

```

from django.views.generic import CreateView, ListView, UpdateView, DetailView, DeleteView
from django.urls import reverse, reverse_lazy
from django.contrib import messages
from django.utils.translation import gettext_lazy as _
from django.shortcuts import get_object_or_404

```

```

from oscar.core.loading import get_classes
from oscar.apps.dashboard.catalogue.views import \
    ProductListView as CoreProductListView, \
    ProductCreateRedirectView as CoreProductCreateRedirectView, \
    ProductCreateUpdateView as CoreProductCreateUpdateView
from oscar.apps.catalogue.models import ProductClass

```

```

from myapps.catalogue.models import Metal, Gemstone, ProductAttribute, Product
from myapps.dashboard.catalogue.forms import MetalSelectForm, GemstoneSelectForm

```

```

class ProductCreateUpdateView(CoreProductCreateUpdateView):

```

```

    def get_object(self, queryset=None):

```

```

        """

```

```

        This parts allows generic.UpdateView to handle creating products as
        well. The only distinction between an UpdateView and a CreateView
        is that self.object is None. We emulate this behavior.

```

```

        This method is also responsible for setting self.product_class, self.metal
        and self.parent.

```

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        """

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```

        self.creating = 'pk' not in self.kwargs

```

```

        if self.creating:

```

```

            # Specifying a parent product is only done when creating a child
            # product.

```

```

            parent_pk = self.kwargs.get('parent_pk')

```

```

            if parent_pk is None:

```

```

                self.parent = None

```

```

                # A product class needs to be specified when creating a
                # standalone product.

```

```

                product_class_slug = self.kwargs.get('product_class_slug')

```

```

                metal_slug = self.kwargs.get('metal_slug')

```

```

                self.product_class = get_object_or_404(
                    ProductClass, slug=product_class_slug)

```

```

                self.metal = get_object_or_404(

```

```

                    Metal, slug=metal_slug)

```

```

            else:

```

```

                self.parent = get_object_or_404(Product, pk=parent_pk)

```

```

                self.product_class = self.parent.product_class

```

```

                self.metal = self.parent.metal

```

```

        return None # success

```

```

    else:

```

```

        product = super().get_object(queryset)

```

```

        self.product_class = product.get_product_class()

```

```

        self.parent = product.parent

```

```

        self.metal = product.get_metal_type()

```

```

        return product

```

```

    def get_context_data(self, **kwargs):

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```

        ctx = super().get_context_data(**kwargs)

```

```

        ctx['product_class'] = self.product_class

```

```

        ctx['metal'] = self.metal

```

```

        ctx['parent'] = self.parent

```

```

        ctx['title'] = self.get_page_title()

```

```

    for ctx_name, formset_class in self.formsets.items():

```

```

        if ctx_name not in ctx:

```

```

            ctx[ctx_name] = formset_class(self.product_class,

```

```
        self.metal,
        self.request.user,
        instance=self.object)

    return ctx

def get_page_title(self):
    if self.creating:
        if self.parent is None:
            return _('Create new %(product_class)s product of metal %(metal)') % {
                'product_class': self.product_class.name, 'metal': self.metal.name}
        else:
            return _('Create new variant of %(parent_product)s') % {
                'parent_product': self.parent.title}
    else:
        if self.object.title or not self.parent:
            return self.object.title
        else:
            return _('Editing variant of %(parent_product)s') % {
                'parent_product': self.parent.title}

def get_form_kwargs(self):
    kwargs = super().get_form_kwargs()
    kwargs['metal'] = self.metal
    return kwargs
```