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# 제너릭 뷰

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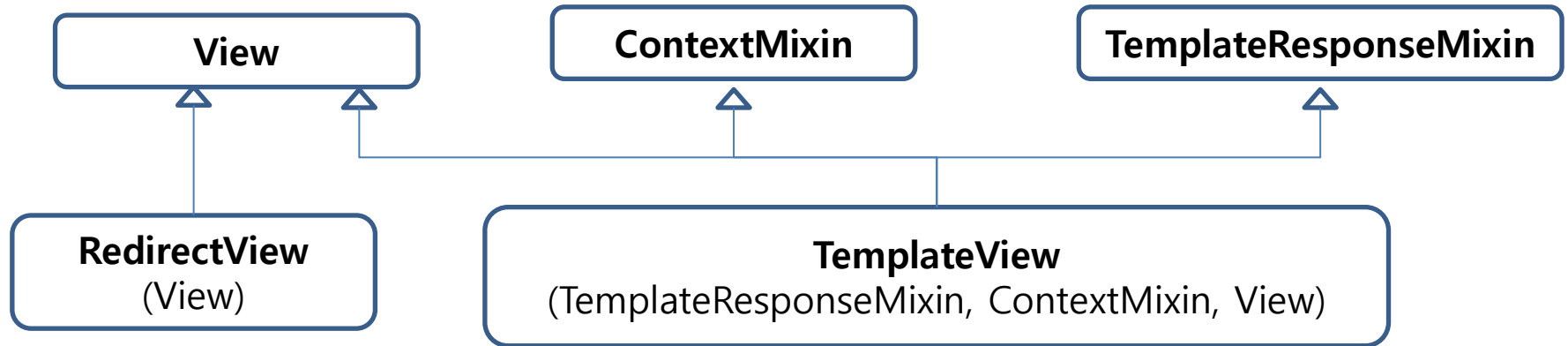
## ❖ 제너릭 뷰

- 클래스 기반 뷰 제작시 기본 클래스 제공
- 제너릭 뷰 소스
  - <https://github.com/django/django/tree/master/django/views/generic>

# 기반 제너릭 뷰

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## ❖ base.py



# 기반 제너릭 뷰

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## ❖ ContextMixin:

- 필드
  - `extra_context = None`
- 메서드
  - `get_context_data(self, **kwargs):`

## ❖ class View:

- 필드
  - `http_method_names = ['get', 'post', 'put', 'patch', 'delete', 'head', 'options', 'trace']`
- 메서드
  - `__init__(self, **kwargs)`
  - `as_view(cls, **initkwargs)`
  - `setup(self, request, *args, **kwargs)`
  - `dispatch(self, request, *args, **kwargs)`
  - `http_method_not_allowed(self, request, *args, **kwargs)`
  - `options(self, request, *args, **kwargs)`
  - `_allowed_methods(self)`

# 기반 제너릭 뷰

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## ❖ **TemplateResponseMixin:**

### ○ 필드

- `template_name = None`
- `template_engine = None`
- `response_class = TemplateResponse`
- `content_type = None`

### ○ 메서드

- `render_to_response(self, context, **response_kwargs)`
- `get_template_names(self)`

## ❖ **class TemplateView(TemplateResponseMixin, ContextMixin, View):**

### ○ 메서드

- `get(self, request, *args, **kwargs)`

# 기반 제너릭 뷰

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## ❖ RedirectView(View):

### ○ 필드

- `permanent = False`
- `url = None`
- `pattern_name = None`
- `query_string = False`

