Deponentlanadigan materiallarning titul varagʻi

EHM uchun dastur (Ma'lumotlar bazasi) nomi:

"cyber-news.uz"

Huquq ega(lar)si:

1. Roʻzmetov Temurbek Ixtiyor oʻgʻli

Muallif(lar):

1. Roʻzmetov Temurbek Ixtiyor oʻgʻli

EHM uchun dasturni identifikatsiya qiluvchi materiallar dastlabki matni (Dastur kodi)

Saytning news_app.models qismi kodi:

```
from django.contrib.auth.models import User
from django.urls import reverse
from django.utils import timezone
from django.db import models
class PublishedManager(models.Manager):
    def get_queryset(self):
        return super().get_queryset().filter(News.Status.Published)
class Category(models.Model):
    name = models.CharField(max_length=150)
    def __str__(self):
        return self.name
class News(models.Model):
    class Status(models.TextChoices):
        Draft = 'DF', 'Draft'
        Published = 'PB', 'Published'
    title = models.CharField(max_length=250)
    slug = models.SlugField(max length=250)
    body = models.TextField()
    image = models.ImageField(upload_to='news/image')
    category = models.ForeignKey(Category,
                                 on_delete=models.CASCADE
    publish_time = models.DateTimeField(default=timezone.now)
    created_time = models.DateTimeField(auto_now_add=True)
    updated_time = models.DateTimeField(auto_now=True)
    status = models.CharField(max_length=2,
                              choices=Status.choices,
                              default=Status.Draft
    objects = models.Manager()
    published = PublishedManager()
    class Meta:
        ordering = ["-publish time"]
```

```
def __str__(self):
        return self.title
    def get absolute url(self):
        return reverse("news_detail_page", args=[self.slug])
class Contact(models.Model):
    name = models.CharField(max_length=150)
    email = models.EmailField(max length=150)
    message = models.TextField()
    def __str__(self):
        return self.email
class Comment(models.Model):
    news = models.ForeignKey(News,
                             on delete=models.CASCADE,
                             related name='comments'
    user = models.ForeignKey(User,
                             on_delete=models.CASCADE,
                             related name='comments'
    body = models.TextField()
    created_time = models.DateTimeField(auto_now_add=True)
    active = models.BooleanField(default=True)
    class Meta:
        ordering = ['created_time']
    def __str__(self):
        return f"Comment - {self.body} by {self.user} "
```

