Ask Company



리액트와 함께 장고 시작하기 / 장고 Forms built-in CBV를 통한 Form 처리

여러분의 파이썬/장고 페이스메이커가 되겠습니다.

Built-in CBV API

Base views

View, TemplateView, Redirect View

Generic display views

DetailView, ListView

Generic date views

ArchiveIndexView, YearArchiveView, MonthArchiveView, WeekArchiveView, DayArchiveView, TodayArchiveView, DateDetailView

Generic editing views

FormView, CreateView, UpdateView, DeleteView

https://docs.djangoproject.com/en/3.0/ref/class-based-views/

Built-in CBV API

Generic editing views

FormView

TemplateResponseMixin, BaseFormView

CreateView

SingleObjectTemplateResponseMixin

Base<mark>Create</mark>View ← ModelFormMixin, ProcessFormView

UpdateView

SingleObjectTemplateResponseMixin

Base<mark>Update</mark>View ← ModelFormMixin, ProcessFormView

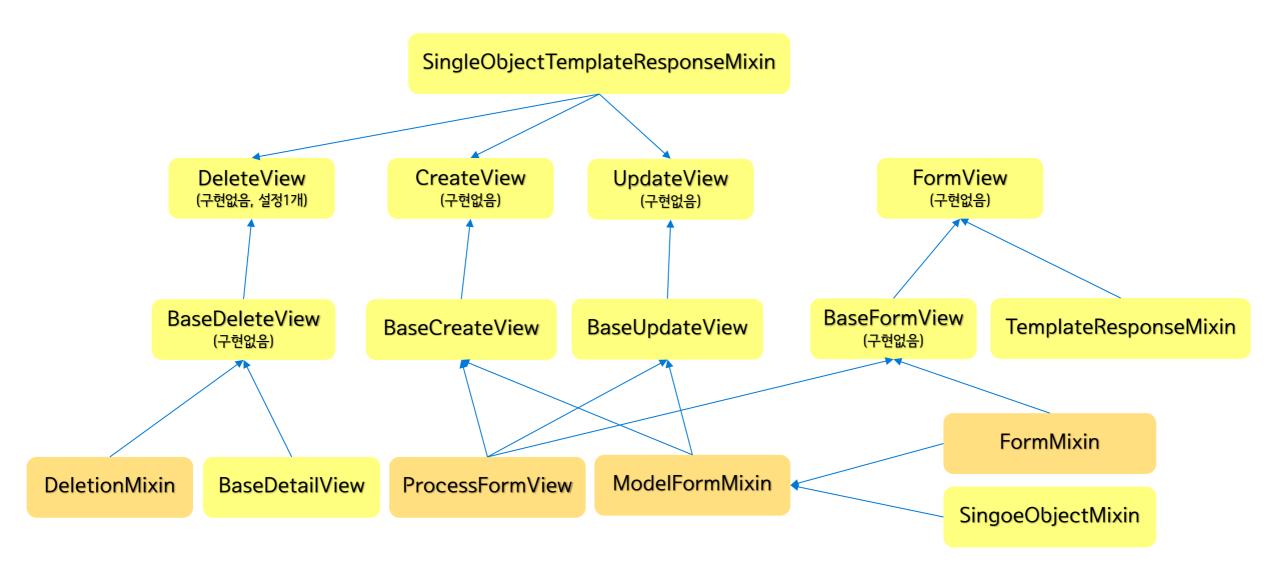
DeleteView

SingleObjectTemplateResponseMixin

Base<mark>Delete</mark>View ← DeletionMixin, BaseDetailView

https://docs.djangoproject.com/en/3.0/ref/class-based-views/

Form CBV 관계도



```
# 생략 ...
  ProcessFormView
                                                                 def get_context_data(self, **kwargs):
                                                                     if 'form' not in kwargs:
                                                                         kwargs['form'] = self.get_form()
class ProcessFormView(View):
                                                                         return super().get_context_data(**kwargs)
    """Render a form on GET and processes it on POST."""
   def get(self, request, *args, **kwargs):
        """Handle GET requests: instantiate a blank version of the form."""
       return self.render_to_response(self.get_context_data())
   def post(self, request, *args, **kwargs):
        Handle POST requests: instantiate a form instance with the passed
        POST variables and then check if it's valid.
        0.00
       form = self.get_form()
        if form.is_valid():
           return self.form valid(form)
        else:
           return self.form_invalid(form)
   # PUT is a valid HTTP verb for creating (with a known URL) or editing
an
   # object, note that browsers only support POST for now.
   def put(self, *args, **kwargs):
       return self.post(*args, **kwargs)
```

class FormMixin(ContextMixin):