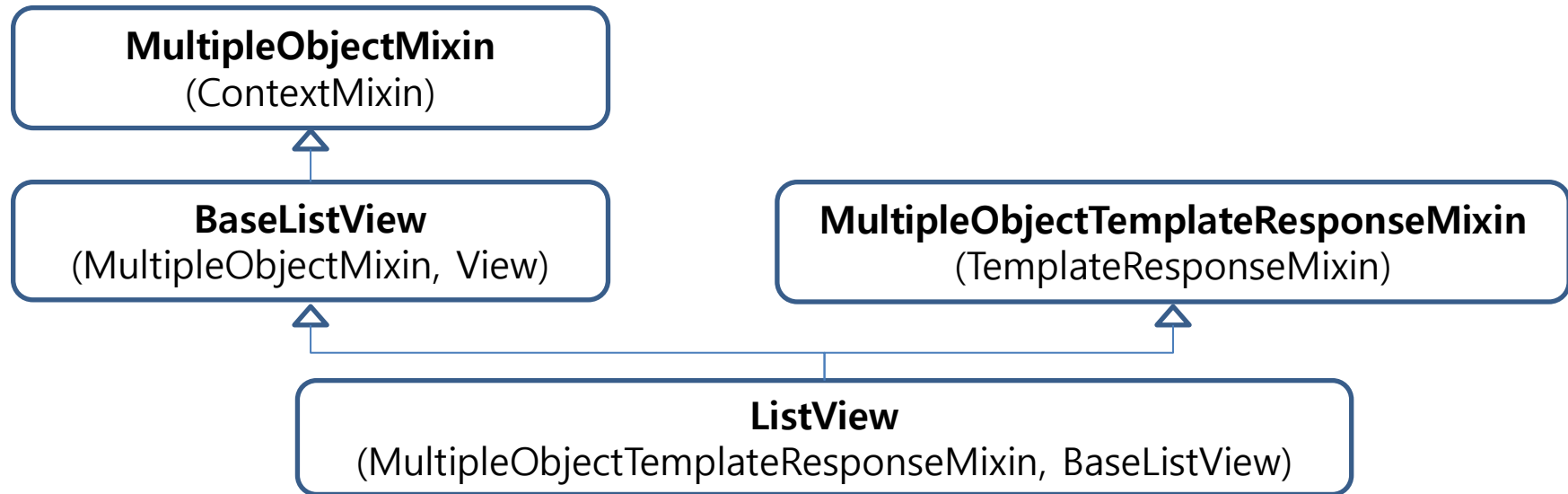
### ○ 메서드

- `get_redirect_url(self, *args, **kwargs):`
- `get(self, request, *args, **kwargs):`
- `head(self, request, *args, **kwargs):`
- `post(self, request, *args, **kwargs):`
- `options(self, request, *args, **kwargs):`
- `delete(self, request, *args, **kwargs):`
- `put(self, request, *args, **kwargs):`
- `patch(self, request, *args, **kwargs):`

# 목록 제너릭 뷰

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## ❖ list.py



# 목록 제너릭 뷰

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## ❖ MultipleObjectMixin(ContextMixin):

### ○ 필드

- `allow_empty = True`
- `queryset = None`
- `model = None`
- `paginate_by = None`
- `paginate_orphans = 0`
- `context_object_name = None`
- `paginator_class = Paginator`
- `page_kwarg = 'page'`
- `ordering = None`

### ○ 메서드

- `get_queryset(self):`
- `get_ordering(self):`
- `paginate_queryset(self, queryset, page_size):`
- `get_paginate_by(self, queryset):`
- `get_paginator(self, queryset, per_page, orphans=0, allow_empty_first_page=True, **kwargs):`
- `get_paginate_orphans(self):`
- `get_allow_empty(self):`
- `get_context_object_name(self, object_list):`
- `get_context_data(self, *, object_list=None, **kwargs):`