Saytning news_app.views qismi kodi:

```
from django.contrib.auth.decorators import login_required, user_passes_test from django.contrib.auth.models import User from django.db.models import Q from django.http import HttpResponse from django.shortcuts import render, get_object_or_404 from django.urls import reverse_lazy from django.views.generic import TemplateView, ListView, UpdateView, DeleteView, CreateView
```

```
from django.contrib.auth.mixins import LoginRequiredMixin
from hitcount.utils import get_hitcount_model
from .models import News, Category
from .forms import ContactForm, CommentForm
from news_project.custom_permissions import OnlyLoggedSuperUser
def news list(request):
    news_list = News.objects.filter(status=News.Status.Published)
    # news list = News.objects.all()
    context = {
        "news_list": news_list
    return render(request, "news/news_list.html", context)
from hitcount.views import HitCountDetailView, HitCountMixin
def news_detail(request, news):
    news = get_object_or_404(News, slug=news, status=News.Status.Published)
    context = {}
    # hitcount logic
    hit_count = get_hitcount_model().objects.get_for_object(news)
    hits = hit_count.hits
    hitcontext = context['hitcount'] = {'pk': hit_count.pk}
    hit count response = HitCountMixin.hit count(request, hit count)
    if hit_count_response.hit_counted:
        hits = hits + 1
        hitcontext['hit_counted'] = hit_count_response.hit_counted
        hitcontext['hit_message'] = hit_count_response.hit_message
        hitcontext['total_hits'] = hits
    comments = news.comments.filter(active = True)
    comment_count = comments.count()
    comments = news.comments.filter(active=True)
    new comment = None
    if request.method == 'POST':
        comment_form = CommentForm(data=request.POST)
        if comment form.is valid():
            new_comment = comment_form.save(commit=False)
            new comment.news = news
            new comment.user = request.user
            new comment.save()
```

```
comment_form = CommentForm()
    else:
        comment_form = CommentForm()
    context = {
        "news": news,
        "comments": comments,
        "new_comment": new_comment,
        "comment form": comment form,
        "comment_count": comment_count
    return render(request, 'news/news_detail.html', context)
def homePageView(request):
    categories = Category.objects.all()
    news_list = News.objects.filter(status=News.Status.Published).order_by('-
publish time')[:5]
    cybersport_news_one = News.objects.filter(status=News.Status.Published,
category name='KiberSport').order by(
        '-publish time')[:1]
    cybersport news = News.objects.filter(status=News.Status.Published,
category__name='KiberSport').order_by(
        '-publish_time')[1:6]
    context = {
        'news_list': news_list,
        'categories': categories,
        'cybersport_news_one': cybersport_news_one,
        'cybersport_news': cybersport_news
    return render(request, 'news/home.html', context)
class HomePageView(ListView):
    model = News
    template_name = 'news/home.html'
    context object name = 'name'
    def get_context_data(self, **kwargs):
        context = super().get context data(**kwargs)
        context['categories'] = Category.objects.all()
        context['news list'] =
News.objects.filter(status=News.Status.Published).order_by('-publish_time')[:4]
        # context['cybersport_news one'] =
News.objects.filter(status=News.Status.Published,
```

```
category__name='KiberSport').order_by('-publish_time')[:1]
        context['kibersport_xabarlar'] =
News.objects.filter(status=News.Status.Published,
 category__name='KiberSport').order_by('-publish_time')[:5]
        context['ctf'] = News.objects.filter(status=News.Status.Published,
                                              category__name='CTF').order_by('-
publish time')[:5]
        context['kiberjinoyatlar'] =
News.objects.filter(status=News.Status.Published,
 category__name='KiberJinoyatchilik').order_by('-publish_time')[
                                     :5]
        context['texnologiyalar'] =
News.objects.filter(status=News.Status.Published,
category__name='Texnologiyalar').order_by('-publish time')[:5]
        return context
class ContactPageView(TemplateView):
    template_name = 'news/contact.html'
    def get(self, request, *args, **kwargs):
        form = ContactForm()
        context = {
            "form": form
        return render(request, 'news/contact.html', context)
    def post(self, request, *args, **kwargs):
        form = ContactForm(request.POST)
        if request.method == 'POST' and form.is_valid():
            form.save()
            return HttpResponse("<h2> Biz bilan bog'langaningiz uchun
tashakkur!</h2>")
        context = {
            "form": form
        return render(request, 'news/contact.html', context)
def errorPageView(request):
    context = {
```

```
return render(request, 'news/404.html', context)
class KiberSportView(ListView):
    model = News
    template name = 'news/kibersport.html'
    context_object_name = 'kibersportnews'
    def get_queryset(self):
        news = News.objects.filter(status=News.Status.Published,
category name='KiberSport')
        return news
class CtfViews(ListView):
    model = News
    template name = 'news/ctf.html'
    context_object_name = 'ctfnews'
    def get queryset(self):
        news = News.objects.filter(status=News.Status.Published,
category__name='CTF')
        return news
class TexnologiyalarViews(ListView):
    model = News
    template_name = 'news/texnologiyalar.html'
    context object name = 'texnologiyalarnews'
    def get queryset(self):
        news = News.objects.filter(status=News.Status.Published,
category name='Texnologiyalar')
        return news
class KiberjinoyatlarViews(ListView):
    model = News
    template_name = 'news/kiberjinoyatlar.html'
    context_object_name = 'kiberjinoyatlarnews'
    def get_queryset(self):
        news = News.objects.filter(status=News.Status.Published,
category__name='KiberJinoyatchilik')
        return news
class NewsUpdateView(OnlyLoggedSuperUser, UpdateView):
```

```
model = News
    fields = ('title', 'body', 'image', 'category', 'image')
    template_name = 'crud/news_edit.html'
class NewsDeleteView(OnlyLoggedSuperUser, DeleteView):
    model = News
    template name = 'crud/news delete.html'
    success_url = reverse_lazy('home_page')
class NewsCreateView(OnlyLoggedSuperUser, CreateView):
    model = News
    template_name = 'crud/news_create.html'
    fields = ('title', 'title_uz', 'title_en', 'title_ru', 'slug',
              'body', 'body_uz', 'body_en', 'body_ru', 'image',
              'category', 'status')
@login_required
@user_passes_test(lambda u: u.is_superuser)
def admin_page_view(request):
    admin_users = User.objects.filter(is_superuser=True)
    context = {
        'admin_users': admin_users
    return render(request, 'pages/admin_page.html', context)
class SearchResultsList(ListView):
    model = News
    template_name = 'news/search_result.html'
    context_object_name = 'barcha_yangiliklar'
    def get queryset(self):
        query = self.request.GET.get('q')
        return News.objects.filter(
            Q(title icontains=query) | Q(body icontains=query)
```

Saytning accounts.models qismi kodi:

```
from django.contrib.auth.models import User
from django.db import models
```