Create 구현의 다양한 예 #1

```
def post_new(request):
    if request.method == 'POST':
        form = PostForm(request.POST, request.FILES)
        if form.is_valid():
            object = form.save()
            return redirect(object)
    else:
        form = PostForm()
    return render(request, "myapp/post_form.html", {
            "form": form,
        })
```

Create 구현의 다양한 예 #2

```
from django.shortcuts import resolve_url
from django.views.generic import FormView
from .forms import PostForm
class PostCreateView(FormView):
   form class = PostForm
   template_name = 'myapp/post_form.html'
   def form_valid(self, form):
       self.object = form.save() # CBV ModelFormMixin에서 구현된 부분
       return super().form_valid(form)
   def get_success_url(self):
       # 주의: Post모델에 get_absolute_url() 멤버함수 구현 필요
       return resolve_url(self.object)
       # return self.post.get_absolute_url() # 대안 1
       # return reverse('blog:post_detail', args=[self.post.id]) # 대안 2
post_new = PostCreateView.as_view()
```

Create 구현의 다양한 예 #3/#4

```
from django.views.generic import CreateView
from .forms import PostForm
class PostCreateView(CreateView):
    form class = PostForm
post_new = PostCreateView.as_view()
from django.views.generic import CreateView
from .models import Post
class PostCreateView(CreateView):
    model = Post
post_new = PostCreateView.as_view()
```

CreateView와 UpdateView (1)

```
class CreateView(SingleObjectTemplateResponseMixin, BaseCreateView):
    View for creating a new object, with a response rendered by a template.
   template_name_suffix = '_form'
class BaseCreateView(ModelFormMixin, ProcessFormView):
    0.00
    Base view for creating a new object instance.
    Using this base class requires subclassing to provide a response mixin.
    def get(self, request, *args, **kwargs):
        self.object = None
        return super().get(request, *args, **kwargs)
    def post(self, request, *args, **kwargs):
        self.object = None
        return super().post(request, *args, **kwargs)
```

CreateView UpdateView (2)

```
class UpdateView(SingleObjectTemplateResponseMixin, BaseUpdateView):
    """View for updating an object, with a response rendered by a template."""
    template_name_suffix = '_form'
class BaseUpdateView(ModelFormMixin, ProcessFormView):
    Base view for updating an existing object.
    Using this base class requires subclassing to provide a response mixin.
    0.00
    def get(self, request, *args, **kwargs):
        self.object = self.get_object()
        return super().get(request, *args, **kwargs)
    def post(self, request, *args, **kwargs):
        self.object = self.get_object()
        return super().post(request, *args, **kwargs)
```

ModelFormMixin

```
class ModelFormMixin(FormMixin, SingleObjectMixin):
                                                                                     def get_form_kwargs(self):
    """Provide a way to show and handle a ModelForm in a request."""
                                                                                          """Return the keyword arguments for instantiating the form."""
    fields = None
                                                                                          kwargs = super().get_form_kwargs()
                                                                                          if hasattr(self, 'object'):
   def get_form_class(self):
                                                                                              kwargs.update({'instance': self.object})
        """Return the form class to use in this view."""
                                                                                         return kwargs
        if self.fields is not None and self.form class:
            raise ImproperlyConfigured(
                                                                                     def get_success_url(self):
                "Specifying both 'fields' and 'form_class' is not permitted."
                                                                                          """Return the URL to redirect to after processing a valid form."""
                                                                                         if self.success url:
        if self.form class:
                                                                                              url = self.success_url.format(**self.object.__dict__)
            return self.form_class
                                                                                          else:
        else:
                                                                                              try:
            if self.model is not None:
                                                                                                  url = self.object.get_absolute_url()
                # If a model has been explicitly provided, use it
                                                                                              except AttributeError:
                model = self.model
                                                                                                  raise ImproperlyConfigured(
            elif getattr(self, 'object', None) is not None:
                                                                                                      "No URL to redirect to. Either provide a url or define"
                # If this view is operating on a single object, use
                                                                                                      " a get_absolute_url method on the Model.")
                # the class of that object
                                                                                          return url
                model = self.object.__class__
                                                                                     def form_valid(self, form):
            else:
                # Try to get a gueryset and extract the model class
                                                                                          """If the form is valid, save the associated model."""
                # from that
                                                                                          self.object = form.save()
                model = self.get_queryset().model
                                                                                         return super().form_valid(form)
            if self.fields is None:
                raise ImproperlyConfigured(
                    "Using ModelFormMixin (base class of %s) without "
                    "the 'fields' attribute is prohibited." % self.__class__.__name__
            return model_forms.modelform_factory(model, fields=self.fields)
```

