# API Usage Guide

Welcome to the API documentation for **[Your API Name]**. This page provides a concise guide to help you understand how to interact with the API effectively. For full endpoint definitions, request/response schemas, and try-it-out functionality, refer to the Swagger documentation.

## Swagger Documentation

* [**Production Swagger UI**](https://api.yourdomain.com/docs)

## URLs

| **Environment** | **Base URL** |
| --- | --- |
| Production | https://api.yourdomain.com/ |
| Sandbox | https://sandbox.api.yourdomain.com/ |

## Authentication (Session-Based)

This API uses **session-based authentication** (Spring Security).

Log in via POST /login:

{

"username": "your-username",

"password": "your-password"

}

A session cookie (e.g., JSESSIONID) is set and must be included in all subsequent requests.

To log out, send a POST to /logout.

Your HTTP client (e.g., browser, Postman, or code) must be configured to **store and send cookies**.

## Allowed HTTP Methods

| **Method** | **Purpose** |
| --- | --- |
| GET | Retrieve a resource or list |
| POST | Create a new resource |
| PUT | Update or replace a resource |
| DELETE | Delete a resource |

## Content-Type & Headers

All requests and responses use JSON.

**Standard Headers:**

Content-Type: application/json

Accept: application/json

Session cookies are automatically handled after login.

## Common Server Responses

| **Code** | **Status Text** | **Description** |
| --- | --- | --- |
| 200 | OK | Request was successful |
| 201 | Created | A new resource was successfully created |
| 204 | No Content | Request succeeded, but there's no body to return |
| 400 | Bad Request | Invalid input, missing parameters, or validation failure |
| 401 | Unauthorized | Authentication failed or session is missing/expired |
| 403 | Forbidden | You are authenticated, but not allowed to access this resource |
| 404 | Not Found | The requested resource does not exist |
| 405 | Method Not Allowed | The HTTP method used is not supported for this resource |
| 409 | Conflict | Request could not be completed due to a conflict (e.g., duplicate data) |
| 415 | Unsupported Media Type | The request content-type is not supported |
| 422 | Unprocessable Entity | Validation passed basic checks but failed domain-specific rules |
| 429 | Too Many Requests | You’ve hit a rate limit; try again later |
| 500 | Internal Server Error | A generic error occurred on the server |
| 503 | Service Unavailable | The API is temporarily down or overloaded |

## Notes

* Timestamps follow ISO 8601 format (UTC)
* Session idle timeout is enforced on the server side

## Roles & Permissions

Access to API endpoints is controlled via role-based permissions.

| **Role** | **Permissions** |
| --- | --- |
| ADMIN | Full access to all API operations, including user management |
| MANAGER | Can view and modify most resources related to business operations |
| USER | Limited to viewing and updating own data |
| GUEST | Read-only access to public endpoints |

**Authorization Behavior:**

* Endpoints are protected using Spring Security role-based access control (RBAC)
* Unauthorized access attempts return 403 Forbidden

## How to Get Access

To request API access:

1. Visit: [**https://yourdomain.com/api-access**](https://yourdomain.com/api-access)
2. Submit the following details:
   * Full name and organization email
   * Intended use case
   * Required environment (Production or Sandbox)
   * Requested role(s)
3. Once approved, your account will be created and assigned the necessary roles
4. Use your credentials to log in and start using the API

## Need Help?

Contact the API team at [**api-support@yourdomain.com**](mailto:api-support@yourdomain.com)