

## API Documentation

### GET /api/ping

Simple ping endpoint to check if the server is responsive.

#### Headers:

N/A

#### URL Parameters:

N/A

#### Request Body:

N/A

#### Responses:

##### Success (200):

JSON

```
{
  "status": "pong",
  "message": "Server is running"
}
```

##### Error (500):

JSON

```
{
  "status": "error",
  "message": "Server error"
}
```

---

### POST /api/users/register

Create a new user. Requires admin privileges.

#### Headers:

Name	Purpose	Status	Example
------	---------	--------	---------

Authorization	Authentication token Required	Bearer	<JWT_TOKEN>
---------------	-------------------------------	--------	-------------

Content-Type Specify content type Required application/json

**URL Parameters:**

N/A

**Request Body:**

Format: JSON **Fields:**

Name	Type	Status	Description
first_name	string	Required	User's first name.
last_name	string	Required	User's last name.
email	string	Required	User's email address (must be unique).
contact_number	string	Required	User's contact phone number.
username	string	Required	Username (must be unique, min 4 chars).
password	string	Required	User's password (min 8 chars).
role_id	integer	Required	ID of the role to assign.
environment_id	integer	Required	ID of the environment to assign.

**Example:**

JSON

```
{
  "first_name": "John",
  "last_name": "Doe",
  "email": "john.doe@example.com",
  "contact_number": "1234567890",
  "username": "johndoe",
  "password": "securePassword123",
  "role_id": 2,
  "environment_id": 1
}
```

**Responses:**

**Success (201):**

JSON

```
{
  "message": "User created successfully",
  "user": {
    "id": 1,
    "username": "johndoe",
    "email": "john.doe@example.com",
    "first_name": "John",
    "last_name": "Doe",
    "contact_number": "1234567890",
    "role": {
      "id": 2,
      "name": "Technician",
      "description": "Technical staff",
      "is_super_user": false
    },
    "environment": {
      "id": 1,
      "name": "Default",
      "description": "Default environment"
    },
    "is_deleted": false,
    "created_at": "2025-04-27T20:05:29Z",
    "updated_at": "2025-04-27T20:05:29Z"
  }
}
```

**Error (400):**

JSON

```
{
```

```
"error": "Missing required fields | Username already exists | Email already exists | Password must be at least 8 characters long | ..."
```

```
}
```

---

## **POST /api/users/login**

Authenticate a user and receive a JWT.

### **Headers:**

<b>Name</b>	<b>Purpose</b>	<b>Status</b>	<b>Example</b>
Content-Type	Specify content type	Required	application/json

### **URL Parameters:**

N/A

### **Request Body:**

Format: JSON **Fields:**

<b>Name</b>	<b>Type</b>	<b>Status</b>	<b>Description</b>
username	string	Required	Registered username.
password	string	Required	User's password.

### **Example:**

JSON

```
{  
  "username": "johndoe",  
  "password": "securePassword123"  
}
```

### **Responses:**

#### **Success (200):**

JSON

```
{  
  "access_token": "<JWT_TOKEN>"  
}
```

#### **Error (401):**

JSON

```
{  
  "error": "Invalid credentials"  
}
```

---

### **POST /api/users/logout**

Logs out the user. Invalidates the token if possible (depends on implementation, often relies on client-side token removal).

#### **Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token (optional, aids logging)	Optional	Bearer <JWT_TOKEN>

#### **URL Parameters:**

N/A

#### **Request Body:**

N/A

#### **Responses:**

##### **Success (200):**

JSON

```
{  
  "message": "Successfully logged out",  
  "status": "success"  
}
```

**Error:** N/A (Typically designed to succeed even with invalid tokens)

---

### **GET /api/users**

Get a list of users. Filters based on user role (Admin sees all, others see users in their environment).

#### **Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

**URL Parameters:****Query Parameters:**

Name	Type	Status	Description
------	------	--------	-------------

include_deleted	boolean	Optional	Include soft-deleted users (Admin only). Default: false.
-----------------	---------	----------	--

**Request Body:**

N/A

**Responses:****Success (200):**

JSON

```
[
  {
    "id": 1,
    "username": "johndoe",
    "email": "john.doe@example.com",
    "first_name": "John",
    "last_name": "Doe",
    "contact_number": "1234567890",
    "role": {
      "id": 2,
      "name": "Technician",
      "description": "Technical staff",
      "is_super_user": false
    },
    "environment": {
      "id": 1,
      "name": "Default",
      "description": "Default environment"
    },
    "is_deleted": false,
```

```
"created_at": "2025-04-27T20:05:29Z",
"updated_at": "2025-04-27T20:05:29Z"
},
{ ... }
]
```

#### Error (500):

JSON

```
{
  "error": "Internal server error | Database error: <details>"
}
```

---

#### GET /api/users/batch

Get a paginated list of users in a compact format.

##### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

##### URL Parameters:

##### Query Parameters:

Name	Type	Status	Description
page	integer	Optional	Page number. Default: 1.
per_page	integer	Optional	Items per page. Default: 50.
include_deleted	boolean	Optional	Include soft-deleted users (Admin only). Default: false.
role_id	integer	Optional	Filter by role ID.
environment_id	integer	Optional	Filter by environment ID (Admin only, otherwise uses user's environment).

##### Request Body:

N/A

##### Responses:

**Success (200):**

JSON

```
{
  "metadata": {
    "total_items": 5,
    "total_pages": 1,
    "current_page": 1,
    "per_page": 50
  },
  "items": [
    {
      "id": 1,
      "username": "johndoe",
      "first_name": "John",
      "last_name": "Doe",
      "full_name": "John Doe",
      "email": "john.doe@example.com",
      "contact_number": "1234567890",
      "role": {
        "id": 2,
        "name": "Technician",
        "description": "Technical staff",
        "is_super_user": false
      },
      "environment": {
        "id": 1,
        "name": "Default",
        "description": "Default environment"
      }
    }
  ]
}
```



```
},
{ ... }
]
}
```

#### Error (500):

JSON

```
{
  "error": "Internal server error",
  "details": "<error_details>"
}
```

---

#### GET /api/users/compact-list

Get a list of all users with essential details (no permissions).

##### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

##### URL Parameters:

##### Query Parameters:

Name	Type	Status	Description
include_deleted	boolean	Optional	Include soft-deleted users (Admin only). Default: false.

##### Request Body:

N/A

##### Responses:

##### Success (200):

JSON

```
[
  {
    "id": 1,
    "username": "johndoe",
```

```
"first_name": "John",
"last_name": "Doe",
"full_name": "John Doe",
"email": "john.doe@example.com",
"contact_number": "1234567890",
"role": {
  "id": 2,
  "name": "Technician",
  "description": "Technical staff",
  "is_super_user": false
},
"environment": {
  "id": 1,
  "name": "Default",
  "description": "Default environment"
}
{ ... }
]
```

#### Error (500):

JSON

```
{
  "error": "Internal server error | Database error: <details>"
}
```

---

#### GET /api/users/byRole/{role\_id}

Get users belonging to a specific role.

#### Headers:

Name	Purpose	Status	Example
------	---------	--------	---------

Authorization Authentication token Required Bearer <JWT\_TOKEN>

**URL Parameters:**

**Path Parameters:**

Name	Type	Status	Description
role_id	integer	Required	ID of the role.

**Request Body:**

N/A

**Responses:**

**Success (200):**

JSON

```
[
  {
    "id": 1,
    "username": "johndoe",
    "email": "john.doe@example.com",
    "first_name": "John",
    "last_name": "Doe",
    "contact_number": "1234567890",
    "role": { ... },
    "environment": { ... }
  },
  { ... }
]
```

**Error (500):**

JSON

```
{
  "error": "Internal server error"
}
```

---

## GET /api/users/byEnvironment/{environment\_id}

Get users belonging to a specific environment.

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

### URL Parameters:

### Path Parameters:

Name	Type	Status	Description
environment_id	integer	Required	ID of the environment.

### Request Body:

N/A

### Responses:

#### Success (200):

JSON

```
[
  {
    "id": 1,
    "username": "johndoe",
    "email": "john.doe@example.com",
    ...
  },
  { ... }
]
```

#### Error (403):

JSON

```
{
  "error": "Unauthorized access to environment"
}
```

---

## GET /api/users/search

Search for users based on criteria (Admin only).

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

### URL Parameters:

### Query Parameters:

Name	Type	Status	Description
id	integer	Optional	Search by user ID.
username	string	Optional	Search by username (partial match).
role_id	integer	Optional	Search by role ID.
environment_id	integer	Optional	Search by environment ID.

### Request Body:

N/A

### Responses:

#### Success (200):

JSON

```
[
  {
    "id": 1,
    "username": "johndoe",
    ... (full user details)
  },
  { ... }
]
```

#### Error (403):

JSON

```
{
```

```
"error": "Unauthorized"
}
```

---

## GET /api/users/{user\_id}

Get details for a specific user.

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

### URL Parameters:

#### Path Parameters:

Name	Type	Status	Description
user_id	integer	Required	ID of the user.

### Request Body:

N/A

### Responses:

#### Success (200):

JSON

```
{
  "id": 1,
  "username": "johndoe",
  "email": "john.doe@example.com",
  "first_name": "John",
  "last_name": "Doe",
  "contact_number": "1234567890",
  "role": { ... },
  "environment": { ... },
  "permissions": [ "perm1", "perm2", ... ],
  "is_deleted": false,
  "created_at": "...",
```

```
"updated_at": "..."  
}
```

#### Error (404):

JSON

```
{  
  "error": "User not found"  
}
```

---

#### PUT /api/users/{user\_id}

Update details for a specific user.

##### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

##### URL Parameters:

##### Path Parameters:

Name	Type	Status	Description
user_id	integer	Required	ID of the user to update.

##### Request Body:

Format: JSON **Fields:**

Name	Type	Status	Description
first_name	string	Optional	User's first name.
last_name	string	Optional	User's last name.
email	string	Optional	User's email address (must be unique).
contact_number	string	Optional	User's contact phone number.
password	string	Optional	New password (min 8 chars).
username	string	Optional	Username (Admin only, must be unique, min 4 chars).

role\_id integer Optional ID of the role to assign (Admin only).

environment\_id integer Optional ID of the environment to assign (Admin only).

**Example:**

JSON

```
{
  "first_name": "Jonathan",
  "email": "jonathan.doe@example.com",
  "password": "newSecurePassword456"
}
```

**Responses:**

**Success (200):**

JSON

```
{
  "message": "User updated successfully",
  "user": { ... (updated user details) }
}
```

**Error (400):**

JSON

```
{
  "error": "Username already exists | Email already exists | Invalid role_id | ..."
}
```

---

**DELETE /api/users/{user\_id}**

Soft delete a user and associated data.

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

**URL Parameters:**

**Path Parameters:**



Name	Type	Status	Description
------	------	--------	-------------

user_id	integer	Required	ID of the user to delete.
---------	---------	----------	---------------------------

**Request Body:**

N/A

**Responses:**

**Success (200):**

JSON

```
{  
  "message": "User and all associated data deleted successfully",  
  "deleted_items": {  
    "user": 1,  
    "forms_created": 0,  
    "form_submissions": 5,  
    "answers_submitted": 25,  
    "attachments": 3  
  }  
}
```

**Error (404):**

JSON

```
{  
  "error": "User not found"  
}
```

---

**GET /api/users/current**

Get details of the currently authenticated user.

**Headers:**

Name	Purpose	Status	Example
------	---------	--------	---------

Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
---------------	----------------------	----------	--------------------

**URL Parameters:**

N/A

**Request Body:**

N/A

**Responses:**

**Success (200):**

JSON

```
{
  "id": 1,
  "username": "johndoe",
  "email": "john.doe@example.com",
  ... (full user details including permissions)
}
```

**Error (404):**

JSON

```
{
  "error": "User not found"
}
```

---

**POST /api/roles**

Create a new role (Admin only).

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

**URL Parameters:**

N/A

**Request Body:**

Format: JSON **Fields:**

Name	Type	Status	Description
name	string	Required	Name of the role (must be unique).
description	string	Optional	Description of the role.
is_super_user	boolean	Optional	Whether this is a super user role (default: false).

