실전 프로그램 개발 - 콘텐츠 편집 기능 -(Bookmark)

애플리케이션 설계하기

❖ 모델 설계

o Bookmark 모델 클래스

owner	ForeignKey(User)	Null	북마크 소유자	
url	URLField	Unique	북마크 URL	
Title	CharField(100)	Blank, Null	북마크 제목	
ld	Integer	PK, Auto Increment	기본 키	
필드명	타입	제약 조건	설명	

애플리케이션 설계하기

❖ Bookmark URL 설계

URL 패턴	뷰 이름	템플릿 파일명	
/bookmark/	BookmarkLV(ListView)	bookmark_list.html	
/bookmark/99/	BookmarkDV(DetailView)	bookmark_detail.html	
/bookmark/add/*	BookmarkCreateView(CreateView)	bookmark_form.html	
/bookmark/change/	BookmarkChangeLV(ListView)	bookmark_change_list.html	
/bookmark/99/update/*	BookmarkUpdateView(UpdateView)	bookmark_form.html	
/bookmark/99/delete/	BookmarkDeleteView(DeleteView)	bookmark_confirm_delete.html	

bookmark/models.py

❖ 데이터베이스 반영

- \$ python manage.py makemigrations bookmark
- \$ python manage.py migrate

❖ 접근 권한 제어 뷰 클래스

- o django.contrib.auth.mixins.LoginRequiredMixin
 - 로그인 사용자만 뷰가 작동하도록 함
 - 로그인 하지 않고 해당 url로 직접 접근하면 로그인 페이지로 리다이렉트 됨
- o OwnerOnlyMixin
 - django.contrib.auth.mixins.AccessMixin를 상속
 - 로그인 사용자가 모델 인스턴스의 소유자인 경우에만 뷰가 작동하도록 함

mysite/views.py

```
from django.contrib.auth.mixins import AccessMixin
from django.views.defaults import permission denied
class OwnerOnlyMixin(AccessMixin):
  raise exception = True
  permission denied message = "Owner only can update/delete the object"
  def get(self, request, *args, **kwargs):
    self.object = self.get_object() # 모델 인스턴스 얻기
   if self.request.user != self.object.owner:
      self.handle_no_permission()
    return super().get(request, *args, **kwargs)
```

bookmark/views.py

```
from django.views.generic import ListView, DetailView
from bookmark.models import Bookmark
from django.views.generic import CreateView, UpdateView, DeleteView
from django.contrib.auth.mixins import LoginRequiredMixin
from django.urls import reverse lazy
from mysite.views import OwnerOnlyMixin
class BookmarkCreateView(LoginRequiredMixin, CreateView):
   model = Bookmark
   fields = ['title', 'url'] # 폼 모델에 사용할 필드 → 폼 모델 자동 생성
    success url = reverse lazy('bookmark:index')
   def form valid(self, form):
       form.instance.owner = self.request.user
        return super().form valid(form)
```

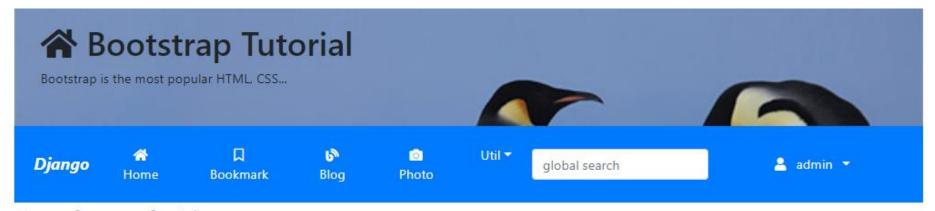
bookmark/views.py

```
class BookmarkChangeLV(LoginRequiredMixin, ListView):
   template name = 'bookmark/bookmark change list.html'
   def get_queryset(self):
        return Bookmark.objects.filter(owner=self.request.user)
class BookmarkUpdateView(OwnerOnlyMixin, UpdateView):
   model = Bookmark
   fields = ['title', 'url'] # 폼 모델에 사용할 필드 → 폼 모델 자동 생성
   success url = reverse lazy('bookmark:index')
class BookmarkDeleteView(OwnerOnlyMixin, DeleteView):
   model = Bookmark
   success url = reverse lazy('bookmark:index')
```

bookmark/urls.py

```
from django.urls import path
from bookmark .views import *
app name = 'bookmark'
urlpatterns = [
  # Example: /bookmark/add/
  path('add/', BookmarkCreateView.as_view(), name="add"),
  # Example: /bookmark/change/
  path('change/', BookmarkChangeLV.as_view(), name="change"),
  # Example: /bookmark/99/update/
  path('<int:pk>/update/', BookmarkUpdateView.as_view(), name="update"),
  # Example: /bookmark/99/delete/
  path('<int:pk>/delete/', BookmarkDeleteView.as_view(), name="delete"),
```