# 목록 제너릭 뷰

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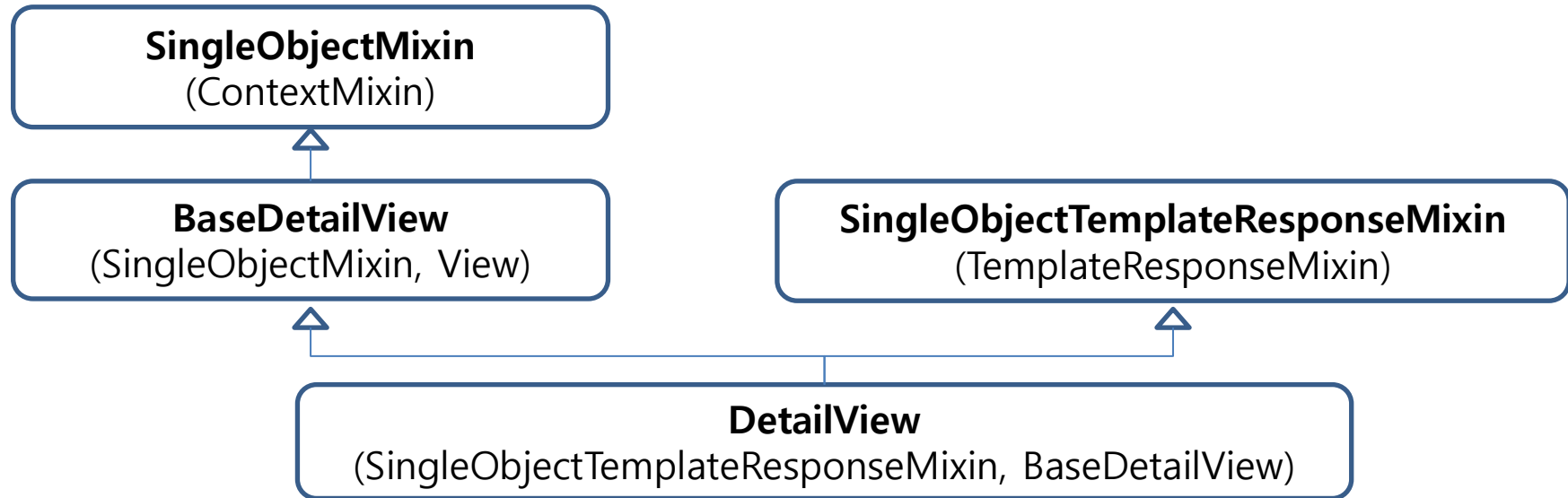
## ❖ ListView(MultipleObjectTemplateResponseMixin, BaseListView)

- 메서드 호출 순서
  - `dispatch(request, *args, **kwargs)`
  - `get(request, *args, **kwargs)`
    - `self.object_list = self.get_queryset()`
    - `self.get_paginate_by(self.object_list)`
    - `context = self.get_context_data()`
    - `return self.render_to_response(context)`

# 상세보기 제너릭 뷰

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## ❖ detail.py



# 상세보기 제너릭 뷰

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## ❖ SingleObjectMixin(ContextMixin)

### ○ 필드

- `model = None`
- `queryset = None`
- `slug_field = 'slug'`
- `context_object_name = None`
- `slug_url_kwarg = 'slug'`
- `pk_url_kwarg = 'pk'`
- `query_pk_and_slug = False`

### ○ 메서드

- `get_object(self, queryset=None):`
- `get_queryset(self):`
- `get_slug_field(self):`
- `get_context_object_name(self, obj):`
- `def get_context_data(self, **kwargs):`

