

# **Python Project**

On

## **BLOG WEBSITE** **PROJECT**

Second Year of Engineering in Computer Engineering

By

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**2020 – 2021**

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# CHAPTER 1

## PROBLEM DEFINATION

In recent past time blogs were store in the paper files and difficult to search or modify any information, for expanding the blogs infrastructure, awareness of environmental issues or any other issues related to education, health, digital technology, and search for greater safety give to information to all persons in all age groups and a new role within the education system, we chose this project.

We wanted to create a blog website where the administrator can **share** and post a blog online. This blog would be **read** by the visitors of the blogs website. We think that the blog is your best bet for a voice amongst the online crowd and thus wanted to solve this problem with our own solution using a high-level Python Web framework called Django.

## CHAPTER 2

### MODULES

#### admin:

Admin modules is used to store the information about the post in database. This module calls the post class in models.py with the help of post class it saves the data of the post in database.

#### models:

Model modules declare the data to be stored and its types and parameters and its class are called by the admin model to store the data in database.

#### urls:

The Url modules is responsible to allocate the url to the main page as well as the detailed single blog page.

#### view:

View Model is called to display the main page and single blog page it also provide the list of blogs from database to the main page.

# CHAPTER 3

## DATABASE

### Blog\_post Schema

blog_post
id integer (auto increment)
title varchar(200)
slug varchar(200)
updated_on datetime
content text
created_on datetime
status integer
author_id integer

### Auth\_user Schema

auth_user
id integer (auto increment)
password varchar(128)
last_login datetime
is_superuser bool
username varchar(150)
first_name varchar(30)
email varchar(254)
is_staff bool
is_active bool
date_joined datetime
last_name varchar(150)

# CHAPTER 4

## IMPLEMENTATION

### admin.py:

```
from django.contrib import admin
from .models import Post
class PostAdmin(admin.ModelAdmin):
    list_display = ('title', 'slug', 'status', 'created_on')
    list_filter = ("status",)
    search_fields = ['title', 'content']
    prepopulated_fields = {'slug': ('title',)}
admin.site.register(Post, PostAdmin)
```

### models.py:

```
from django.db import models
from django.contrib.auth.models import User
STATUS = (
    (0, "Draft"),
    (1, "Publish")
)
class Post(models.Model):
    title = models.CharField(max_length=200, unique=True)
    slug = models.SlugField(max_length=200, unique=True)
    author = models.ForeignKey(User, on_delete=models.CASCADE,
related_name='blog_posts')
    updated_on = models.DateTimeField(auto_now=True)
    content = models.TextField()
    created_on = models.DateTimeField(auto_now_add=True)
    status = models.IntegerField(choices=STATUS, default=0)
    class Meta:
        ordering = ['-created_on']
    def __str__(self):
        return self.title
```

### urls.py:

```
from . import views
from django.urls import path

urlpatterns = [
    path('', views.PostList.as_view(), name='home'),
    path('<slug:slug>/', views.PostDetail.as_view(), name='post_detail'),
]
```

### view.py:

```
from django.views import generic
from .models import Post
class PostList(generic.ListView):
    queryset = Post.objects.filter(status=1).order_by('-created_on')
    template_name = 'index.html'
class PostDetail(generic.DetailView):
    model = Post
    template_name = 'post_detail.html'
```

### app.py:

```
from django.apps import AppConfig
```

```
class BlogConfig(AppConfig):  
    name = 'blog'
```

### base.html:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>Mind Blogs</title>  
  
    <link  
      href="https://fonts.googleapis.com/css?family=Roboto:400,700"  
      rel="stylesheet">  
    <meta name="google" content="notranslate" />  
    <meta name="viewport" content="width=device-width, initial-scale=1" />  
    <link  
      rel="stylesheet"  
      href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"  
      integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"  
      crossorigin="anonymous"  
    />  
  
  </head>  
  
  <body>  
    <style>  
      body {  
        font-family: "Roboto", sans-serif;  
        font-size: 17px;  
        background-color: #fdfdfd;  
      }  
  
      .shadow{  
        box-shadow: 0 4px 2px -2px rgba(0,0,0,0.1);  
      }  
  
      .btn-danger {  
        color: #fff;  
        background-color: #f00000;  
        border-color: #dc281e;  
      }  
  