**Example:**

JSON

```
{
  "name": "Editor",
  "description": "Can edit content",
  "is_super_user": false
}
```

**Responses:**

**Success (201):**

JSON

```
{
  "message": "Role created successfully",
  "role": {
    "id": 3,
    "name": "Editor",
    "description": "Can edit content",
    "is_super_user": false,
    "is_deleted": false,
    "created_at": "...",
    "updated_at": "..."
  }
}
```

**Error (400):**

JSON

```
{
```

```
"error": "Name is required | Role name already exists"
}
```

---

## GET /api/roles

Get a list of roles. Non-admins cannot see super user roles.

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

### URL Parameters:

N/A

### Request Body:

N/A

### Responses:

#### Success (200):

JSON

```
[
  {
    "id": 1,
    "name": "Admin",
    "description": "Full system administrator",
    "is_super_user": true,
    ...
  },
  {
    "id": 2,
    "name": "Technician",
    "description": "Technical staff",
    "is_super_user": false,
    ...
  }
]
```

```
}  
]
```

**Error (500):**

JSON

```
{  
  "error": "Internal server error"  
}
```

---

**GET /api/roles/batch**

Get a paginated list of roles.

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

**URL Parameters:****Query Parameters:**

Name	Type	Status	Description
page	integer	Optional	Page number. Default: 1.
per_page	integer	Optional	Items per page. Default: 50.
include_deleted	boolean	Optional	Include soft-deleted roles (Admin only). Default: false.
is_super_user	boolean	Optional	Filter by super user status.

**Request Body:**

N/A

**Responses:****Success (200):**

JSON

```
{  
  "metadata": { ... },  
  "items": [  
    {  
      "id": 1,  
      "name": "Admin",  
      "status": "Active",  
      "created_at": "2020-01-01T00:00:00Z",  
      "updated_at": "2020-01-01T00:00:00Z"  
    },  
    {  
      "id": 2,  
      "name": "User",  
      "status": "Active",  
      "created_at": "2020-01-01T00:00:00Z",  
      "updated_at": "2020-01-01T00:00:00Z"  
    },  
    {  
      "id": 3,  
      "name": "Guest",  
      "status": "Inactive",  
      "created_at": "2020-01-01T00:00:00Z",  
      "updated_at": "2020-01-01T00:00:00Z"  
    }  
  ]  
}
```

```
{
  "id": 1,
  "name": "Admin",
  ...
},
{ ... }
]
```

#### Error (500):

JSON

```
{
  "error": "Internal server error",
  "details": "<error_details>"
}
```

---

#### GET /api/roles/{role\_id}

Get details for a specific role.

##### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

##### URL Parameters:

##### Path Parameters:

Name	Type	Status	Description
role_id	integer	Required	ID of the role.

##### Request Body:

N/A

##### Responses:

##### Success (200):

JSON

```
{
  "id": 2,
  "name": "Technician",
  "description": "Technical staff",
  "is_super_user": false,
  ...
}
```

#### Error (404):

JSON

```
{
  "error": "Role not found"
}
```

---

#### PUT /api/roles/{role\_id}

Update a role (Admin only). Cannot modify the main Admin role.

##### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

##### URL Parameters:

##### Path Parameters:

Name	Type	Status	Description
role_id	integer	Required	ID of the role to update.

##### Request Body:

Format: JSON **Fields:**

Name	Type	Status	Description
name	string	Optional	New name for the role (must be unique).
description	string	Optional	New description for the role.

is\_super\_user boolean Optional Set super user status.

**Example:**

JSON

```
{  
  "description": "Staff performing technical duties"  
}
```

**Responses:**

**Success (200):**

JSON

```
{  
  "message": "Role updated successfully",  
  "role": { ... (updated role details) }  
}
```

**Error (403):**

JSON

```
{  
  "error": "Cannot modify the main administrator role"  
}
```

---

**DELETE /api/roles/{role\_id}**

Soft delete a role (Admin only). Cannot delete the main Admin role or roles with active users.

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

**URL Parameters:**

**Path Parameters:**

Name	Type	Status	Description
role_id	integer	Required	ID of the role to delete.



**Request Body:**

N/A

**Responses:****Success (200):**

JSON

```
{  
  "message": "Role and associated permissions deleted successfully"  
}
```

**Error (400):**

JSON

```
{  
  "error": "Cannot delete role with active users",  
  "role": { ... },  
  "active_users": {  
    "count": 2,  
    "users": [ { ... }, { ... } ]  
  },  
  "suggestion": "Please reassign or deactivate these users before deleting this role"  
}
```

---

**DELETE /api/roles/{role\_id}/permissions/{permission\_id}**

Remove a specific permission from a role (Admin only). Cannot modify the main Admin role.

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

**URL Parameters:****Path Parameters:**

Name	Type	Status	Description
------	------	--------	-------------

role\_id integer Required ID of the role.

permission\_id integer Required ID of the permission to remove.

**Request Body:**

N/A

**Responses:**

**Success (200):**

JSON

```
{  
  "message": "Permission removed from role successfully"  
}
```

**Error (400):**

JSON

```
{  
  "error": "Failed to remove permission from role"  
}
```

---

**POST /api/forms**

Create a new form.

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

**URL Parameters:**

N/A

**Request Body:**

Format: JSON **Fields:**

Name	Type	Status	Description
title	string	Required	Title of the form.

description string Optional Description of the form.

is\_public boolean Optional Whether the form is public (default: false).

user\_id integer Optional ID of the user to assign as creator (Admin only). Defaults to current user.

**Example:**

JSON

```
{
  "title": "Daily Safety Check",
  "description": "Checklist for daily equipment safety",
  "is_public": false
}
```

**Responses:**

**Success (201):**

JSON

```
{
  "message": "Form created successfully",
  "form": {
    "id": 1,
    "title": "Daily Safety Check",
    "description": "Checklist for daily equipment safety",
    "is_public": false,
    "created_by": { ... },
    "questions": [],
    "is_deleted": false,
    "created_at": "...",
    "updated_at": "..."
  },
  "form_creator": "current_username"
}
```

**Error (400):**

JSON

```
{  
  "error": "Missing required fields | Form title already exists | ..."  
}
```

---

**GET /api/forms**

Get a list of forms accessible to the user.