# 상세보기 제너릭 뷰

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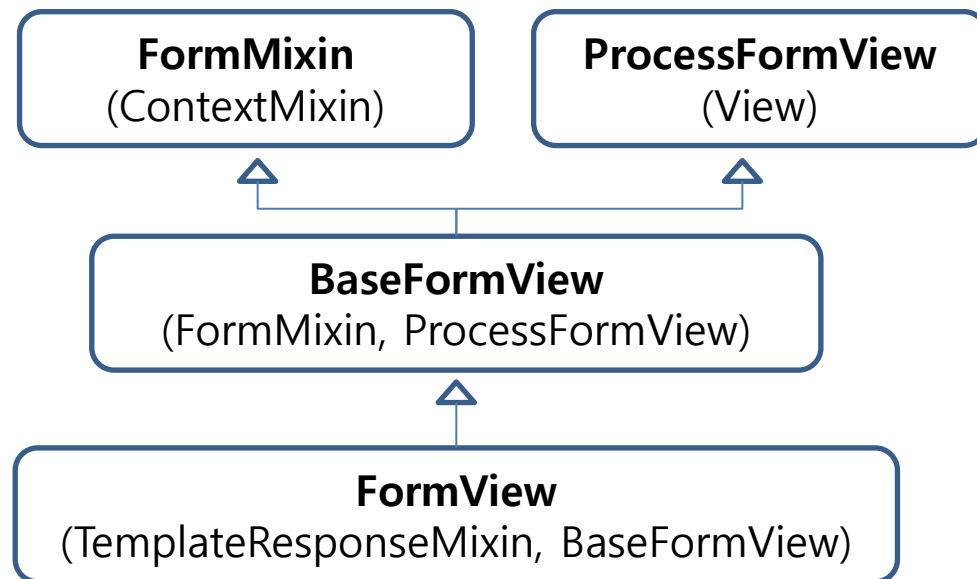
## ❖ `DetailView(SingleObjectTemplateResponseMixin, BaseDetailView)`

- 메서드 호출 순서
  - `dispatch(request, *args, **kwargs)`
  - `get(request, *args, **kwargs)`
    - `context = self.get_context_data(object=self.object)`
