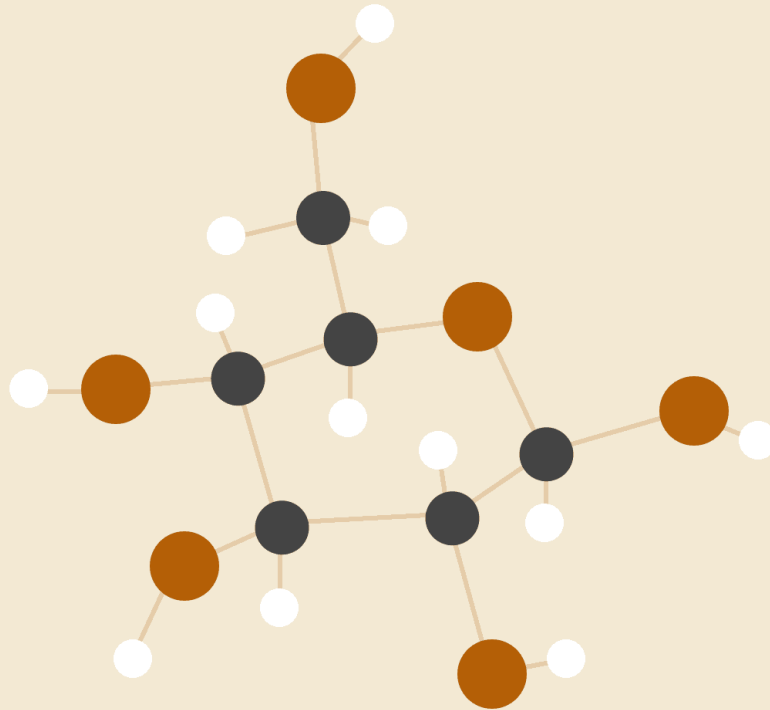


PROJECT FINAL REPORT

Blog website using Django with multiple features



BALBIR YADAV

13-07-2001

1st year UG, IIT Bombay

Introduction

We all know that these days write blogs and considering it as a source of income has become very popular. Many people across the world are working as a full time blogger. There are many website giving payout for writing blog for their website. We all already know about Quora.

What I want to do is, make our own website which facilitates writing blogs on whatever topic we want and publishing it on the internet very easily.

Thanks to python web Framework Django, Which makes it easier to develop websites with backend. I have created a blog website using django. This website makes it easier to write and publish blogs anytime and anywhere.

What is Django?

Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel. It's free and open source.

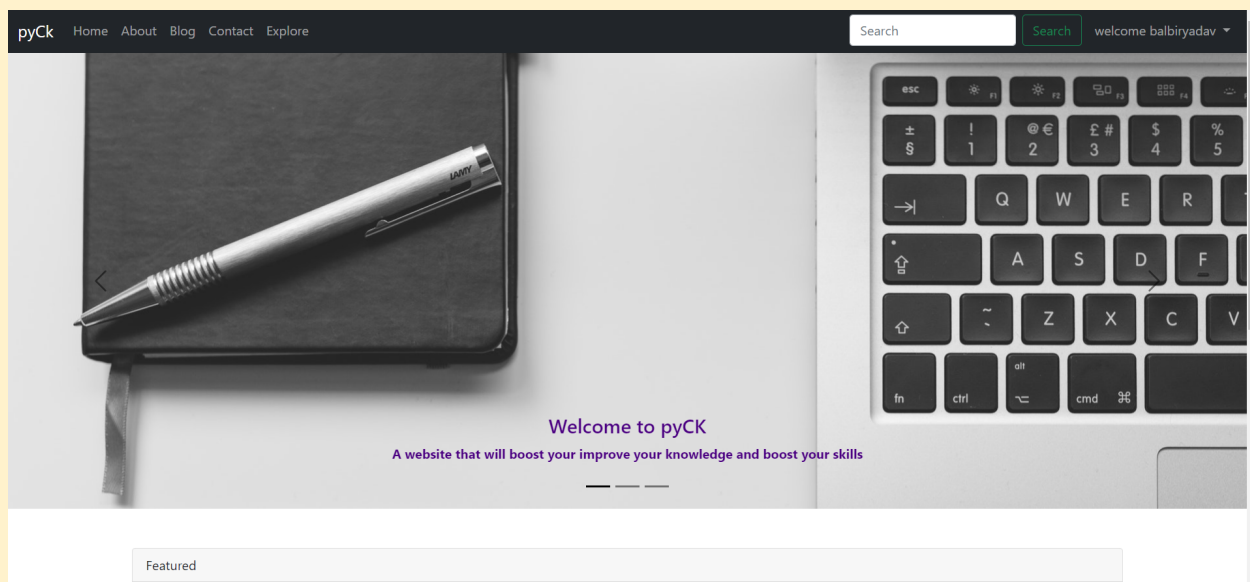
Now moving ahead I will explain the implementation of the Django in our blog website. Since there are so many files so while explaining I'll be using the name of those files directly. Please refer to the project repository for the files.