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

**URL Parameters:**

N/A

**Request Body:**

N/A

**Responses:****Success (200):**

JSON

```
[  
  {  
    "id": 1,  
    "title": "Daily Safety Check",  
    "description": "...",  
    "is_public": false,  
    "created_by": { ... },  
    "questions": [ { ... }, ... ],  
    ...  
  },  
  { ... }  
]
```

```
]
```

#### Error (500):

JSON

```
{  
  "error": "Internal server error"  
}
```

---

#### GET /api/forms/batch

Get a paginated list of forms with filtering options.

##### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

##### URL Parameters:

##### Query Parameters:

Name	Type	Status	Description
page	integer	Optional	Page number. Default: 1.
per_page	integer	Optional	Items per page. Default: 50.
include_deleted	boolean	Optional	Include soft-deleted forms (Admin only). Default: false.
is_public	boolean	Optional	Filter by public status.
user_id	integer	Optional	Filter by creator user ID.
environment_id	integer	Optional	Filter by environment ID (Admin only).
only_editable	boolean	Optional	Return only forms editable by the user. Default: false.

##### Request Body:

N/A

##### Responses:

##### Success (200):

JSON

```
{
```

```
"metadata": { ... },
"items": [
  {
    "id": 1,
    "title": "Daily Safety Check",
    ... (compact form details)
  },
  { ... }
]
}
```

#### Error (500):

JSON

```
{
  "error": "Internal server error",
  "details": "<error_details>"
}
```

---

#### GET /api/forms/{form\_id}

Get details for a specific form.

##### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

##### URL Parameters:

##### Path Parameters:

Name	Type	Status	Description
form_id	integer	Required	ID of the form.

##### Request Body:

N/A

##### Responses:

**Success (200):**

JSON

```
{
  "id": 1,
  "title": "Daily Safety Check",
  "description": "...",
  "is_public": false,
  "created_by": { ... },
  "questions": [
    {
      "id": 1,
      "form_question_id": 101,
      "text": "Is equipment powered off?",
      "type": "checkbox",
      "order_number": 1,
      "remarks": null,
      "possible_answers": [ { "id": 1, "form_answer_id": 201, "value": "Yes" }, { "id": 2, "form_answer_id": 202, "value": "No" } ]
    },
    { ... }
  ],
  "is_deleted": false,
  "created_at": "...",
  "updated_at": "..."
}
```

**Error (404):**

JSON

```
{
  "error": "Form not found"
}
```

---

## POST /api/forms/{form\_id}/questions

Add multiple questions to an existing form.

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

### URL Parameters:

### Path Parameters:

Name	Type	Status	Description
form_id	integer	Required	ID of the form to add questions to.

### Request Body:

Format: JSON **Fields:**

Name	Type	Status	Description
questions	array	Required	List of question objects to add.

### Example:

JSON

```
{
  "questions": [
    { "question_id": 15, "order_number": 3 },
    { "question_id": 22, "order_number": 4 }
  ]
}
```

### Responses:

#### Success (200):

JSON

```
{
  "message": "Questions added successfully",
}
```



```
"form": { ... (updated form details including new questions) }  
}
```

#### **Error (400):**

JSON

```
{  
  "error": "Questions are required | Invalid question ID | ..."  
}
```

---

#### **POST /api/form-submissions**

Submit answers for a specific form.

##### **Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json or multipart/form-data if signatures are included

##### **URL Parameters:**

N/A

##### **Request Body:**

Format: JSON (potentially multipart/form-data) **Fields:**

Name	Type	Status	Description
form_id	integer	Required	ID of the form being submitted.
submitted_at	string	Optional	Timestamp of submission in ISO format (YYYY-MM-DDTHH:MM:SS). Defaults to server time.
answers	array	Required	List of answers submitted.

##### **Example:**

JSON

```
{  
  "form_id": 1,
```

```
"answers": [  
  {  
    "question_id": 5,  
    "answer_text": "Yes",  
    "question_type_text": "checkbox"  
  },  
  {  
    "question_id": 6,  
    "answer_text": "Checked all safety guards.",  
    "question_type_text": "text"  
  },  
  {  
    "question_id": 7,  
    "answer_text": "Signature data or reference",  
    "question_type_text": "signature",  
    "is_signature": true  
  }  
]  
}
```

#### **Responses:**

#### **Success (201):**

JSON

```
{  
  "message": "Form submitted successfully",  
  "submission": {  
    "id": 101,  
    "form_id": 1,  
    "submitted_by": "current_username",  
    "submitted_at": "...",  
  }  
}
```

```
"answers_submitted": [ ... ],
"attachments": [ ... ],
...
}
}
```

#### Error (400):

JSON

```
{
  "error": "form_id is required | Invalid answer data | ..."
}
```

---

#### POST /api/answers-submitted

Create a single submitted answer record. Typically used internally by form submission.

#### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

#### URL Parameters:

N/A

#### Request Body:

Format: JSON **Fields:**

Name	Type	Status	Description
form_submission_id	integer	Required	ID of the parent form submission.
question_text	string	Required	Text of the question at the time of submission.
question_type_text	string	Required	Type of the question (e.g., 'text', 'table').
answer_text	string	Required	Answer provided by the user.
column	integer	Conditional	Column index (required if question_type_text is 'table').

row integer Conditional Row index (required if question\_type\_text is 'table').

cell\_content string Optional Content for table cells.

**Example:**

JSON

```
{
  "form_submission_id": 101,
  "question_text": "Is equipment powered off?",
  "question_type_text": "checkbox",
  "answer_text": "Yes"
}
```

**Responses:**

**Success (201):**

JSON

```
{
  "message": "Answer submitted successfully",
  "answer_submitted": {
    "id": 501,
    "form_submission_id": 101,
    "question": "Is equipment powered off?",
    "question_type": "checkbox",
    "answer": "Yes",
    "column": null,
    "row": null,
    "cell_content": null,
    ...
  }
}
```

**Error (400):**

JSON

```
{  
  "error": "Missing required fields | Column and row are required for table-type questions | ..."  
}
```

---

## POST /api/answers-submitted/bulk

Create multiple submitted answer records for a single form submission. Typically used internally.