    - `return self.render_to_response(context)`

# 단일 항목 수정 제너릭 뷰

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❖ edit.py(FormView)



# 단일 항목 수정 제너릭 뷰

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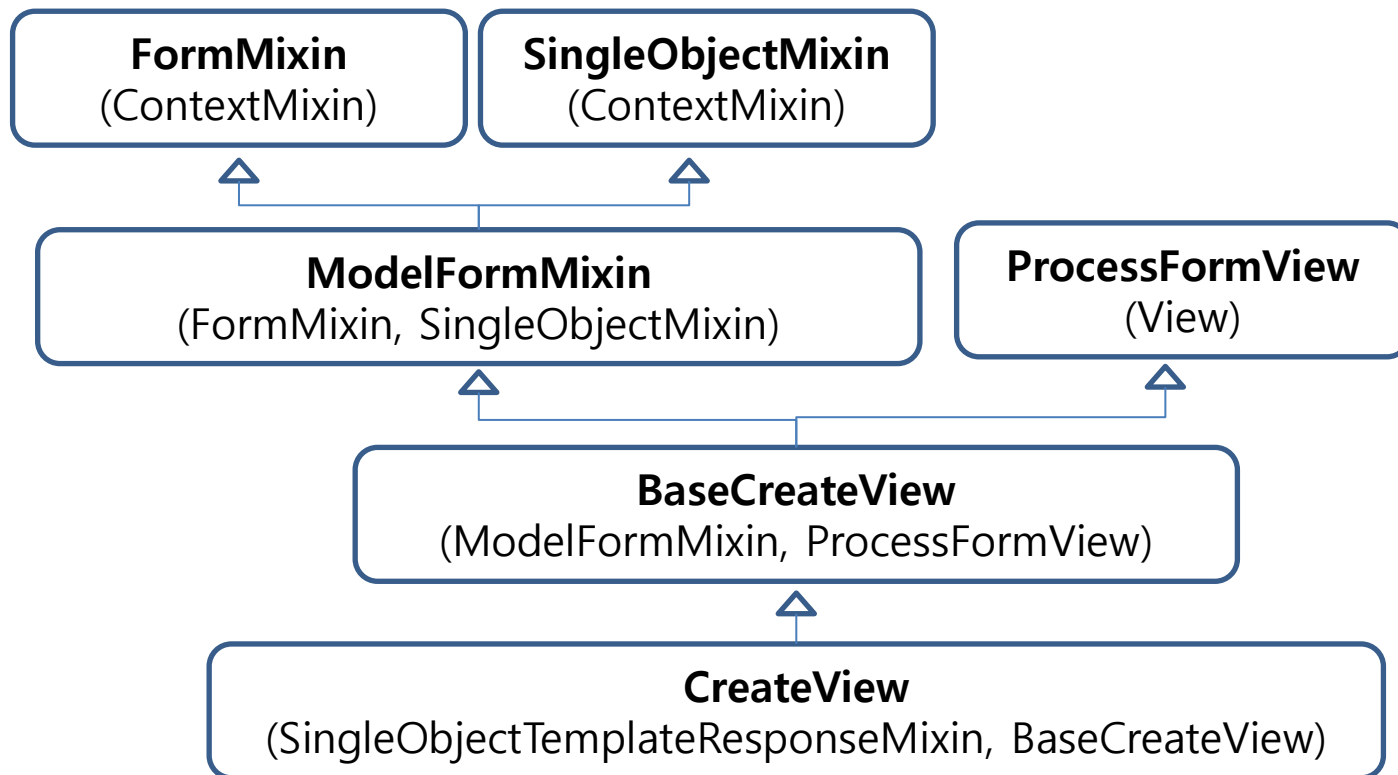
## ❖ FormView(TemplateResponseMixin, BaseFormView)