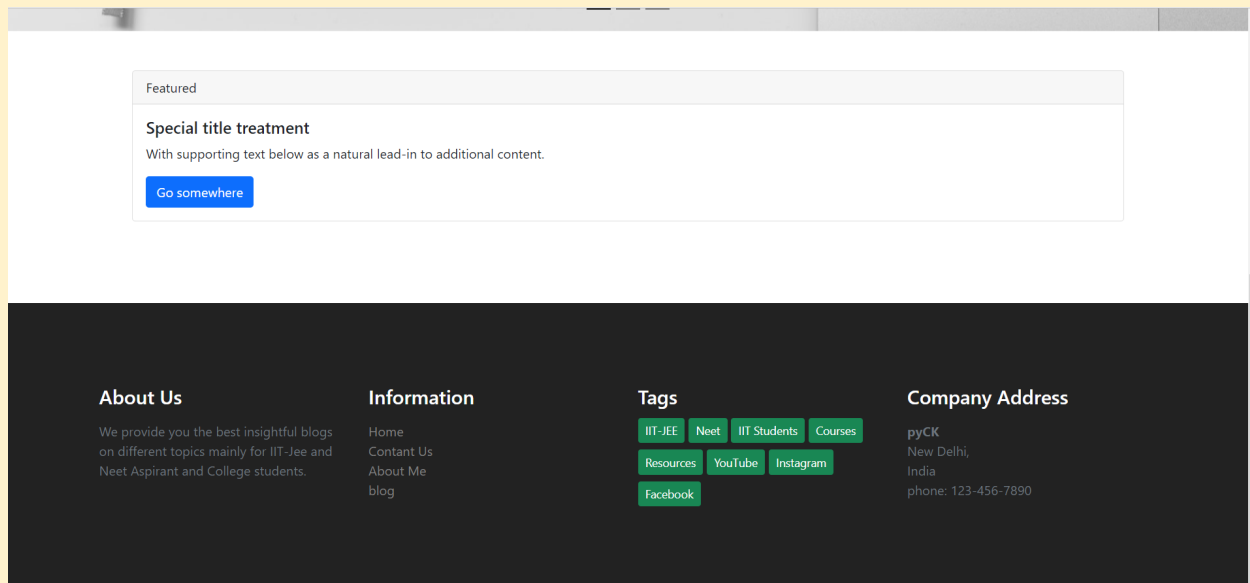
IMPLEMENTATION:

Landing Page:

When a user will search our domain in his/her browser, This is where he/she will land every time. This is the home page. In the **project.url** we have set it by default. In **home.views** I have defined the home function which is calls the template file home.html which has all the necessary codes for whatever user sees at the landing page.

In Landing page, We are featuring some of the blog posts randomly as of now. It has a navbar which shows all the options with which the user can interact. All the design in this page is designed with the help of Bootstrap.





Note: We have created a base.html file with the help of Bootstrap. We will use this template page in almost all the different template pages like home.html, about.html, blog.html etc. with the help of Django. It's a beauty of Django that we are using a single base.html everywhere with adding more details as per the requirement.

About:

When a user goes to `www.OurWebsiteDomain/about` he will land at about page. Implementation is pretty much the same as above. **Home.url** will call the about function in **Home.views** which is defined to call template **about.html**. This page uses a lot of CSS and Html. Stuffs are just copying and pasting.