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

### URL Parameters:

N/A

### Request Body:

Format: JSON **Fields:**

Name	Type	Status	Description
form_submission_id	integer	Required	ID of the parent form submission.
submissions	array	Required	List of submitted answers.

### Example:

JSON

```
{  
  "form_submission_id": 101,  
  "submissions": [  
    { "question_text": "Q1?", "question_type_text": "text", "answer_text": "Ans1" },  
    { "question_text": "Q2?", "question_type_text": "table", "answer_text": "CellVal", "column": 0, "row": 1,  
      "cell_content": "Cell Value" }  
  ]  
}
```

### Responses:

#### Success (201):

JSON

```
{
  "message": "Answers submitted successfully",
  "submissions": [{ ... }, { ... } ]
}
```

**Error (400):**

JSON

```
{
  "error": "Missing required fields: form_submission_id and submissions | Each submission must contain required fields | ..."
}
```

---

**POST /api/attachments**

Upload an attachment (file or signature) linked to a form submission.

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	multipart/form-data

**URL Parameters:**

N/A

**Request Body:**

Format: Form Data **Fields:**

Name	Type	Status	Description
form_submission_id	integer	Required	ID of the form submission to link to.
file	file	Required	The file to upload.
is_signature	boolean	Optional	Set to 'true' if the file is a signature image. Default: false.
answer_submitted_id	integer	Conditional	ID of the AnswerSubmitted record this signature relates to (if is_signature=true).

signature\_position    string    Optional    Position/identifier for the signature (e.g., 'Completed By').

signature\_author    string    Optional    Name of the person who signed.

**Example:** N/A (Form data)

**Responses:**

**Success (201):**

JSON

```
{
  "message": "Attachment created successfully",
  "attachment": {
    "id": 301,
    "form_submission_id": 101,
    "filename": "signature_john_doe.png",
    "file_path": "uploads/submission_101/signature_john_doe_timestamp.png",
    "file_type": "image/png",
    "is_signature": true,
    "answer_submitted_id": 505,
    "signature_position": "Completed By",
    "signature_author": "John Doe",
    ...
  }
}
```

**Error (400):**

JSON

```
{
  "error": "form_submission_id is required | No file provided | Invalid file type | ..."
}
```

---

**POST /api/attachments/bulk**

Upload multiple attachments for a single form submission.

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	multipart/form-data

### URL Parameters:

N/A

### Request Body:

Format: Form Data **Fields:**

Name	Type	Status	Description
form_submission_id	integer	Required	ID of the form submission.
file<N>;	file	Required	File upload field (e.g., file1, file2).
is_signature<N>;	boolean	Optional	Indicates if file<N>; is a signature.
answer_submitted_id<N>;	integer	Conditional	Answer ID for signature<N>;.
signature_position<N>;	string	Optional	Position for signature<N>;.
signature_author<N>;	string	Optional	Author for signature<N>;.

**Example:** N/A (Form data with multiple file fields like file1, file2, etc.)

### Responses:

#### Success (201):

JSON

```
{
  "message": "Attachments created successfully",
  "attachments": [ { ... }, { ... } ]
}
```

#### Error (400):

JSON

```
{
  "error": "form_submission_id is required | No files provided | ..."
}
```



---

### GET /api/attachments/{attachment\_id}

Download a specific attachment file.

#### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

#### URL Parameters:

#### Path Parameters:

Name	Type	Status	Description
attachment_id	integer	Required	ID of the attachment to download.

#### Request Body:

N/A

#### Responses:

**Success (200):** File content (e.g., image/png, application/pdf) **Error (404):**

JSON

```
{  
  "error": "File not found"  
}
```

---

### GET /api/export/form/{form\_id}

Export a form structure (questions, possible answers) to PDF or DOCX.

#### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

#### URL Parameters:

#### Path Parameters:

Name	Type	Status	Description
form_id	integer	Required	ID of the form to export.

### Query Parameters:

Name	Type	Status	Description
format	string	Optional	Export format ('PDF' or 'DOCX'). Default: PDF.
page_size	string	Optional	Page size ('A4', 'LETTER', 'LEGAL'). Default: LETTER.
margin_top	float	Optional	Top margin in inches. Default: 1.0.
margin_bottom	float	Optional	Bottom margin in inches. Default: 1.0.
margin_left	float	Optional	Left margin in inches. Default: 1.0.
margin_right	float	Optional	Right margin in inches. Default: 1.0.
line_spacing	float	Optional	Line spacing multiplier. Default: 1.15.
font_size	integer	Optional	Base font size in points. Default: 12.
logo_path	string	Optional	Server path to a logo image (PNG/JPG).
signature_count	integer	Optional	Number of signature lines (1-5). Default: 2.
signature<N>_title	string	Optional	Title for signature line N (e.g., 'signature1_title').
signature<N>_name	string	Optional	Pre-filled name for signature line N.
signature<N>_date	boolean	Optional	Include date field for signature line N. Default: true.
signature_space_before	float	Optional	Space before signature section (points). Default: 20.
signature_space_between	float	Optional	Space between signatures (points). Default: 10.
signature_space_date	float	Optional	Space after date field (points). Default: 5.
signature_space_after	float	Optional	Space after signature section (points). Default: 20.

### Request Body:

N/A

### Responses:

**Success (200):** File content (application/pdf or application/vnd.openxmlformats-officedocument.wordprocessingml.document) **Error (400):**

JSON

```
{  
  "error": "Invalid format | Logo file not found | Error generating export: <details>"  
}
```

```
}
```

---

### GET /api/export/formats

Get the list of supported export formats.

#### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

#### URL Parameters:

N/A

#### Request Body:

N/A

#### Responses:

##### Success (200):

JSON

```
{  
  "formats": ["PDF", "DOCX"],  
  "default": "PDF"  
}
```

Error: N/A

---

### GET /api/export/parameters

Get details about available export formatting parameters.

#### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

#### URL Parameters:

N/A

#### Request Body:

N/A

## Responses:

### Success (200):

JSON

```
{
  "parameters": {
    "page_size": { "description": "...", "values": ["A4", "LETTER", "LEGAL"], "default": "LETTER" },
    "margin_top": { "description": "...", "range": [0.1, 3.0], "default": 1.0 },
    ... (all parameters described)
  }
}
```

Error: N/A

---

## GET /api/export/form/{form\_id}/preview-params

Get formatting parameters and example URLs for exporting a specific form.

