Serializer Relations

When using the ModelSerializer class, serializer fields and relationships will be automatically generated for you.

repr(serializer) – This shows automatically generated fields and relations.

Serializer Relations

StringRelatedField - StringRelatedField may be used to represent the target of the relationship using its __str__ method. This field is read only.

Arguments:

many - If applied to a to-many relationship, you should set this argument to True.

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PrimaryKeyRelatedField - PrimaryKeyRelatedField may be used to represent the target of the relationship using its primary key.

By default this field is read-write, although you can change this behavior using the read_only flag.

Arguments:

queryset - The queryset used for model instance lookups when validating the field input. Relationships must either set a queryset explicitly, or set read_only=True.

many - If applied to a to-many relationship, you should set this argument to True.

allow_null - If set to True, the field will accept values of None or the empty string for nullable relationships. Defaults to False.

pk_field - Set to a field to control serialization/deserialization of the primary key's value. For example, pk_field=UUIDField(format='hex') would serialize a UUID primary key into its compact hex representation.

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HyperlinkedRelatedField - HyperlinkedRelatedField may be used to represent the target of the relationship using a hyperlink. By default this field is read-write, although you can change this behavior using the read_only flag.

Arguments:

view_name - The view name that should be used as the target of the relationship. If you're using the standard router classes this will be a string with the format <modelname>-detail. required.

queryset - The queryset used for model instance lookups when validating the field input. Relationships must either set a queryset explicitly, or set read_only=True.

many - If applied to a to-many relationship, you should set this argument to True.

allow_null - If set to True, the field will accept values of None or the empty string for nullable relationships. Defaults to False.

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lookup_field - The field on the target that should be used for the lookup. Should correspond to a URL keyword argument on the referenced view. Default is 'pk'.

lookup_url_kwarg - The name of the keyword argument defined in the URL conf that corresponds to the lookup field. Defaults to using the same value as lookup_field.

format - If using format suffixes, hyperlinked fields will use the same format suffix for the target unless overridden by using the format argument.

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SlugRelatedField - SlugRelatedField may be used to represent the target of the relationship using a field on the target.

By default this field is read-write, although you can change this behavior using the read_only flag.

When using SlugRelatedField as a read-write field, you will normally want to ensure that the slug field corresponds to a model field with unique=True.

Arguments:

slug_field - The field on the target that should be used to represent it. This should be a field that uniquely identifies any given instance. For example, username. required

queryset - The queryset used for model instance lookups when validating the field input. Relationships must either set a queryset explicitly, or set read_only=True.

many - If applied to a to-many relationship, you should set this argument to True.

allow_null - If set to True, the field will accept values of None or the empty string for nullable relationships. Defaults to False.

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HyperlinkedIdentityField - This field can be applied as an identity relationship, such as the 'url' field on a HyperlinkedModelSerializer. It can also be used for an attribute on the object. This field is always read-only.

Arguments:

view_name - The view name that should be used as the target of the relationship. If you're using the standard router classes this will be a string with the format <model_name>-detail. required.

lookup_field - The field on the target that should be used for the lookup. Should correspond to a URL keyword argument on the referenced view. Default is 'pk'.

lookup_url_kwarg - The name of the keyword argument defined in the URL conf that corresponds to the lookup field. Defaults to using the same value as lookup_field.

format - If using format suffixes, hyperlinked fields will use the same format suffix for the target unless overridden by using the format argument.

Nested relationships

As opposed to previously discussed references to another entity, the referred entity can instead also be embedded or nested in the representation of the object that refers to it. Such nested relationships can be expressed by using serializers as fields.

If the field is used to represent a to-many relationship, you should add the many=True flag to the serializer field.