Above two page setup was pretty much easy. It has nothing to do with the backend. It was just html, css and bootstrap and integrate page with the help of Django. Now we will do some backend as well.

About



Balbir Yadav

I'm a 2nd year UG student from the Department of Mechanical Engineering at IIT Bombay.

Birthday: 1 July 2001

Age: 20

Website: www.example.com

Degree: Undergrade Student

Phone: +123 456 7890

College: IIT Bombay

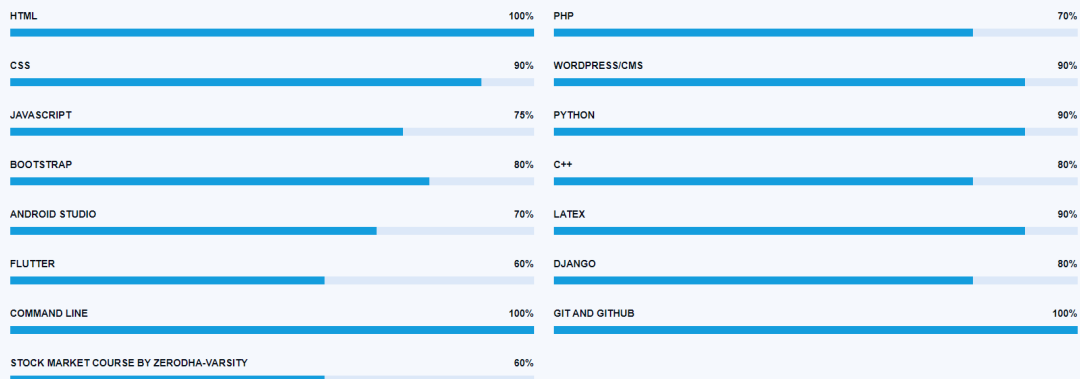
City: New Delhi, India

Email: balbir.iitbombay3602@gmail.com

When I was in 10th class, I dreamt to be an IITian and started looking for the best possible ways to get into IITs. I belong to a lower-middle-class uneducated background family with minimum resources and almost no guidance. I used to go to the Delhi govt. school. I was almost preparing for Jee on my own with the help of YouTube. I scored 98.28 percentile in Jee Mains 2019 and failed to qualify Jee Advanced and with that, I could fulfil my dream to be an IITian. Fortunately, I got a full 100% Scholarship from Kota Coaching. I worked really hard after going to Kota. Finally, I qualified for Jee Advanced to get into IIT Bombay.

Skills

I like learning different kind of new skills. I have explored in Web development, App Development, Personal Finance, Stock Market and Programming languages. Looking positively to add more skills to my resume. My favourite Programming language is python. Doing doing in python is fun. I can do coding in python for hours continuously.



Contact:

When a user goes to www.OurWebsiteDomain/contact he will land at the contact us page. Implementation is pretty much involved this time. First of

all we have created models with different fields in the form and made migration in the database.

```
# Create your models here.

class Contact(models.Model):
    sno=models.IntegerField(primary_key=True)
    name=models.CharField(max_length=256)
    email=models.EmailField(max_length=250)
    phone=models.CharField(max_length=13)
    feedback=models.TextField()
    timestamp=models.DateTimeField(auto_now_add=True,blank=True)
    def __str__(self):
        return 'Message form'+self.name
```

In home.urls we call the contact function from home.views which has all the fields that are mentioned in form in contact.html. By clicking submit data gets stored in the database. We have also defined some constraints on adding data to the database so that one cannot spam the database form. One successful submission I message will be visible that one has successfully submitted his/her form.