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

### URL Parameters:

#### Path Parameters:

Name	Type	Status	Description
form_id	integer	Required	ID of the form.

**Query Parameters:** Accepts same query parameters as /api/export/form/{form\_id} to show current values

### Request Body:

N/A

## Responses:

### Success (200):

JSON

```
{
```

```
"form_info": { "id": 1, "title": "...", "questions_count": 5 },
"current_parameters": { "format": "PDF", "page_size": "LETTER", ... },
"available_parameters": { ... (details of all params) },
"example_urls": { "minimal": "...", "with_basic_formatting": "...", "complete": "... " },
"notes": [ ... ]
}
```

**Error (404):**

JSON

```
{
  "error": "Form not found"
}
```

---

**GET /api/health/ping**

Simple check if the API is responsive.

**Headers:**

N/A

**URL Parameters:**

N/A

**Request Body:**

N/A

**Responses:**

**Success (200):**

JSON

```
{
  "status": "pong",
  "message": "Server is responsive"
}
```

**Error (500):**

JSON

```
{  
  "status": "error",  
  "message": "Server error"  
}
```

---

### **GET /api/health/status**

Get detailed health status including database connectivity.

#### **Headers:**

N/A

#### **URL Parameters:**

N/A

#### **Request Body:**

N/A

#### **Responses:**

**Success (200):** # or 503 if unhealthy

JSON

```
{  
  "server_status": "ok",  
  "database_status": "ok",  
  "timestamp": "...",  
  "health_status": "healthy"  
}
```

#### **Error (500):**

JSON

```
{  
  "status": "error",  
  "message": "Server error"  
}
```

---

## **POST /api/cmms-configs**

Create a new JSON configuration file in the 'configs' subfolder (Admin only).

### **Headers:**

<b>Name</b>	<b>Purpose</b>	<b>Status</b>	<b>Example</b>
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

### **URL Parameters:**

N/A

### **Request Body:**

Format: JSON **Fields:**

<b>Name</b>	<b>Type</b>	<b>Status</b>	<b>Description</b>
filename	string	Required	Filename ending in .json.
content	object	Required	JSON content for the file.

### **Example:**

JSON

```
{  
  "filename": "settings.json",  
  "content": { "theme": "dark", "notifications": true }  
}
```

### **Responses:**

#### **Success (201):**

JSON

```
{  
  "message": "Configuration file created successfully",  
  "config": {  
    "filename": "settings.json",  
    "path": "configs/settings.json",  
    "content": { "theme": "dark", "notifications": true },  
  }  
}
```

```
"created_at": "...",  
"updated_at": "..."  
}  
}
```

#### Error (400):

JSON

```
{  
  "error": "Missing required fields | Only JSON files are supported | Filename already exists | ..."  
}
```

---

#### POST /api/cmms-configs/upload

Upload a configuration file (places it in the 'configs' subfolder, Admin only).

##### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	multipart/form-data

##### URL Parameters:

N/A

##### Request Body:

Format: Form Data **Fields:**

Name	Type	Status	Description
file	file	Required	The configuration file to upload.

**Example:** N/A (Form data)

##### Responses:

##### Success (201):

JSON

```
{  
  "message": "Configuration file uploaded successfully",  
  "config": { ... (details of the uploaded config file) }
```



```
}
```

**Error (400):**

JSON

```
{
```

```
  "error": "No file provided | No selected file | File type not allowed | ..."
```

```
}
```

---

**GET /api/cmms-configs/files**

List all files within the main 'uploads' directory and its subdirectories (e.g., configs, submission attachments).

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

**URL Parameters:**

N/A

**Request Body:**

N/A

**Responses:****Success (200):**

JSON

```
{
```

```
  "message": "Files retrieved successfully",
```

```
  "files": [
```

```
    {
```

```
      "filename": "settings.json",
```

```
      "path": "configs/settings.json",
```

```
      "full_path": "/path/to/app/uploads/configs/settings.json",
```

```
      "size": 123,
```

```
      "size_formatted": "123 B",
```

```
"mime_type": "application/json",
"created_at": "...",
"modified_at": "...",
"directory": "configs"
},
{
  "filename": "report.pdf",
  "path": "submission_101/report.pdf",
  "full_path": "/path/to/app/uploads/submission_101/report.pdf",
  "size": 102400,
  "size_formatted": "100.0 KB",
  "mime_type": "application/pdf",
  "created_at": "...",
  "modified_at": "...",
  "directory": "submission_101"
},
{ ... }
],
"total_files": 2
}
```

**Error (500):**

JSON

```
{
  "error": "Internal server error"
}
```

---

**GET /api/cmms-configs/file/{filepath}**

Download a specific file from the 'uploads' directory structure using its relative path.

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

#### URL Parameters:

#### Path Parameters:

Name	Type	Status	Description
filepath	string	Required	Relative path to the file within the uploads directory (e.g., 'configs/settings.json' or 'submission_101/report.pdf').

#### Request Body:

N/A

#### Responses:

**Success (200):** File content **Error (404):**

JSON

```
{
  "error": "File not found | Invalid path"
}
```

---

#### GET /api/cmms-configs/{filename}

Load the content of a configuration file from the 'configs' subfolder.

#### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

#### URL Parameters:

#### Path Parameters:

Name	Type	Status	Description
filename	string	Required	Name of the config file in the 'configs' directory.

#### Request Body:

N/A

#### Responses:

**Success (200):**

JSON

```
{
  "filename": "settings.json",
  "path": "configs/settings.json",
  "file_type": "application/json",
  "content": { "theme": "dark", "notifications": true },
  "created_at": "...",
  "updated_at": "..."
}
```

**Error (404):**

JSON

```
{
  "error": "Configuration file not found"
}
```

---

**PUT /api/cmms-configs/configs/{filename}**

Update the content of a JSON configuration file in the 'configs' subfolder (Admin only).

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

**URL Parameters:****Path Parameters:**

Name	Type	Status	Description
filename	string	Required	Name of the config file to update.