### ○ 메서드 호출 순서

- `dispatch(request, *args, **kwargs)`
- `get(request, *args, **kwargs)`
  - `return self.render_to_response(self.get_context_data())`
- `post(request, *args, **kwargs):`
  - `form = self.get_form()`
  - `if form.is_valid():`
    - `form_valid(form)`
    - `return HttpResponseRedirect(self.get_success_url())`
  - `else:`
    - `self.form_invalid(form)`
    - `return self.render_to_response(self.get_context_data(form=form))`

# 단일 항목 수정 제너릭 뷰

## ❖ edit.py(CreateView)



# 단일 항목 수정 제너릭 뷰

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## ❖ CreateView

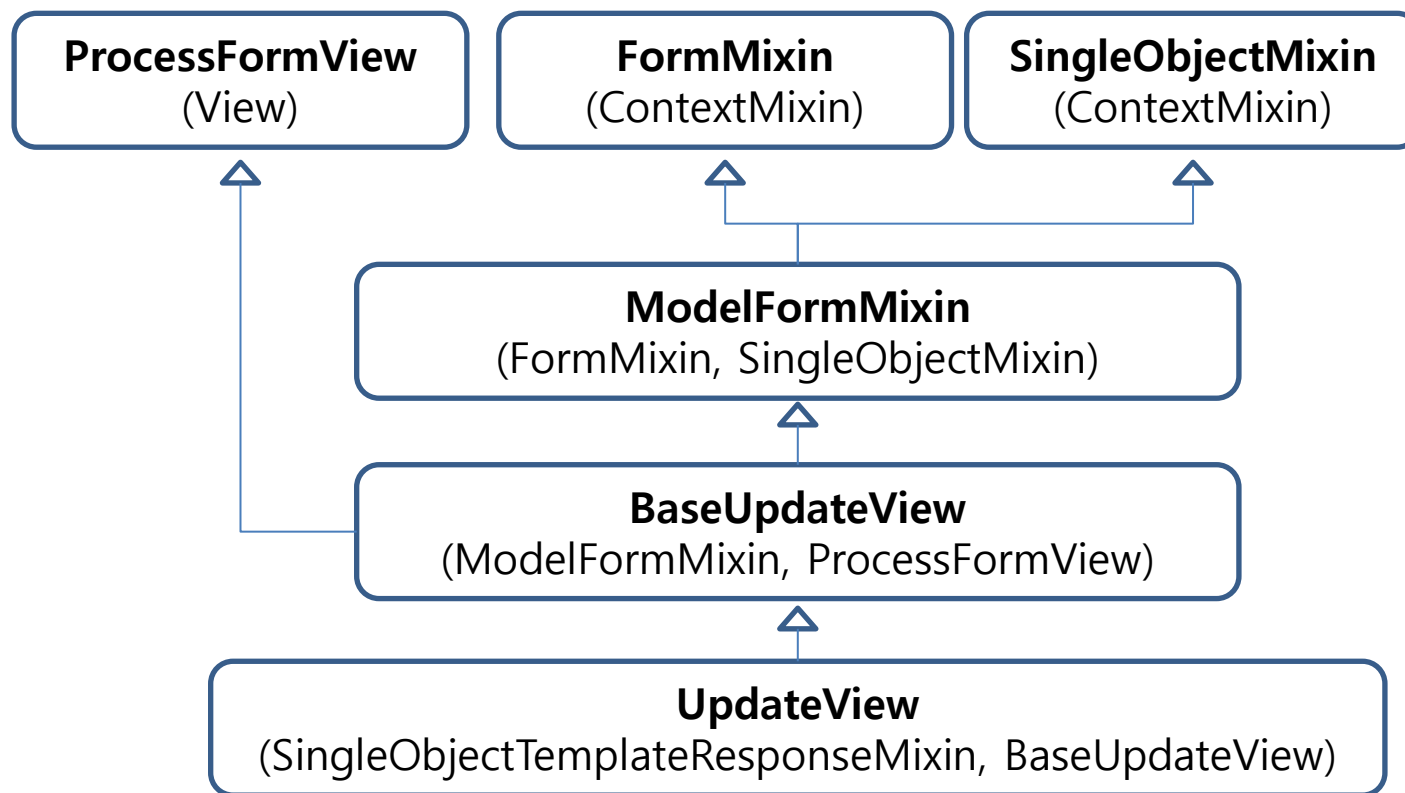
### ○ 메서드 호출 순서

- `dispatch(request, *args, **kwargs)`
- `get(request, *args, **kwargs)`
  - `self.object = None`
  - `return self.render_to_response(self.get_context_data())`
- `post(request, *args, **kwargs):`
  - `self.object = None`
  - `form = self.get_form()`
  - `if form.is_valid():`
    - `form_valid(form)`
    - `self.object = form.save()`
    - `return HttpResponseRedirect(self.get_success_url())`
  - `else:`
    - `self.form_invalid(form)`
    - `return self.render_to_response(`
      - `self.get_context_data(form=form))`



