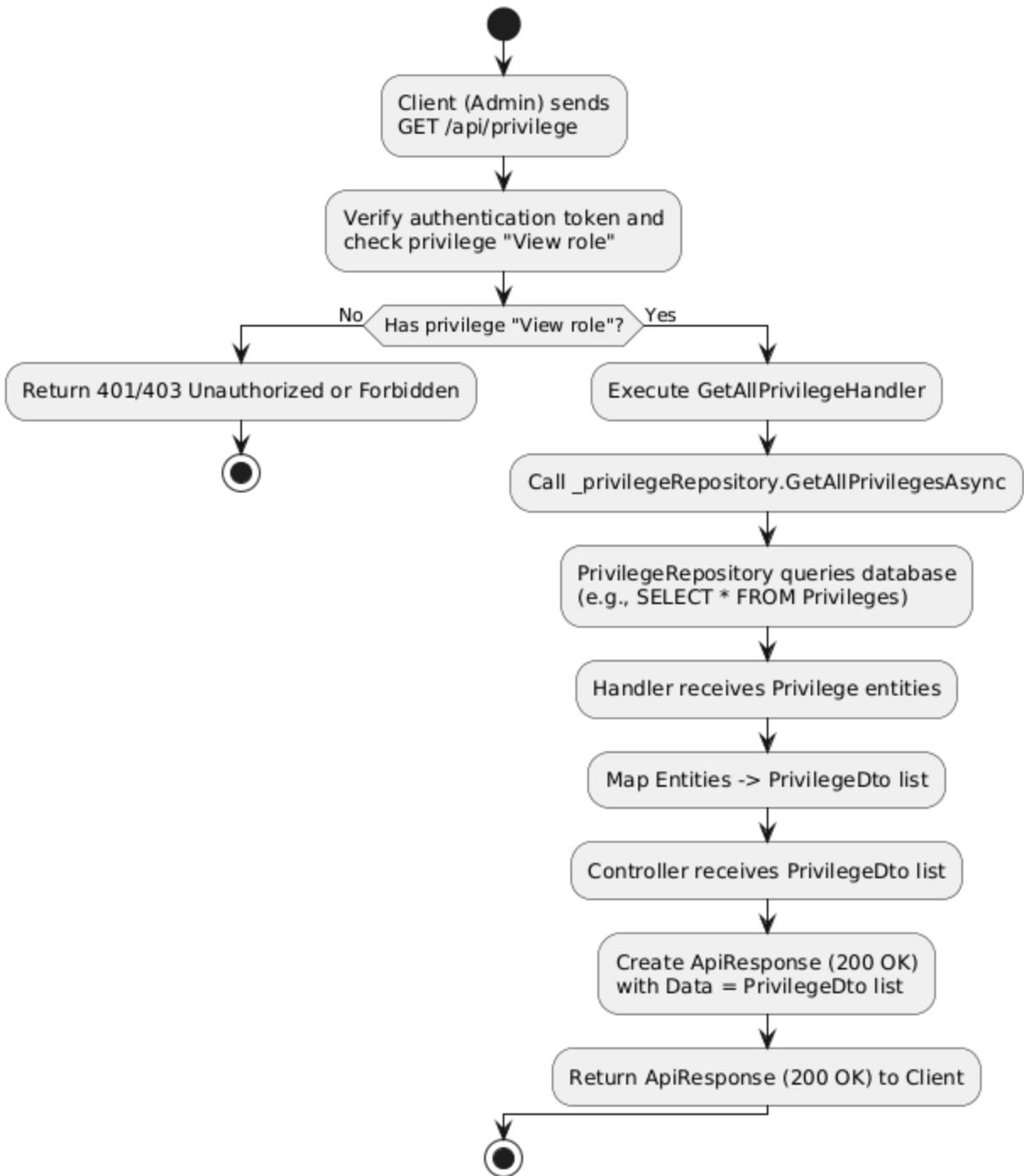
Validation

Status code	Description
401	Unauthorized. User is not logged in.
403	Forbidden. The user is logged in but does not have the "View role" permission.