**Request Body:**

Format: JSON **Fields:**

Name	Type	Status	Description
------	------	--------	-------------

content	object	Required	New JSON content for the file.
---------	--------	----------	--------------------------------

**Example:**

JSON

```
{  
  "content": { "theme": "light", "notifications": false, "new_setting": 123 }  
}
```

**Responses:**

**Success (200):**

JSON

```
{  
  "message": "Configuration file updated successfully",  
  "config": { ... (updated config details) }  
}
```

**Error (400):**

JSON

```
{  
  "error": "Content is required | File is not a JSON file | Error updating file | ..."  
}
```

---

**PUT /api/cmms-configs/{filename}/rename**

Rename a configuration file within the 'configs' subfolder (Admin only).

**Headers:**

Name	Purpose	Status	Example
------	---------	--------	---------

Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
---------------	----------------------	----------	--------------------

Content-Type	Specify content type	Required	application/json
--------------	----------------------	----------	------------------

**URL Parameters:**

**Path Parameters:**

Name	Type	Status	Description
------	------	--------	-------------

filename	string	Required	Current name of the config file.
----------	--------	----------	----------------------------------

#### Request Body:

Format: JSON **Fields:**

Name	Type	Status	Description
------	------	--------	-------------

new_filename	string	Required	New filename (must end in .json).
--------------	--------	----------	-----------------------------------

#### Example:

JSON

```
{
  "new_filename": "app_settings.json"
}
```

#### Responses:

##### Success (200):

JSON

```
{
  "message": "Configuration file renamed successfully",
  "config": { ... (details with new filename) }
}
```

##### Error (400):

JSON

```
{
  "error": "New filename is required | New filename must end with .json | File not found | New filename already exists | ..."
}
```

---

#### DELETE /api/cmms-configs/{filename}

Delete a configuration file from the 'configs' subfolder (Admin only).

#### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

#### URL Parameters:

#### Path Parameters:

Name	Type	Status	Description
filename	string	Required	Name of the config file to delete.

#### Request Body:

N/A

#### Responses:

##### Success (200):

```
JSON
{
  "message": "Configuration file deleted successfully"
}
```

##### Error (404):

```
JSON
{
  "error": "Configuration file not found"
}
```

---

#### GET /api/cmms-configs/check

Check if the main configuration file exists in the 'configs' subfolder.

#### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

#### URL Parameters:

N/A

#### Request Body:

N/A

**Responses:**

**Success (200):**

JSON

```
{
  "exists": true,
  "metadata": {
    "filename": "cmms_config.json",
    "path": "configs/cmms_config.json",
    "size": 512,
    "modified_at": "..."
  },
  "message": "Configuration file found in configs folder"
}
```

**or exists: false**

**Error (500):**

JSON

```
{
  "error": "Internal server error",
  "details": "<error_details>"
}
```

---

**GET /api/export\_submissions/{submission\_id}/pdf**

Export a specific form submission as a PDF document.

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

**URL Parameters:**

**Path Parameters:**



Name	Type	Status	Description
------	------	--------	-------------

submission_id	integer	Required	ID of the form submission to export.
---------------	---------	----------	--------------------------------------

**Request Body:**

N/A

**Responses:**

**Success (200):** File content (application/pdf) **Error (400):**

JSON

```
{
  "error": "Submission not found | Error generating PDF | Unauthorized access"
}
```

---

**POST /api/export\_submissions/{submission\_id}/pdf/logo**

Export a form submission as PDF with custom header image and signature formatting.

**Headers:**

Name	Purpose	Status	Example
------	---------	--------	---------

Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
---------------	----------------------	----------	--------------------

Content-Type	Specify content type	Required	multipart/form-data
--------------	----------------------	----------	---------------------

**URL Parameters:**

**Path Parameters:**

Name	Type	Status	Description
------	------	--------	-------------

submission_id	integer	Required	ID of the form submission.
---------------	---------	----------	----------------------------

**Request Body:**

Format: Form Data **Fields:**

Name	Type	Status	Description
------	------	--------	-------------

header_image	file	Optional	Image file (PNG/JPG/JPEG) for the header.
--------------	------	----------	---

header_opacity	float	Optional	Opacity of the header image (0-100). Default: 100.
----------------	-------	----------	--

header_size	float	Optional	Size percentage for header image (maintains aspect ratio). Default: original size (100%).
-------------	-------	----------	---

header_width	float	Optional	Explicit width in pixels for header image (overrides header_size).
header_height	float	Optional	Explicit height in pixels for header image (overrides header_size).
header_alignment	string	Optional	Alignment of header image ('left', 'center', 'right'). Default: center.
signatures_size	float	Optional	Size percentage for signature images. Default: 100.
signatures_alignment	string	Optional	Layout for signatures ('vertical', 'horizontal'). Default: vertical.

**Example:** N/A (Form data)

#### Responses:

**Success (200):** File content (application/pdf) **Error (400):**

JSON

```
{
  "error": "Submission not found | Header image must be PNG or JPEG | Header opacity must be a number | ..."
}
```

---

#### GET /api/counts

Get counts for all entity types accessible to the user.

#### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

#### URL Parameters:

#### Query Parameters:

Name	Type	Status	Description
include_deleted	boolean	Optional	Include counts of soft-deleted items (Admin only). Default: false.

#### Request Body:

N/A

#### Responses:

**Success (200):**

JSON

```
{
  "users": 15,
  "roles": 4,
  "permissions": 50,
  "environments": 3,
  "question_types": 8,
  "questions": 120,
  "answers": 35,
  "forms": 25,
  "form_submissions": 500,
  "answers_submitted": 2500,
  "attachments": 150,
  "role_permissions": 100,
  "form_questions": 150,
  "form_answers": 60
}
```

**Error (500):**

JSON

```
{
  "error": "Internal server error"
}
```

---

**GET /api/counts/{entity}**

Get the count for a specific entity type (e.g., users, forms, roles).