❖ 쓰기 / 수정목록 인터페이스



Bookmark List

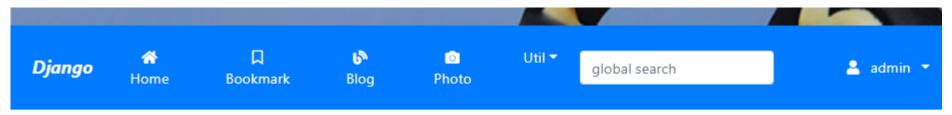
- 구글
- 네이버
- 다음



bookmark/templastes/bookmark/bookmark_list.html

```
<div>
   {% if user.is_active %}
     <a href="{%url 'bookmark:add' %}" class="btn btn-primary btn-sm">
        <i class="fas fa-pencil-alt"></i> 쓰기</a>
     <a href="{% url 'bookmark:change'%}"</pre>
       class="btn btn-primary btn-sm"><i class="far fa-edit"></i> 수정 목록</a>
   {% endif %}
 </div>
{% endblock %}
```

❖ 북마크 쓰기/수정



Bookmark Create/Update - admin

This is a creation or update form for your bookmark.

TITLE:		
URL:		
	Submit	

bookmark/templastes/bookmark/bookmark_form.html

```
{% extends "base.html" %}
{% load widget_tweaks %}
{% block title %}bookmark form.html{% endblock %}
{% block content %}
 <h1>Bookmark Create/Update - {{user}}</h1>
 This is a creation or update form for your
bookmark.
 {% if form.errors %}
 <div class="alert alert-danger">
   <div class="font-weight-bold">
       Wrong! Please correct the error(s) below.</div>
   {{ form.errors }}
 </div>
 {% endif %}
```

bookmark/templastes/bookmark/bookmark_form.html

```
<form action="." method="post" class="card pt-3">{% csrf token %}
   <div class="form-group row">
      {{ form.title|
         add label class: "col-form-label col-sm-2 ml-3 font-weight-bold" }}
      <div class="col-sm-5">
       {{ form.title|add class:"form-control"|attr:"autofocus" }}
     </div>
   </div>
    <div class="form-group row">
      {{ form.url|
         add label class: "col-form-label col-sm-2 ml-3 font-weight-bold" }}
      <div class="col-sm-5">
       {{ form.url|add class:"form-control" }}
      </div>
   </div>
   <div class="form-group">
      <div class="offset-sm-2 col-sm-5">
        <input type="submit" value="Submit" class="btn btn-info"/>
      </div>
   </div>
  </form>
{% endblock %}
```

❖ 수정목록



Bookmark Change - kskim

Title	Url	Owner	Update	Delete
구글	https://www.google.com	kskim	☑ 수정	膏 삭제
네이버	https://www.naver.com	kskim	☑ 수정	章 삭제
다음	https://www.daum.net	kskim	☑ 수정	膏 삭제

bookmark/templastes/bookmark/bookmark_change_list.html

```
{% extends "base.html" %}
{% block title %}bookmark_change_list.html{% endblock %}
{% block content %}
 <h1>Bookmark Change - {{user}}</h1>
 <br>
 <thead>
   Title
    Url
    Owner
    Update
    Delete
   </thead>
```

bookmark/templastes/bookmark/bookmark_change_list.html

```
{% for item in object_list %}
    >
      {{ item.title }}
      {{ item.url }}
      {{ item.owner }}
      <a href="{% url 'bookmark:update' item.id %}">
         <i class="far fa-edit"></i> 수정</a>
      </a>
      <a href="{% url 'bookmark:delete' item.id %}" >
           <i class="fas fa-trash"></i> 삭제</a>
      </a>
    {% endfor %}
   {% endblock %}
```

개발 코딩하기(삭제)

❖ 삭제 확인 인터페이스



Bookmark Delete

Are you sure you want to delete "구글"?



개발 코딩하기(삭제)

bookmark/templastes/bookmark/bookmark_confirm_delete.html

```
{% extends "base.html" %}
{% block title %}bookmark confirm delete.html{% endblock %}
{% block content %}
 <h1>Bookmark Delete</h1>
 <br>
 <form action="." method="post">{% csrf token %}
   Are you sure you want to delete "{{ object }}" ?
   <input type="submit" value="Confirm" class="btn btn-danger btn-sm" />
 </form>
</div>
{% endblock %}
```