      .masthead {  
        background:#3398E1;  
        height: auto;  
        padding-bottom: 15px;  
        box-shadow: 0 16px 48px #E3E7EB;  
        padding-top: 10px;  
      }  
    </style>  
  
    <!-- Navigation -->  
    <nav class="navbar navbar-expand-lg navbar-light bg-light shadow" id="mainNav">  
      <div class="container-fluid">  
        <a class="navbar-brand" href="{% url 'home' %}" >Blogs</a>  
        <button  
          class="navbar-toggler navbar-toggler-right"  
          type="button"  
          data-toggle="collapse"  
          data-target="#navbarResponsive"  
          aria-controls="navbarResponsive"  
          aria-expanded="false"  
          aria-label="Toggle navigation"
```

```

        >
        <span class="navbar-toggler-icon"></span>
    </button>

</div>
</div>
</nav>

    {% block content %}
    <!-- Content Goes here -->
    {% endblock content %}

<!-- Footer -->
<footer class="py-3 bg-grey">
    <p class="m-0 text-dark text-center "></p>
</footer>

</body>
</html>

```

### index.html:

```

{% extends "base.html" %}

{% block content %}
<style>

    body {
        font-family: "Roboto", sans-serif;
        font-size: 18px;
        background-color: #fdfdfd;
    }

    .head_text{
        color: white;
    }

    .card{
        box-shadow: 0 16px 48px #E3E7EB;
    }
</style>

    <header class="masthead" >
        <div class="overlay"></div>
        <div class="container">
            <div class="row">
                <div class=" col-md-8 col-md-10 mx-auto">
                    <div class="site-heading">
                        <h3 class=" site-heading my-4 mt-3 text-white"> Welcome
to my Mind Blog </h3>
                        <p class="text-light">Mind is an open platform where
readers find dynamic thinking &nbsp;
                        </p>
                    </div>
                </div>
            </div>
        </div>
    </div>

    <div class="container">
        <div class="row">

```



```

        <!-- Blog Entries Column -->
        <div class="col-md-8 mt-3 left">
            {% for post in post_list %}
                <div class="card mb-4" >
                    <div class="card-body">
                        <h2 class="card-title">{{ post.title }}</h2>
                        <p class="card-text text-muted h6">{{ post.author }} |
{{ post.created_on}} </p>

                        <p class="card-text">{{post.content|slice:".:200" }}</p>
                        <a href="{% url 'post_detail' post.slug %}" class="btn
btn-primary">Read More &rarr;</a>
                    </div>

                </div>
            {% endfor %}
        </div>
        {% block sidebar %}
            {% include 'sidebar.html' %}
        {% endblock sidebar %}
    </div>
{%endblock%}

```

### Post details.html:

```

{% extends 'base.html' %} {% block content %}

<div class="container">
    <div class="row">
        <div class="col-md-8 card mb-4 mt-3 left top">
            <div class="card-body">
                <h1>{% block title %} {{ object.title }} {% endblock title %}</h1>
                <p class=" text-muted">{{ post.author }} | {{ post.created_on
}}</p>
                <p class="card-text ">{{ object.content | safe }}</p>
            </div>
        </div>
        {% block sidebar %} {% include 'sidebar.html' %} {% endblock sidebar %}
    </div>
</div>

{% endblock content %}

```

### sidebar.html:

```

{% block sidebar %}

<style>
    .card{
        box-shadow: 0 16px 48px #E3E7EB;
    }
</style>

<!-- Sidebar Widgets Column -->
<div class="col-md-4 float-right ">
<div class="card my-4">
    <h5 class="card-header">About Us</h5>
    <div class="card-body">
        <p class="card-text"> The best ideas can change who we are. Mind

```

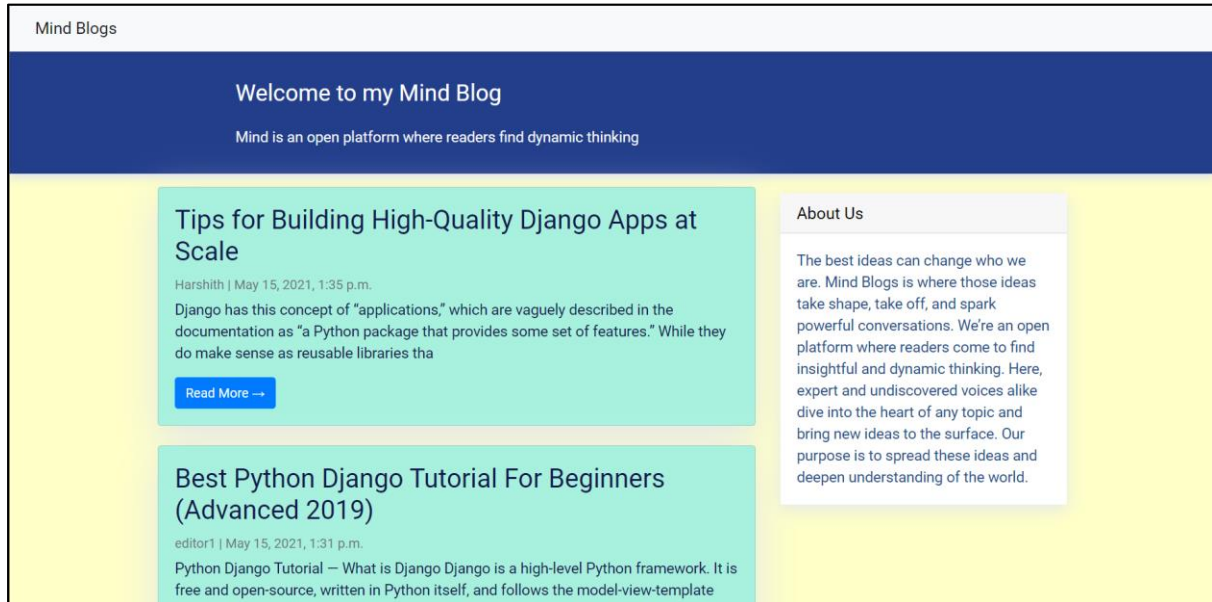
Blogs is where those ideas take shape, take off, and spark powerful conversations. We're an open platform where readers come to find insightful and dynamic thinking. Here, expert and undiscovered voices alike dive into the heart of any topic and bring new ideas to the surface. Our purpose is to spread these ideas and deepen understanding of the world.</p>