**Headers:**

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

**URL Parameters:**

**Path Parameters:**

Name	Type	Status	Description
------	------	--------	-------------

entity	string	Required	The entity type plural name (e.g., 'users', 'forms').
--------	--------	----------	---

**Query Parameters:**

Name	Type	Status	Description
------	------	--------	-------------

include_deleted	boolean	Optional	Include count of soft-deleted items (Admin only). Default: false.
-----------------	---------	----------	---

**Request Body:**

N/A

**Responses:****Success (200):**

JSON

```
{
  "entity": "users",
  "count": 15,
  "include_deleted": false
}
```

**Error (500):**

JSON

```
{
  "error": "Internal server error"
}
```

---

**GET /api/entity\_basic/basic**

Get basic representations (id, name/title) of all entity types (Admin only).

**Headers:**

Name	Purpose	Status	Example
------	---------	--------	---------

Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
---------------	----------------------	----------	--------------------

**URL Parameters:**

#### Query Parameters:

Name	Type	Status	Description
page	integer	Optional	Page number. Default: 1.
per_page	integer	Optional	Items per page. Default: 20.
include_deleted	boolean	Optional	Include soft-deleted items. Default: false.

#### Request Body:

N/A

#### Responses:

##### Success (200):

JSON

```
{
  "metadata": { ... },
  "items": [
    { "id": 1, "name": "Admin", "type": "roles" },
    { "id": 1, "title": "Daily Safety Check", "type": "forms" },
    { ... }
  ]
}
```

##### Error (403):

JSON

```
{
  "error": "Unauthorized. Admin access required."
}
```

---

#### GET /api/entity\_basic/{entity\_type}/basic

Get basic representations (id, name/title) for a specific entity type.

#### Headers:

Name	Purpose	Status	Example
------	---------	--------	---------

Authorization Authentication token Required Bearer <JWT\_TOKEN>

**URL Parameters:**

**Path Parameters:**

Name	Type	Status	Description
------	------	--------	-------------

entity_type	string	Required	Entity type (e.g., 'users', 'forms').
-------------	--------	----------	---------------------------------------

**Query Parameters:**

Name	Type	Status	Description
------	------	--------	-------------

page	integer	Optional	Page number. Default: 1.
------	---------	----------	--------------------------

per_page	integer	Optional	Items per page. Default: 20 (max 100).
----------	---------	----------	--

include_deleted	boolean	Optional	Include soft-deleted items (Admin only). Default: false.
-----------------	---------	----------	--

**Request Body:**

N/A

**Responses:**

**Success (200):**

JSON

```
{
  "metadata": { ... },
  "items": [
    { "id": 1, "name": "Daily Safety Check" },
    { "id": 2, "name": "Monthly Maintenance Report" },
    { ... }
  ]
}
```

**Error (400):**

JSON

```
{
  "error": "Invalid entity type | Invalid pagination parameters"
}
```

---

## GET /api/entity\_basic/{entity\_type}/{entity\_id}/basic

Get basic representation (id, name/title) for a specific entity instance.

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>

### URL Parameters:

#### Path Parameters:

Name	Type	Status	Description
entity_type	string	Required	Entity type (e.g., 'users', 'forms').
entity_id	integer	Required	ID of the entity.

#### Query Parameters:

Name	Type	Status	Description
include_deleted	boolean	Optional	Include if soft-deleted (Admin only). Default: false.

### Request Body:

N/A

### Responses:

#### Success (200):

JSON

```
{
  "id": 1,
  "name": "Daily Safety Check"
}
```

#### Error (404):

JSON

```
{
  "error": "Entity not found"
}
```

---

## POST /api/entity\_basic/{entity\_type}/basic/batch

Get basic representations for multiple entities of the same type by their IDs.

### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

### URL Parameters:

#### Path Parameters:

Name	Type	Status	Description
entity_type	string	Required	Entity type (e.g., 'users', 'forms').

#### Query Parameters:

Name	Type	Status	Description
include_deleted	boolean	Optional	Include soft-deleted items (Admin only). Default: false.

### Request Body:

Format: JSON **Fields:**

Name	Type	Status	Description
ids	array	Required	List of entity IDs.

### Example:

```
JSON
{
  "ids": [1, 5, 12]
}
```

### Responses:

#### Success (200):

```
JSON
{
  "items": [
```



```
{ "id": 1, "name": "Daily Safety Check" },
{ "id": 5, "name": "Incident Report" },
{ "id": 12, "name": "Equipment Calibration" }
]
}
```

#### Error (400):

JSON

```
{
  "error": "Invalid request format. Expected 'ids' list in JSON body"
}
```

---

#### POST /api/reports/generate

Generate a customizable report in XLSX format. Requires specific roles (Admin, Site Manager, Supervisor).

##### Headers:

Name	Purpose	Status	Example
Authorization	Authentication token	Required	Bearer <JWT_TOKEN>
Content-Type	Specify content type	Required	application/json

##### URL Parameters:

N/A

##### Request Body:

Format: JSON **Fields:**

Name	Type	Status	Description
report_type	string	Required	Type of report (e.g., 'users', 'forms', 'submissions', 'all').
columns	array	Optional	List of column names to include. Defaults used if omitted.
filters	object	Optional	Key-value pairs for filtering data (e.g., {"environment_id": 1, "role_name": "Technician"}).
sort_by	string	Optional	Column name to sort by.

sort\_order string Optional Sort order ('asc' or 'desc'). Default: 'asc'.

environment\_id integer Optional Specify environment ID (used if filters don't contain it).

**Example:**

JSON

```
{
  "report_type": "submissions",
  "columns": ["id", "form_title", "submitted_by", "submitted_at"],
  "filters": {
    "form_id": 5,
    "submitted_at_after": "2025-04-01T00:00:00Z"
  },
  "sort_by": "submitted_at",
  "sort_order": "desc"
}
```

**Responses:**

**Success (200):** File content (application/vnd.openxmlformats-officedocument.spreadsheetml.sheet)

**Error (400):**

JSON

```
{
  "error": "Missing required report parameter: report_type | Invalid report type | Invalid column | ..."
}
```

---

This includes documentation for the main endpoints identified in the provided files. Additional endpoints related to permissions, environments, question types, answers, form questions, form answers, and role permissions follow similar patterns and are largely administrative or relate to setting up the structure of forms. Their specific parameters and responses can be inferred from the corresponding view files (permission\_views.py, environment\_views.py, etc.).