



MYSORE UNIVERSITY SCHOOL OF ENGINEERING

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UNIVERSITY OF MYSORE

Full Stack Development(21CD71) Assessment Report On:

“Multi-Page Blogging System”

**Under the guidance :
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Q.5 Create a Multi-Page Blogging System with the following features:

Users can write blog posts containing a title, author, content, and published date.

- ☐ Use Django's generic CreateView, ListView, and DetailView to manage blogs.
- ☐ Implement multiple URL configurations:
 - ☐ /blogs/ → List all blog posts
 - ☐ /blogs/<int:id>/ → Display a single blog post
 - ☐ /blogs/new/ → Allow users to create a new blog post
- ☐ Use reverse_lazy() to redirect users to the blog list after successfully posting an article.

Introduction:

This Django-based Blogging System enables users to create and manage blog posts. It supports the following features:

- Users can write blog posts containing a title, author, content, and published date.
- The system uses Django's generic views (CreateView, ListView, and DetailView) to manage blogs.
- Multiple URL configurations are implemented:
 - /blogs/ – List all blog posts.
 - /blogs/<int:pk>/ – Display a single blog post.
 - /blogs/new/ – Allow users to create a new blog post.
- After submission, users are redirected to the blog list page using reverse_lazy() with a success message.

Project Overview:

blog_system/

- | — manage.py
- | — db.sqlite3
- | — blog_system/
 - | | — __init__.py
 - | | — settings.py
 - | | — urls.py
 - | | — asgi.py
 - | | — wsgi.py
- | — blog/
 - | | — __init__.py
 - | | — admin.py
 - | | — apps.py
 - | | — models.py
 - | | — tests.py
 - | | — views.py
 - | | — urls.py
 - | | — migrations/
 - | | | — templates/
 - | | | | — blog/
 - | | | | | — blog_list.html
 - | | | | | — blog_detail.html
 - | | | | | — blog_form.html
- | — ven

v/ (Virtual Environment)

Detailed Steps of Implementation:

Step 1: Install Django and Create a Virtual Environment

- Create a virtual environment:

```
python -m venv venv
```

Activate the virtual environment:

- On Windows:

```
venv\Scripts\activate
```

- On macOS/Linux:

```
source venv/bin/activate
```

Install Django:

```
pip install Django
```

Step 2: Create a Django Project

```
django-admin startproject blog_system
```

```
cd blog_system
```

Step 3: Create a Django App

```
python manage.py startapp blog
```

Step 4: Configure settings.py

- Open blog_system/settings.py and add 'blog' to the INSTALLED_APPS list.
- Ensure APP_DIRS is set to True in the TEMPLATES setting.

Step 5: Create the Blog Post Model

- In blog/models.py, define

```
• # Create your models here.  
• from django.db import models  
•  
• class BlogPost(models.Model):  
•     title = models.CharField(max_length=200)  
•     author = models.CharField(max_length=100)  
•     content = models.TextField()
```

```

•     published_date = models.DateTimeField() # Enter manually (e.g.,
      "2025-02-23 14:30:00")
•
•     def __str__(self):
•         return self.title
•

```

Run migrations:

python manage.py makemigrations

python manage.py migrate

Step 6: Register the Model in Admin

- In `blog/admin.py`, register the model:

```

• from django.contrib import admin
• from .models import BlogPost
•
• class BlogPostAdmin(admin.ModelAdmin):
•     list_display = ('title', 'author', 'published_date') # Display
      these fields in the list
•     search_fields = ('title', 'author') # Enable search by title or
      author
•     list_filter = ('published_date',) # Filter posts by date
•
• admin.site.register(BlogPost, BlogPostAdmin)
•

```

Step 7: Create Views for the Blogging System

- In `blog/views.py`, implement:

```

• from django.shortcuts import render
• from django.urls import reverse_lazy
• from django.views.generic import ListView, DetailView, CreateView
• from django.contrib import messages
• from .models import BlogPost
•
• class BlogListView(ListView):
•     model = BlogPost
•     template_name = 'blog/blog_list.html'
•     context_object_name = 'blogs'
•
• class BlogDetailView(DetailView):
•     model = BlogPost
•     template_name = 'blog/blog_detail.html'

```

```

•     context_object_name = 'blog'
•
•     class BlogCreateView(CreateView):
•         model = BlogPost
•         template_name = 'blog/blog_forms.html'
•         fields = ["title", "author", "content", "published_date"]
•         success_url = reverse_lazy('blog_list')
•
•         def form_valid(self, form):
•             response = super().form_valid(form)
•             messages.success(self.request, "Blog post successfully
submitted!")
•             return response