```
<a href="#"
  class="btn btn-danger">Know more!</a>
</div>
</div>
{% endblock sidebar %}
```

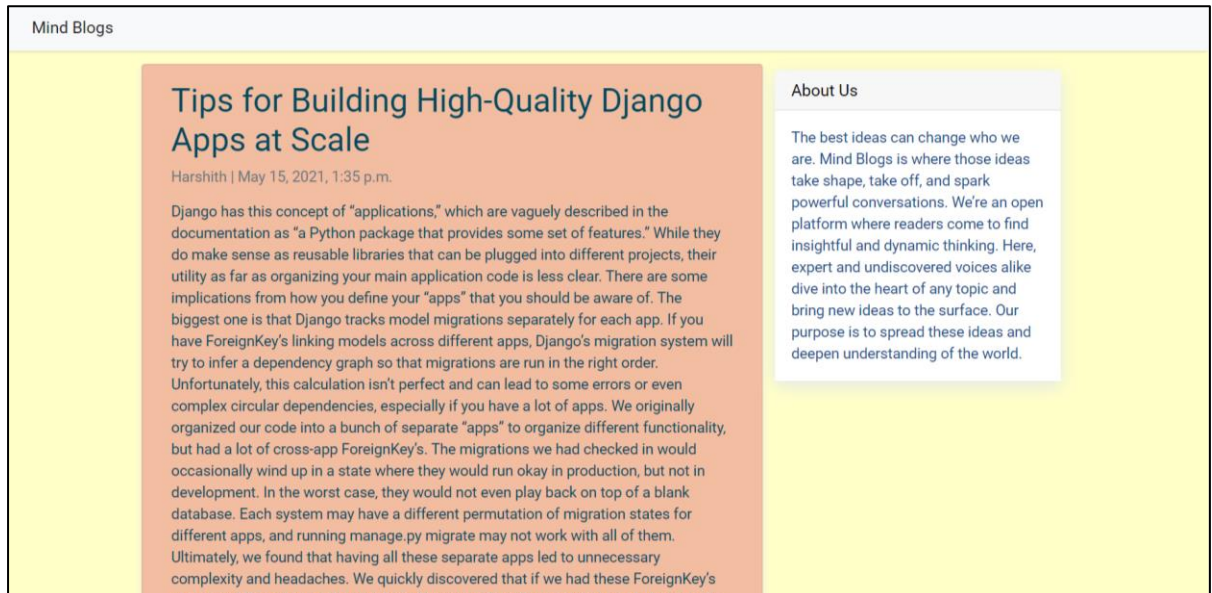
# CHAPTER 5

## RESULT

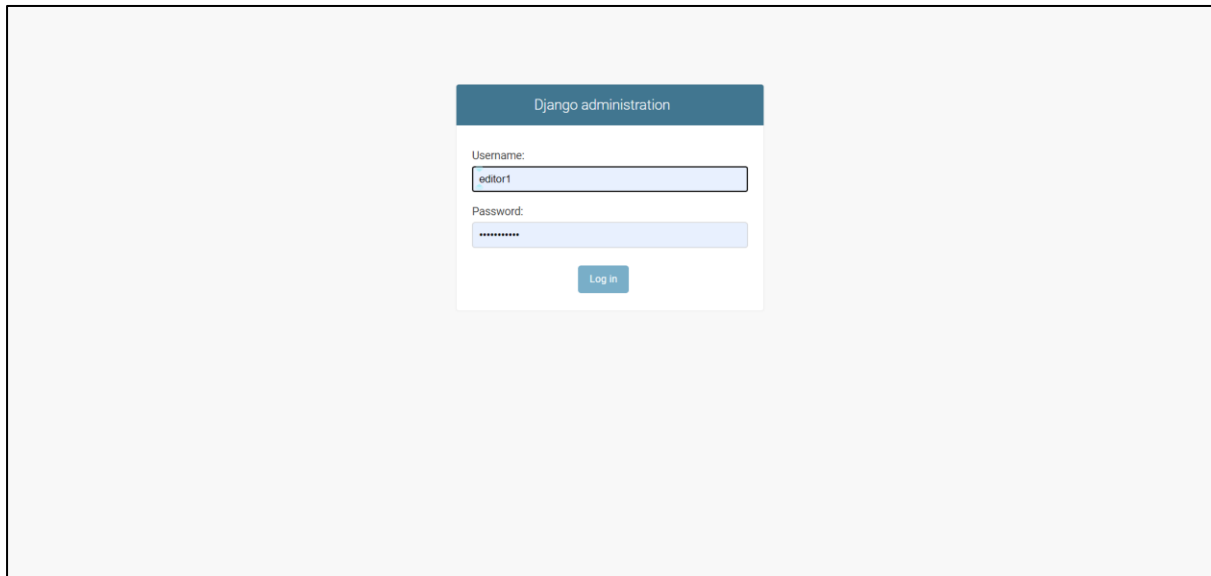
### Home Page:



### Single Post Page:

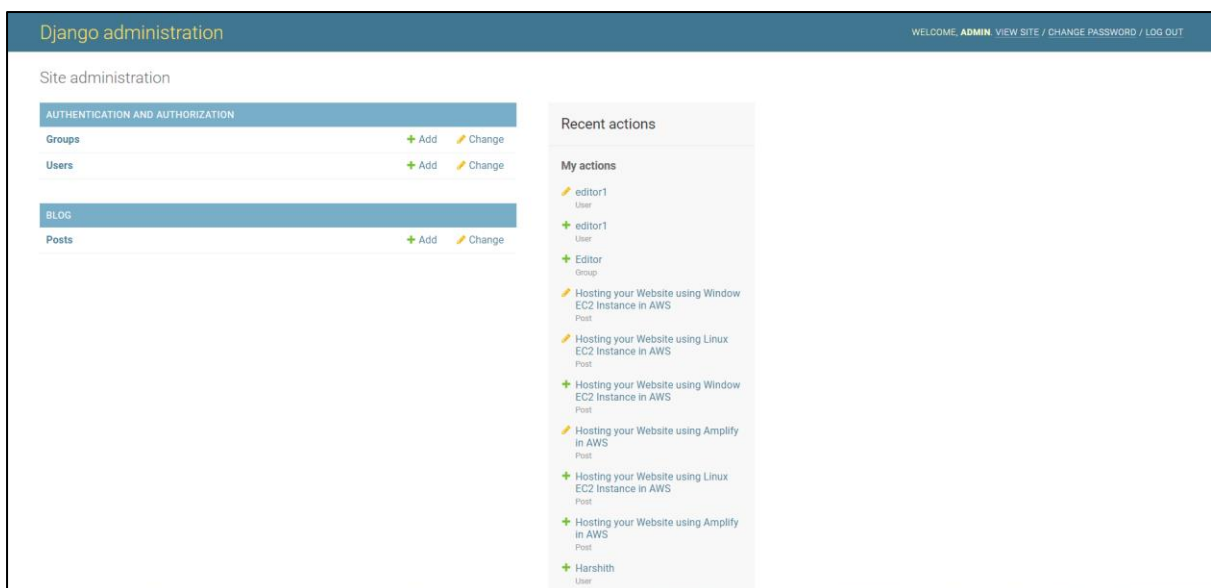


## Admin Login Page:



The image shows the Django administration login page. It features a central white box on a light gray background. The box has a dark blue header with the text "Django administration". Below the header, there are two input fields: "Username:" with the value "editor1" and "Password:" with a masked password "\*\*\*\*\*". A blue "Log in" button is positioned below the password field.

## Admin Home Page:



The image shows the Django administration home page. The page has a dark blue header with the text "Django administration" on the left and "WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT" on the right. Below the header, the page is divided into two main sections. The left section, titled "Site administration", contains two sub-sections: "AUTHENTICATION AND AUTHORIZATION" with links for "Groups" and "Users" (each with "Add" and "Change" links), and "BLOG" with a link for "Posts" (with "Add" and "Change" links). The right section, titled "Recent actions", contains a list of actions under the heading "My actions". The actions include: "editor1" (User), "editor1" (User), "Editor" (Group), "Hosting your Website using Window EC2 Instance in AWS" (Post), "Hosting your Website using Linux EC2 Instance in AWS" (Post), "Hosting your Website using Window EC2 Instance in AWS" (Post), "Hosting your Website using Amplify in AWS" (Post), "Hosting your Website using Linux EC2 Instance in AWS" (Post), "Hosting your Website using Amplify in AWS" (Post), and "Harshith" (User).

## Admin Home Page:

Django administration

WELCOME, **ADMIN** [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