# 단일 항목 수정 제너릭 뷰

## ❖ edit.py(UpdateView)



# 단일 항목 수정 제너릭 뷰

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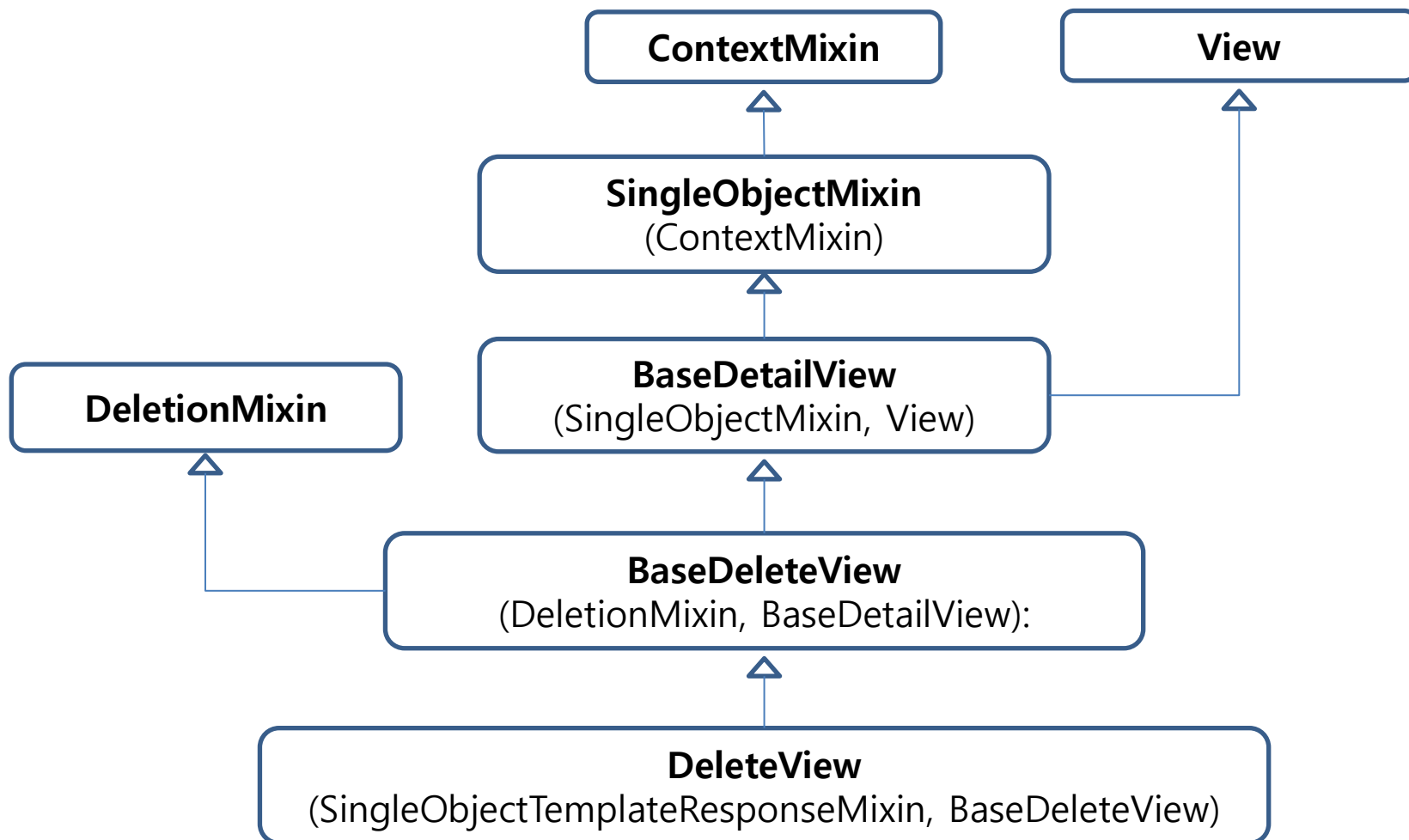
## ❖ UpdateView(SingleObjectTemplateResponseMixin, BaseUpdateView)

### ○ 메서드 호출 순서

- `dispatch(request, *args, **kwargs)`
- `get(request, *args, **kwargs)`
  - `self.object = self.get_object()`
  - `return self.render_to_response(self.get_context_data())`
- `post(request, *args, **kwargs):`
  - `self.object = self.get_object()`
  - `form = self.get_form()`
  - `if form.is_valid():`
    - `form_valid(form)`
    - `self.object = form.save()`
    - `return HttpResponseRedirect(self.get_success_url())`
  - `else:`
    - `self.form_invalid(form)`
    - `return self.render_to_response(`  
`self.get_context_data(form=form))`

# 단일 항목 수정 제너릭 뷰

❖ edit.py(DeleteView)



# 단일 항목 수정 제너릭 뷰

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## ❖ DeleteView(SingleObjectTemplateResponseMixin, BaseDeleteView)

### ○ 메서드 호출 순서

- `dispatch(request, *args, **kwargs)`
- `get(request, *args, **kwargs)`
  - `return HttpResponseRedirect()`
- `post(request, *args, **kwargs)`
  - `delete(request, *args, **kwargs)`
    - `self.object = self.get_object()`
    - `success_url = self.get_success_url()`
    - `self.object.delete()`
    - `return HttpResponseRedirect(success_url)`