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라마 하게 장고 시작하기 / 장고 Views **장고 기본 CBV API** (Generic display views)

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/2.1/ref/class-based-views/

Generic display views

DetailView

- ← SingleObjectTemplateResponseMixin
 - ← TemplateResponseMixin
- ← BaseDetailView
 - ← SingleObjectMixin
 - ← View

ListView

- ← MultipleObjectTemplateResponseMixin
 - ← TemplateResponseMixin
- ← BaseListView
 - ← MultipleObjectMixin ← ContextMixin
 - ← View

https://docs.djangoproject.com/en/2.1/ref/class-based-views/generic-display/

DetailView

DetailView

1개 모델의 1개 Object에 대한 템플릿 처리

```
모델명소문자 이름의 Model Instance를 템플릿에 전달
  지정 pk 혹은 slug에 대응하는 Model Instance
from django.views.generic import DetailView
from .models import Post
post_detail1 = DetailView.as_view(model=Post)
class PostDetailtView(DetailView):
   model = Post
post detail2 = PostDetailtView.as view()
```

DetailView 상속관계

django.views.generic.detail.DetailView

← SingleObjectTemplateResponseMixin

template_name이 지정되지 않았다면, 모델명으로 템플릿 경로 유추

← TemplateResponseMixin

← BaseDetailView

- ← SingleObjectMixin: url_kwarg로 지정된 Model Instance 획득
 - ← ContextView
- ← View

```
class SingleObjectMixin(ContextMixin):
   Provide the ability to retrieve a single object for further manipulation.
   model = None
   quervset = None
   slug_field = 'slug'
   context_object_name = None
   slug_url_kwarg = 'slug'
   pk_url_kwarg = 'pk'
   query_pk_and_slug = False
   def get_object(self, queryset=None):
       Return the object the view is displaying.
       Require 'self.queryset' and a 'pk' or 'slug' argument in the URLconf.
       Subclasses can override this to return any object.
       # Use a custom queryset if provided; this is required for subclasses
       # like DateDetailView
       if queryset is None:
           queryset = self.get_queryset()
       # Next, try looking up by primary key.
       pk = self.kwargs.get(self.pk_url_kwarg)
       slug = self.kwargs.get(self.slug_url_kwarg)
       if pk is not None:
           queryset = queryset.filter(pk=pk)
       # Next, try looking up by slug.
       if slug is not None and (pk is None or self.guery_pk_and_slug):
           slug_field = self.get_slug_field()
           quervset = quervset.filter(**{slug field: slug})
       # If none of those are defined, it's an error.
       if pk is None and slug is None:
           raise AttributeError(
                "Generic detail view %s must be called with either an object "
                "pk or a slug in the URLconf." % self.__class__.__name__
       try:
           # Get the single item from the filtered queryset
           obj = quervset.get()
       except queryset.model.DoesNotExist:
           raise Http404(_("No %(verbose_name)s found matching the query") %
                          {'verbose_name': queryset.model._meta.verbose_name})
       return obj
```

```
def get_queryset(self):
          Return the 'QuerySet' that will be used to look up the object.
          This method is called by the default implementation of get_object() and
          may not be called if get_object() is overridden.
          if self.queryset is None:
              if self.model:
                  return self.model._default_manager.all()
              else:
                  raise ImproperlyConfigured(
                      "%(cls)s is missing a QuerySet. Define "
                      "%(cls)s.model, %(cls)s.queryset, or override "
                      "%(cls)s.get_gueryset()." % {
                          'cls': self.__class__._name__
          return self.queryset.all()
          def get_slug_field(self):
              """Get the name of a slug field to be used to look up by slug."""
              return self.slug_field
          def get_context_object_name(self, obj):
              """Get the name to use for the object."""
              if self.context object name:
                  return self.context_object_name
              elif isinstance(obj, models.Model):
                  return obj._meta.model_name
              else:
                  return None
          def get_context_data(self, **kwargs):
              """Insert the single object into the context dict."""
              context = {}
              if self.object:
                  context['object'] = self.object
                  context_object_name = self.get_context_object_name(self.object)
                  if context object name:
                      context[context_object_name] = self.object
                  context.update(kwargs)
              return super().get_context_data(**context)
class DetailView(SingleObjectTemplateResponseMixin, BaseDetailView):
    pass
```

