

SessionAuthentication

This authentication scheme uses Django's default session backend for authentication. Session authentication is appropriate for AJAX clients that are running in the same session context as your website.

If successfully authenticated, SessionAuthentication provides the following credentials.

`request.user` will be a Django User instance.

`request.auth` will be a Django User instance.

Unauthenticated responses that are denied permission will result in an HTTP 403 Forbidden response.

If you're using an AJAX style with SessionAuthentication, you'll need to make sure you include a valid CSRF token for any "unsafe" HTTP method calls, such as PUT, PATCH, POST or DELETE requests.

Permission

Permissions are used to grant or deny access for different classes of users to different parts of the API.

Permission checks are always run at the very start of the view, before any other code is allowed to proceed.

Permission checks will typically use the authentication information in the `request.user` and `request.auth` properties to determine if the incoming request should be permitted.

Permission Classes

Permissions in the REST framework are always defined as a list of permission classes.

- AllowAny
- IsAuthenticated
- IsAdminUser
- IsAuthenticatedOrReadOnly
- DjangoModelPermissions
- DjangoModelPermissionsOrAnonReadOnly
- DjangoModelPermissionsOrAnonReadOnly
- DjangoObjectPermissions

AllowAny

The AllowAny permission class will allow unrestricted access, regardless of if the request was authenticated or unauthenticated.

This Permission is not strictly required, since you can achieve the same result by using an empty list or tuple for the permissions setting, but you may find it useful to specify this class because it makes the intention explicit.

IsAuthenticated

The IsAuthenticated permission class will deny permission to any unauthenticated user, and allow permission otherwise.

This permission is suitable if you want your API to only be accessible to registered users.

IsAdminUser

The IsAdminUser permission class will deny permission to any user, unless user.is_staff is True in which case permission will be allowed.

This permission is suitable if you want your API to only be accessible to a subset of trusted administrators.

IsAuthenticatedOrReadOnly

The IsAuthenticatedOrReadOnly will allow authenticated users to perform any request. Requests for unauthorized users will only be permitted if the request method is one of the “safe” methods; GET HEAD or OPTIONS.

This permission is suitable if you want your API to allow read permissions to anonymous users, and only allow write permissions to authenticated users.

DjangoModelPermissions

This permission class ties into Django’s standard django.contrib.auth model permission. This permission must only be applied to views that have a queryset property set. Authorization will only be granted if the user is authenticated and has the relevant model permissions assigned.

- POST requests require the user to have the add permission on the model.
- PUT and PATCH requests require the user to have the change permission on the model.
- DELETE requests require the user to have the delete permission on the model.

The default behavior can also be overridden to support custom model permissions. For example, you might want to include a view model permission for GET requests.

To use custom model permissions, override DjangoModelPermissions and set the perms_map property.

DjangoModelPermissionsOrAnonReadOnly

Similar to DjangoModelPermissions, but also allows unauthenticated users to have read-only access to the API.

DjangoObjectPermissions

This permission class ties into Django’s standard object permissions framework that allows per-object permissions on models. In order to use this permission class, you’ll also need to add a permission backend that supports object-level permissions, such as django-guardian.

As with DjangoModelPermissions, this permission must only be applied to views that have a queryset property or get_queryset() method. Authorization will only be granted if the user is authenticated and has the relevant per-object permissions and relevant model permissions assigned.

- POST requests require the user to have the add permission on the model instance.
- PUT and PATCH requests require the user to have the change permission on the model instance.
- DELETE requests require the user to have the delete permission on the model instance.