Message: Alert! Fill Your Details carefully! ×

Contact Our Team

Name

Email address

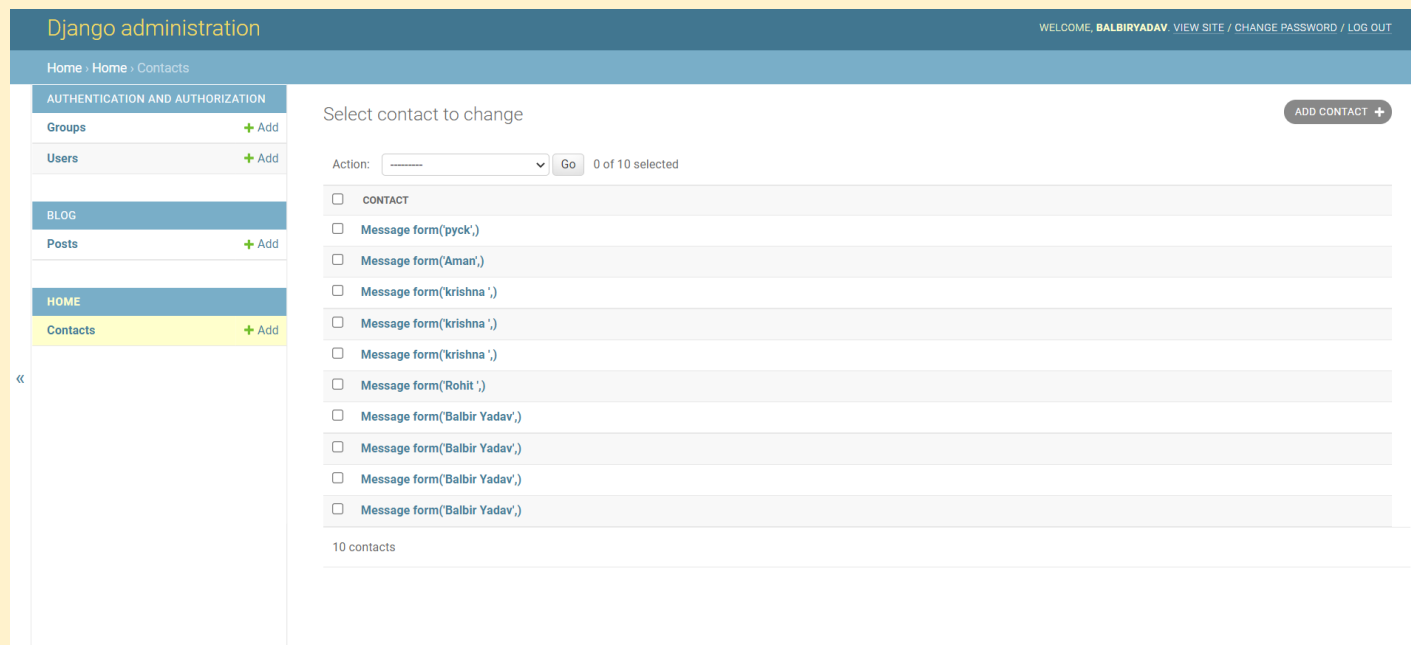
We'll never share your email with anyone else.

Phone No

Feedback

Accessing database & Superuser:

One of the best features of Django. `/admin` will open the backend and ask for username and password that we need to define in the editor by running commands in the terminal. See `README.md` for this command. Now after successful login we can see the contact/feedback submission as of now. We can modify them and access them as well. All the things we will integrate with the backend, can be found here.



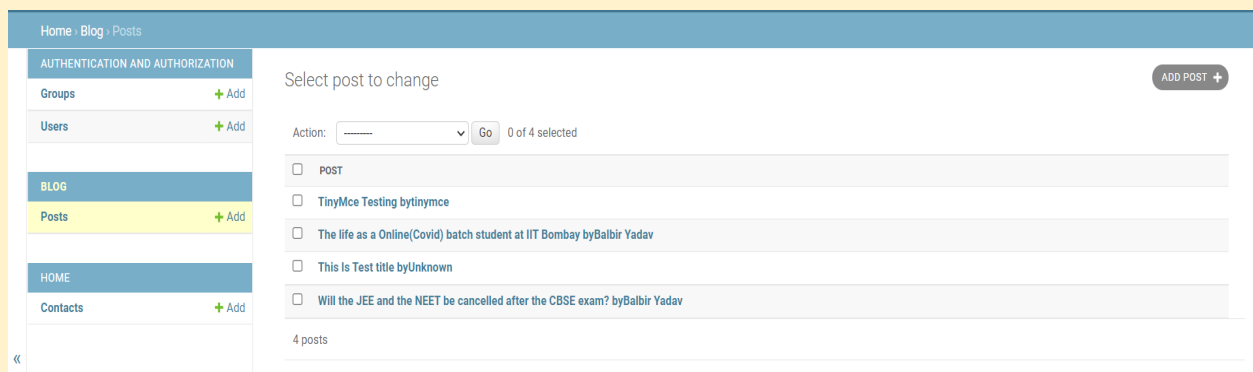
Blog:

First of all we have set up `blog.urls` such that if the user goes to `/blog` then will get lend at the blog page where we want to fetch and show all the blog posts from the database up till now. Now for that we need to create our backend accordingly. So in `blog.models` we have created class and defined all the fields required for blog post.

```
# Create your models here.
class Post(models.Model):
    sno=models.IntegerField(primary_key=True)
    title=models.CharField(max_length=256)
    content=models.TextField()
    author=models.CharField(max_length=250)
    slug=models.CharField(max_length=130)
    timestamp=models.DateTimeField(timezone.now())
    def __str__(self):
        return self.title+' by '+self.author
```

After defining all the fields, we need to integrate it to the backend and for that we need to run the migrate command in the terminal. Finally we have all the fields in the backend. We can write as many blogs as we want in the backend very easily.

Here are screenshots of /admin page of blogs



Here is the screenshot where we can write our blog in the backend.

«

Groups + Add

Users + Add

BLOG

Posts + Add

HOME

Contacts + Add

Add post

Sno:

Title:

Content:

Author:

Slug:

2021-07-13 05:27:19.442751+00:00: Date: Today

Time: Now

Note: You are 5.5 hours ahead of server time.

Once we got ready with the blogs in the backend, we fetch them at the blog.html page. This is how we set up our blog page.

We are showing only the title and a few lines of the blog. We have given a button “continue reading” where users can click and read the full blog/article.

For showing full content of the blog we have created another template which fetches the full blog from the database.

Here is how blog page looks like

Balbir Yadav

Will the JEE and the NEET be cancelled after the CBSE exam?

Why are you thinking about cancellation? you guys cannot afford the cancellation of JEE and NEET. The logic goes like this: Just think about an aspirant, who has already taken drop last year. He is already going 1 year behind. Cancellation will make him under a lot of pressure of being at the same point where he was 2 years ago. Increase in the number of aspirants competing for the same nu...

[CONTINUE READING](#)

July 1, 2021, 9:56 a.m.

Unknown

This Is Test title

this is going to be the test content in the content section in order to check whether it is working or not. Let me see if this works or not. This is what I'm looking for this time. Something is literally better than nothing.

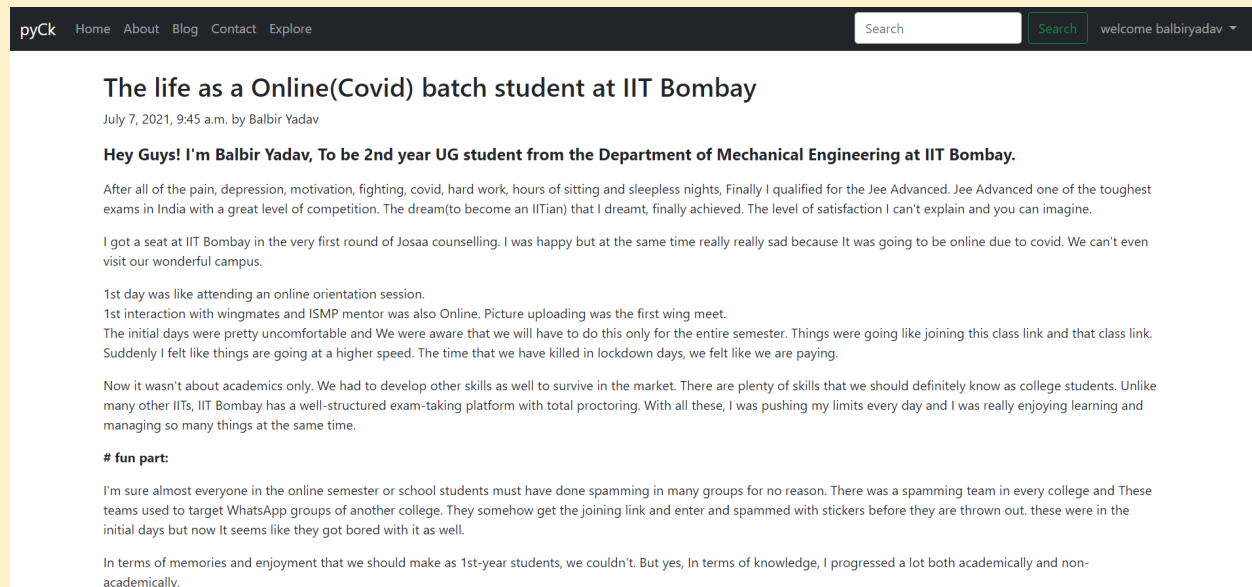
[CONTINUE READING](#)

July 1, 2021, 9:46 a.m.