ListView

ListView

1개 모델에 대한 List 템플릿 처리

모델명소문자_list 이름의 QuerySet을 템플릿에 전달

페이징 처리 지원

```
from django.views.generic import ListView
from .models import Post
post list1 = ListView.as view(model=Post)
post_list2 = ListView.as_view(model=Post, paginate_by=10)
class PostListView(ListView):
   model = Post
    paginate by = 10
post_list3 = PostListView.as_view()
class PostListView(ListView):
   model = Post
    paginate_by = 10
    def get_queryset(self):
        qs = super().get_queryset()
        qs = qs.filter(...)
        return qs
post list4 = PostListView.as view()
```

ListView 상속관계

django.views.generic.list.ListView

← MultipleObjectTemplateResponseMixin

template_name이 지정되지 않았다면, 모델명으로 템플릿 경로 유추

← TemplateResponseMixin

← BaseListView

- ← MultipleObjectMixin: Paginator가 적용된 QuerySet 획득
 - ← ContextMixin
- ← View

```
class MultipleObjectMixin(ContextMixin):
                                                                                  class BaseListView(MultipleObjectMixin, View):
   """A mixin for views manipulating multiple objects."""
                                                                                       """A base view for displaying a list of objects."""
   allow_empty = True
                                                                                      def get(self, request, *args, **kwargs):
   queryset = None
                                                                                          self.object_list = self.get_gueryset()
                                                                                          allow_empty = self.get_allow_empty()
   model = None
    paginate_by = None
   paginate_orphans = 0
                                                                                          if not allow_empty:
                                                                                               # When pagination is enabled and object_list is a queryset,
   context_object_name = None
   paginator_class = Paginator
                                                                                               # it's better to do a cheap guery than to load the unpaginated
   page_kwarg = 'page'
                                                                                               # queryset in memory.
                                                                                              if self.get_paginate_by(self.object_list) is not None \
   ordering = None
                                                                                                       and hasattr(self.object_list, 'exists'):
                                                                                                   is_empty = not self.object_list.exists()
   def get_queryset(self):
                                                                                               else:
        # ...
                                                                                                   is_empty = not self.object_list
        return queryset
                                                                                              if is_empty:
                                                                                                  raise Http404(_('Empty list and "%(class_name)s.allow_empty" is False.') % {
   def paginate_queryset(self, queryset, page_size):
        # ...
                                                                                                       'class_name': self.__class__.__name__,
        return (paginator, page, page.object_list, page.has_other_pages())
                                                                                                   })
                                                                                          context = self.get_context_data()
   def get_context_data(self, *, object_list=None, **kwargs):
                                                                                          return self.render to response(context)
        """Get the context for this view."""
        queryset = object_list if object_list is not None else self.object_list
        page_size = self.get_paginate_by(queryset)
        context_object_name = self.get_context_object_name(gueryset)
        if page_size:
            paginator, page, queryset, is_paginated = self.paginate_queryset(queryset, page_size)
            context = {
                'paginator': paginator,
                'page_obj': page,
                'is_paginated': is_paginated,
                                                                                 class ListView(MultipleObjectTemplateResponseMixin, BaseListView):
                'object_list': quervset
                                                                                     pass
        else:
            context = {
                'paginator': None,
                'page_obj': None,
                'is_paginated': False,
                'object_list': gueryset
```

https://github.com/django/django/blob/3.0.2/django/views/generic/list.py

if context_object_name is not None:

context.update(kwargs)

context[context_object_name] = queryset

return super().get_context_data(**context)

인생은 짧습니다. 파이썬/장고를 쓰세요.

여러분의 파이썬/장고 페이스메이커가 되겠습니다.

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