```

Step 8: Configure URLs

- In `blog/urls.py`:

```

• from django.urls import path
• from .views import BlogListView, BlogDetailView, BlogCreateView
•
• urlpatterns = [
•     path('', BlogListView.as_view(), name='blog_list'),
•     path('<int:pk>/', BlogDetailView.as_view(), name='blog_detail'),
•     path('new/', BlogCreateView.as_view(), name='blog_create'),
• ]
•

```

- In `blog_system/urls.py`:

```

• from django.contrib import admin
• from django.urls import path, include
• from django.views.generic import RedirectView
•
• urlpatterns = [
•     path('admin/', admin.site.urls),
•     path('blogs/', include('blog.urls')), # Blog app URLs
•     path('', RedirectView.as_view(url='/blogs/', permanent=True)), #
Redirect '/' to '/blogs/'
• ]
•

```

Step 9: Create HTML Templates

- `blog_list.html`:

```

• <!DOCTYPE html>
• <html>
• <head>
• <!DOCTYPE html>
• <html>
• <head>
•     <title>Blog List</title>
• </head>
• <body>
•     <!-- Display messages -->
•     {% if messages %}
•         <ul class="messages">
•             {% for message in messages %}
•                 <li{% if message.tags %} class="{% message.tags %}"{% endif
%}>
•                     {{ message }}
•                 </li>
•             {% endfor %}
•         </ul>
•     {% endif %}
•
•     <h1>All Blog Posts</h1>
•     <a href="{% url 'blog_create' %}">Create New Blog Post</a>
•     <hr>
•     <p>Number of blogs: {{ blogs|length }}</p>
•     {% if blogs %}
•         <ul>
•             {% for blog in blogs %}
•                 <li>
•                     <a href="{% url 'blog_detail' blog.pk %}">{{
blog.title }}</a>
•                     by {{ blog.author }} on {{ blog.published_date }}
•                 </li>
•             {% endfor %}
•         </ul>
•     {% else %}
•         <p>No blog posts available. Be the first to create one!</p>
•     {% endif %}
• </body>
• </html>
•

```

- **blog_detail.html:**

```

<!DOCTYPE html>
<html>

```

```

<head>
  <title>{{ blog.title }}</title>
</head>
<body>
  <h1>{{ blog.title }}</h1>
  <p><strong>Author:</strong> {{ blog.author }}</p>
  <p><strong>Published Date:</strong> {{ blog.published_date }}</p>
  <p>{{ blog.content }}</p>

  <hr>
  <a href="{% url 'blog_list' %}">Back to Blog List</a>
</body>
</html>

```

- **blog_forms.html:**

```

<!DOCTYPE html>
<html>
<head>
  <title>Create a New Blog Post</title>
</head>
<body>
  <h1>Create a New Blog Post</h1>
  <form method="post">
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit">Submit</button>
  </form>
  <hr>
  <a href="{% url 'blog_list' %}">Back to Blog List</a>
</body>
</html>

```

Step 10: Create a Superuser (Optional for Admin Access)

- Run:


```
python manage.py createsuperuser
```


Step 11: Run the Django Development Server

- Run:

```
python manage.py runserver
```

Conclusion:

You have successfully implemented a Django-based Blogging System with the following features:

- Users can create blog posts with a title, author, content, and published date.
- The system uses Django's generic CreateView, ListView, and DetailView.
- URL configurations include:
 - /blogs/ – List all blog posts.
 - /blogs/<int:pk>/ – Display a single blog post.
 - /blogs/new/ – Create a new blog post.
- After submission, users are redirected to the blog list page with a success message using `reverse_lazy()`.

Output:



All Blog Posts

[Create New Blog Post](#)

No blog posts available. Be the first to create one!



Create a New Blog Post

Title:

Author:

Content:

The Blog System is a platform designed for seamless content creation and sharing. It allows users to write and publish engaging blog posts effortlessly. With a user-friendly interface, managing blogs becomes simple and efficient.

Content:

Published date:

[Back to Blog List](#)



All Blog Posts

[Create New Blog Post](#)

Number of blogs: 2

- [My Blog System](#) by Nishchitha Gowda S on Feb. 2, 2025, midnight
- [My 1st Blog](#) by Nish on Feb. 1, 2025, midnight



My 1st Blog

Author: Nish

Published Date: Feb. 1, 2025, midnight

"Welcome to my inaugural blog post. In this space, I'll share my thoughts and experiences. Each entry is crafted with passion and precision. I look forward to growing and learning through this journey. Stay tuned for more insights and stories from Nishchitha."

[Back to Blog List](#)

GitHub Link: <https://github.com/NishhGowda/Multipage-Blog-System.git>