Now after clicking on “Continue Reading” button we reach at blogpost page

where we have shown the complete content of the blog.

Have a look below:



The screenshot shows a web browser displaying a blog post. The header has a dark blue bar with the text 'pyCk' and navigation links 'Home About Blog Contact Explore'. A search bar with the placeholder 'Search' and a green 'Search' button is on the right, along with the text 'welcome balbiryadav'. The main content area has a white background. The title is 'The life as a Online(Covid) batch student at IIT Bombay' in bold. Below it is the date 'July 7, 2021, 9:45 a.m.' and the author 'by Balbir Yadav'. The post starts with a bold heading 'Hey Guys! I'm Balbir Yadav, To be 2nd year UG student from the Department of Mechanical Engineering at IIT Bombay.' followed by several paragraphs of text describing the author's experience as an online student during the COVID-19 pandemic. The text mentions the JEE Advanced exam, the challenges of online learning, and the author's progress. A section titled '# fun part:' follows, discussing spamming in WhatsApp groups. The post ends with a paragraph about memories and knowledge gained.

As of now we have the major part of this project now we are going to add some extra things like creating search options which facilitate the user to search the most related content he wants to read and also allow the user to login and logout.

Search Blog:

There is a search option at every page of this blog website where the user can enter the topic, keywords which he/she wants. We will filter out all the posts/blogs related to that query from the database and render a search.html page which shows the related blogs. If no match is found it will flash a message that no results are found with the given query.



The screenshot shows a dark blue search bar at the bottom of the page. It contains the text 'Jee' in a white font, a green 'Search' button, and the text 'welcome balbiryadav' on the right.

Search Results

Message: Most Matching results have been filtered for you. Happy reading!



Balbir Yadav

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CONTINUE READING

July 1, 2021, 9:56 a.m.

Balbir Yadav

The life as a Online(Covid) batch student at IIT Bombay

Hey Guys! I'm Balbir Yadav, To be 2nd year UG student from the Department of Mechanical Engineering at IIT Bombay.
 <p>After all of the pain, depression, motivation, fighting, covid, hard work, hours of sitting and sleepless nights, Finally I qualified for the Jee Advanced. Jee Advanced one of the toughest exams in India with a great level of competition. The dream(to become an IIT...

CONTINUE READING

Login & Logout

Finally we have created user authentication where readers can login and logout on our website. We have to search a lot over the internet for this section/part. Django had everything already cooked up. What we need to know is how to eat and where to go to eat them.

CONCLUSION

Django is really really awesome for developing websites both frontend and backend together without much hassle. It has already so many things cooked up. We just need to know how to use them. Our Project is about building a blogging website with the help of Django. Before starting this project, I had just heard the name of Django and I had no idea what it was. But after the course pyCK, I got to know that it's a web framework of Django. So I decided to make a project based on this.

For making a project based on Django, I had to learn this first. So I went ahead and learned the basics of Django from Django documentation and YouTube resources.

After learning about the basics of Django, I started working on this project. While working on this project, I was learning more. I had faced many challenges but searching over the internet and Youtube helped me a lot.

On our website users can sign up with their basic details and then login. He/She will have access to all the blog posts available. They can read whatever they want. They can search whatever they want to read with any keyword/query, Django website will filter blogs/posts related to that keyword/query. Users can send their feedback to the admin by contact us page. We can add more stuff in the future also.

REFERENCES

1. <https://docs.djangoproject.com/en/3.2/>
2. <https://stackoverflow.com/questions/tagged/django>
3. [youtube.com/codewithharry](https://www.youtube.com/channel/UCQV8cWgYDlGkuBvDVGp4S1w)