FormMixin

```
class FormMixin(ContextMixin):
    """Provide a way to show and handle a form in a request."""
   initial = {}
   form class = None
   success url = None
   prefix = None
   def get_initial(self):
        """Return the initial data to use for forms on this view."""
        return self.initial.copy()
   def get_prefix(self):
        """Return the prefix to use for forms."""
        return self.prefix
   def get_form_class(self):
        """Return the form class to use."""
       return self.form class
   def get_form(self, form_class=None):
        """Return an instance of the form to be used in this view."""
        if form class is None:
           form_class = self.get_form_class()
        return form_class(**self.get_form_kwargs())
```

```
def get_form_kwargs(self):
    """Return the keyword arguments for instantiating the form."""
    kwargs = {
        'initial': self.get_initial(),
        'prefix': self.get_prefix(),
    if self.request.method in ('POST', 'PUT'):
        kwargs.update({
            'data': self.request.POST,
            'files': self.request.FILES.
       })
   return kwargs
def get_success_url(self):
    """Return the URL to redirect to after processing a valid form."""
    if not self.success_url:
       raise ImproperlyConfigured("No URL to redirect to. Provide a
success_url.")
   return str(self.success_url) # success_url may be lazy
def form_valid(self, form):
    """If the form is valid, redirect to the supplied URL."""
   return HttpResponseRedirect(self.get_success_url())
def form_invalid(self, form):
    """If the form is invalid, render the invalid form."""
   return self.render_to_response(self.get_context_data(form=form))
def get_context_data(self, **kwargs):
    """Insert the form into the context dict."""
    if 'form' not in kwargs:
        kwargs['form'] = self.get_form()
   return super().get_context_data(**kwargs)
```

DeleteView

```
class DeletionMixin:
class DeleteView(SingleObjectTemplateResponseMixin, BaseDeleteView):
                                                                          """Provide the ability to delete objects."""
                                                                          success_url = None
   View for deleting an object retrieved with self.get_object(), with a
   response rendered by a template.
                                                                          def delete(self, request, *args, **kwargs):
   template_name_suffix = '_confirm_delete'
                                                                              Call the delete() method on the fetched object and then redirect
                                                                      to the
                                                                              success URL.
class BaseDeleteView(DeletionMixin, BaseDetailView):
                                                                              self.object = self.get_object()
   Base view for deleting an object.
                                                                              success_url = self.get_success_url()
   Using this base class requires subclassing to provide a response
                                                                              self.object.delete()
mixin.
                                                                              return HttpResponseRedirect(success_url)
                                                                          # Add support for browsers which only accept GET and POST for now.
                                                                          def post(self, request, *args, **kwargs):
                                                                              return self.delete(request, *args, **kwargs)
 <form action="" method="post">
                                                                          def get_success_url(self):
       {% csrf_token %}
                                                                              if self.success url:
       <input type="submit"</pre>
                                                                                  return self.success_url.format(**self.object.__dict__)
 value="삭제하겠습니다." />
                                                                              else:
                                                                                  raise ImproperlyConfigured(
 </form>
                                                                                      "No URL to redirect to. Provide a success_url.")
```

Life is short.
You need Python and Django.

I will be your pacemaker.