[Home](#) / [Blog](#) / [Posts](#)

Select post to change

Search

Action:  Go 0 of 6 selected

<input type="checkbox"/>	TITLE	SLUG	STATUS	CREATED ON
<input type="checkbox"/>	Tips for Building High-Quality Django Apps at Scale	tips-building-high-quality-django-apps-scale	Publish	May 15, 2021, 1:35 p.m.
<input type="checkbox"/>	Best Python Django Tutorial For Beginners (Advanced 2019)	best-python-django-tutorial-beginners-advanced-2019	Publish	May 15, 2021, 1:31 p.m.
<input type="checkbox"/>	Django Basics for a Beginner	Django-basic	Publish	May 15, 2021, 1:29 p.m.
<input type="checkbox"/>	Hosting your Website using Window EC2 Instance in AWS	HOSTING-AWS-EC2-WINDOWS	Publish	May 11, 2021, 6:23 a.m.
<input type="checkbox"/>	Hosting your Website using Linux EC2 Instance in AWS	HOSTING-AWS-EC2-LINUX	Publish	May 11, 2021, 6:22 a.m.
<input type="checkbox"/>	Hosting your Website using Amplify in AWS	HOSTING-AWS-AMPLIFY	Publish	May 11, 2021, 6:20 a.m.

6 posts

FILTER

By status

All

Draft

Publish

ADD POST

## **CHAPTER 6**

### **CONCLUSION**

Working on this project has been very interesting as we got to know about advancement in the field of Graphical User Interface (GUI) technology. Also giving us an idea of development of a GUI based application using python's Django framework as language.

So, our work aims to develop a blog sharing website which is based on administrator needs and has proved to be useful in the midst of this pandemic, where not being able to attend university, and missing many events where we can share our thoughts is limited, this can help in search of similar minded people who share the same interest as the administrator of the blog.

# REFERENCE

1. Django documentation | Django documentation | Django (djangoproject.com)
2. Getting started with Django | Django (djangoproject.com)
3. <https://buildmedia.readthedocs.org/media/pdf/django/latest/django.pdf>