Activity Diagram

Activity Diagram - Get All Privileges (GET /api/privilege)

```
                              ●
                              │
                              ▼
                  ┌───────────────────────┐
                  │  Client (Admin) sends │
                  │  GET /api/privilege   │
                  └───────────────────────┘
                              │
                              ▼
                  ┌───────────────────────┐
                  │ Verify authentication │
                  │ token and check       │
                  │ privilege "View role" │
                  └───────────────────────┘
                              │
                              ▼
          No  ◇ Has privilege "View role"? ◇  Yes
         ┌────────────────────┘         └────────────┐
         ▼                                            ▼
┌─────────────────────────────┐        ┌───────────────────────────┐
│ Return 401/403 Unauthorized │        │ Execute GetAllPrivilege   │
│ or Forbidden                │        │ Handler                   │
└─────────────────────────────┘        └───────────────────────────┘
         │                                            │
         ▼                                            ▼
         ◉                          ┌───────────────────────────────────┐
                                    │ Call _privilegeRepository.        │
                                    │ GetAllPrivilegesAsync             │
                                    └───────────────────────────────────┘
                                                     │
                                                     ▼
                                    ┌───────────────────────────────────┐
                                    │ PrivilegeRepository queries       │
                                    │ database (e.g., SELECT * FROM     │
                                    │ Privileges)                       │
                                    └───────────────────────────────────┘
                                                     │
                                                     ▼
                                    ┌───────────────────────────────────┐
                                    │ Handler receives Privilege        │
                                    │ entities                          │
                                    └───────────────────────────────────┘
                                                     │
                                                     ▼
                                    ┌───────────────────────────────────┐
                                    │ Map Entities -> PrivilegeDto list │
                                    └───────────────────────────────────┘
                                                     │
                                                     ▼
                                    ┌───────────────────────────────────┐
                                    │ Controller receives PrivilegeDto  │
                                    │ list                              │
                                    └───────────────────────────────────┘
                                                     │
                                                     ▼
                                    ┌───────────────────────────────────┐
                                    │ Create ApiResponse (200 OK)       │
                                    │ with Data = PrivilegeDto list     │
                                    └───────────────────────────────────┘
                                                     │
                                                     ▼
                                    ┌───────────────────────────────────┐
                                    │ Return ApiResponse (200 OK) to    │
                                    │ Client                            │
                                    └───────────────────────────────────┘
                                                     │
                                                     ▼
                                                     ◉
```

Sequence Diagram

```mermaid
sequenceDiagram
    participant Client
    participant PrivilegeController
    participant IMediator
    participant GetAllPrivilegeHandler
    participant IPrivilegeRepository
    participant Database

    1: Client->>PrivilegeController: GET /api/privilege
    Note: [AuthorizeByPrivilege("View role")]
    2: PrivilegeController->>IMediator: Send(GetAllPrivilegesQuery)
    3: IMediator->>GetAllPrivilegeHandler: Handle(query)
    4: GetAllPrivilegeHandler->>IPrivilegeRepository: GetAllPrivilegesAsync()
    Note: Implementation: PrivilegeRepository
    5: IPrivilegeRepository->>Database: SELECT * FROM Privileges
    6: Database-->>IPrivilegeRepository: list of Privilege entities
    7: IPrivilegeRepository-->>GetAllPrivilegeHandler: list of Privilege entities
    Note: Map entities to list of PrivilegeDto
    8: GetAllPrivilegeHandler-->>IMediator: list of PrivilegeDto
    9: IMediator-->>PrivilegeController: list of PrivilegeDto
    10: PrivilegeController->>PrivilegeController: create ApiResponse (200 OK)
    11: PrivilegeController-->>Client: 200 OK (ApiResponse with list)
```