Saytning accounts.views qismi kodi:

```
from django.contrib.auth.decorators import login_required
from django.contrib.auth.mixins import LoginRequiredMixin
from django.shortcuts import render
from django.http import HttpResponse
from django.contrib.auth import authenticate, login
from django.contrib.auth.forms import UserCreationForm
from django.template import RequestContext
from django.views import View
from django.shortcuts import redirect
from .forms import LoginForm, UserRegistrationForm, UserEditForm, ProfileEditForm
from django.views.generic import CreateView
from django.urls import reverse lazy
from .models import Profile
def user_login(request):
    if request.method == 'POST':
        form = LoginForm(request.POST)
        if form.is_valid():
            data = form.cleaned_data
            user = authenticate(request,
                                username=data['username'],
                                password=data['password']
            if user is not None:
                if user.is_active:
                    login(request, user)
                    return HttpResponse('Muvaffaqiyatli login amalga oshirildi!')
                else:
                    return HttpResponse('Sizning profilingiz faol holatda emas!')
            else:
                return HttpResponse('Login va parolda hatolik bor!')
```

```
else:
        form = LoginForm()
        context = {
            'form': form
    return render(request, 'registration/login.html', {'form': form})
@login_required
def dashboard_views(request):
    user = request.user
    profil_info = Profile.objects.get(user=user)
    context = {
        'user': user,
        'profil_info': profil_info
    return render(request, 'pages/user-profile.html', context)
def user_register(request):
    if request.method == 'POST':
        user_form = UserRegistrationForm(request.POST)
        if user_form.is_valid():
            new_user = user_form.save(commit=False)
            new_user.set_password(
                user_form.cleaned_data['password']
            new_user.save()
            Profile.objects.create(user=new_user)
            context = {
                'new_user': new_user
            return render(request, 'account/register_done.html', context)
    else:
        user_form = UserRegistrationForm()
        context = {
            'user_form': user_form
        return render(request, 'account/register.html', context)
class SignUpView(CreateView):
    form class = UserCreationForm
    success_url = reverse_lazy('login')
    template_name = 'account/register.html'
```

```
@login_required
def edit user(request):
    if request.method == 'POST':
        user_form = UserEditForm(instance=request.user, data=request.POST)
        profile_form = ProfileEditForm(instance=request.user.profile,
                                       data=request.POST,
                                       files=request.FILES
        if user_form.is_valid() and profile_form.is_valid():
            user_form.save()
            profile_form.save()
            return redirect('user_profile')
    else:
        user form = UserEditForm(instance=request.user)
        profile_form = ProfileEditForm(instance=request.user.profile)
    return render(request, 'account/profile_edit.html', {"user_form": user_form,
"profile_form": profile_form})
class EditUserView(LoginRequiredMixin, View):
    def get(self, request):
        user_form = UserEditForm(instance=request.user)
        profile_form = ProfileEditForm(instance=request.user.profile)
        return render(request, 'account/profile_edit.html', {"user_form":
user_form, "profile_form": profile_form})
    def post(self, request):
        user_form = UserEditForm(instance=request.user, data=request.POST)
        profile_form = ProfileEditForm(instance=request.user.profile,
                                       data=request.POST,
                                       files=request.FILES
        if user_form.is_valid() and profile_form.is_valid():
            user_form.save()
            profile form.save()
            return redirect('user_profile')
```

Saytning asosiy settings.py qismi:

```
from pathlib import Path
from decouple import config
BASE_DIR = Path(__file__).resolve().parent.parent
SECRET_KEY = config('SECRET_KEY')
DEBUG = config('DEBUG', default=False, cast=bool)
ALLOWED_HOSTS = ["127.0.0.1", "cyber-news.uz", "www.cyber-news.uz"]
INSTALLED APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'news_app',
    'accounts',
    'hitcount',
    'modeltranslation',
    'whitenoise.runserver_nostatic',
MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'whitenoise.middleware.WhiteNoiseMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    "django.middleware.locale.LocaleMiddleware",
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
ROOT_URLCONF = 'news_project.urls'
TEMPLATES = [
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [BASE_DIR / "templates"],
        'APP DIRS': True,
        'OPTIONS': {
            'context processors': [
```

```
'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
                'news_app.context_processor.latest_news',
            ],
        },
    },
WSGI_APPLICATION = 'news_project.wsgi.application'
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
AUTH_PASSWORD_VALIDATORS = [
        'NAME':
django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
LANGUAGE_CODE = 'uz'
TIME_ZONE = 'Asia/Tashkent'
USE_I18N = True
USE TZ = True
from django.utils.translation import gettext_lazy as _
LANGUAGES = [
    ('uz', _("Uzbek")),
```

```
('en', _("English")),
    ('ru', _("Russian"))
MODELTRANSLATION_DEFAULT_LANGUAGE = 'en'
LOCALE_PATH = BASE_DIR, 'locale'
STATIC_URL = 'static/'
STATIC_ROOT = '/home/cybernew/cyber-news.uz/django/staticfiles'
STATICFILES_DIRS = ('/home/cybernew/cyber-news.uz/django/static', )
STATICFILES_FINDERS = [
    'django.contrib.staticfiles.finders.FileSystemFinder',
    'django.contrib.staticfiles.finders.AppDirectoriesFinder'
MEDIA_URL = 'media/'
MEDIA_ROOT = '/home/cybernew/cyber-news.uz/django/media'
DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
LOGIN_REDIRECT_URL = 'home_page'
EMAIL_BACKEND = 'django.core.mail.backends.console.EmailBackend'
LOGIN_URL = 'login'
STATICFILES_STORAGE = 'whitenoise.storage.CompressedManifestStaticFilesStorage'
```