**Steps to Start a Django Project and Commit to GitHub**

1. **Create a Virtual Environment**:
   * Navigate to your project directory:
   * cd E:/Coding and Other Learning/Brototype/Tasks/Week4
   * Create a virtual environment:
   * python -m venv projects # Or use your preferred name for the virtual environment
2. **Create a .gitignore File**:
   * Add the following content to .gitignore to ignore unnecessary files:
   * # Python files
   * \*.pyc
   * \_\_pycache\_\_/
   * # Environment variables
   * .env
   * # Django stuff
   * db.sqlite3
   * media/
   * staticfiles/
   * # Virtual environment
   * projects/
   * # IDE files
   * .vscode/
   * .idea/
3. **Activate the Virtual Environment**:
   * For **Windows**:
   * .\projects\Scripts\activate
   * For **macOS/Linux**:
   * source projects/bin/activate
4. **Install Django**:
5. pip install django
6. **Create a Django Project**:
7. django-admin startproject myproject # Replace "myproject" with your desired project name
8. **Initialize Git**:
   * Navigate to your project directory:
   * cd myproject
   * Initialize the Git repository:
   * git init
9. **Add Files to Git**:
10. git add .
11. **Commit Your Changes**:
12. git commit -m "Initial commit: Start Django project"
13. git remote add origin <https://github.com/Tijo-11/week4>
14. git push -u origin master

With these steps, your Django project is now initialized and committed to Git. You can now push it to GitHub as described earlier.

As you continue working on your project and make changes, here’s the process to upload (commit and push) your changes to GitHub:

**Step-by-Step Process:**

1. **Check the Status of Your Changes**: First, you can check which files have changed by running:
2. git status

This will show you the modified or new files that are not yet staged for commit.

1. **Stage Your Changes**: To add your changes to the staging area, use:
2. git add .

This stages all the modified and new files. If you want to stage specific files, you can replace . with the file names:

git add filename.py

1. **Commit Your Changes**: After staging, you need to commit the changes with a meaningful message:
2. git commit -m "Your commit message describing the change"

Example:

git commit -m "Fix bug in user authentication"

1. **Push Your Changes to GitHub**: Finally, push the changes to your remote repository:
2. git push

Since you already set up the upstream with -u, you can just use git push in the future.

**Summary of Commands:**

1. git status — To see what’s changed.
2. git add . — To stage all changes (or git add filename for specific files).
3. git commit -m "message" — To commit your changes.
4. git push — To push your changes to GitHub.

The command django-admin startproject myproject can work without explicitly installing Django **because django-admin is often bundled with Python when you install Django**, and it can be accessed directly. However, if Django is not properly installed or the virtual environment is not activated, you will likely encounter an error when running commands like python manage.py startapp home.

Here’s why:

1. **django-admin startproject works because**:
   * When you install Django via pip, the django-admin command is available system-wide or in your virtual environment (if activated).
   * Running django-admin startproject myproject uses the Django management tool to generate the project folder structure, and it's likely you have Django installed globally or within your virtual environment.
2. **python manage.py startapp home fails because**:
   * The python manage.py command depends on the django package being installed in the active Python environment (your virtual environment in this case).
   * If you haven't activated the virtual environment or haven't installed Django properly in the environment, it will raise an error like:
   * ModuleNotFoundError: No module named 'django'

**Steps to Resolve:**

* **Ensure Django is installed in your virtual environment**:
  + Run pip show django to check if Django is installed.
  + If it’s not installed, run pip install django to install it.
* **Activate the Virtual Environment**:
  + If you're not in your virtual environment, activate it:
    - For Windows:
    - .\projects\Scripts\activate
    - For macOS/Linux:
    - source projects/bin/activate

Once you have activated the virtual environment and installed Django, you should be able to run python manage.py startapp home without any issues.

* init.py file is to read other files in the folder
* Models.py is used to access database
* Tests.py to test functionalities
* Whenever a create app add it to settings.py(of app level project directory(here project1)) as external\_apps and redefine installed\_apps=installed\_apps+external\_apps
* All the logical part is written in views.py
* Urls.py in app level is used for routing
  + From home.views import \*
  + Path(‘’, home, name=home)##blank suggests calling default port, that is 8000
  + Importance of name will be explained later
  + We have to register each function defined in the views.py file in urls.py routes
* Function based views:
  + Def home(request):
  + Return(“html file”)
  + from django.http import HttpResponse

**Class Notes: Triple Quotes in Python**

**What are Triple Quotes?**

Triple quotes in Python are denoted by three consecutive single quotes (''') or double quotes ("""). They are primarily used for **multi-line strings** and **docstrings**.

**Uses of Triple Quotes**

1. **Creating Multi-line Strings**
   * Triple quotes allow you to define strings that span multiple lines without needing to escape newline characters (\n).
   * Example:
   * multi\_line\_string = """This is a string
   * that spans multiple lines.
   * It's easy to include single or double quotes inside!"""
2. **Defining Docstrings**
   * Triple quotes are widely used for **docstrings**—a special kind of comment describing modules, classes, or functions.
   * Docstrings are **actual strings** (not comments) and can be accessed using the \_\_doc\_\_ attribute.
   * Example:
   * def my\_function():
   * """This is a docstring.
   * It explains what the function does."""
   * pass
   * print(my\_function.\_\_doc\_\_) # Outputs the docstring
3. **Embedding Large Text Blocks**
   * Triple quotes are useful for embedding large text blocks, such as HTML, JSON, or SQL, directly in your code.
   * Example:
   * html\_content = """<h1>Welcome</h1>
   * <p>This is a multi-line HTML content.</p>"""
4. **Used as Block Comments (Unofficial Use)**
   * Triple quotes are often used as block comments, but **this is not their intended purpose**.
   * Example:
   * '''
   * This is a block comment.
   * It's just an unused string and has no effect on the program.
   * '''
   * For proper comments, use #:
   * # This is a proper comment

**Common Misconception**

* Many people think triple quotes are solely for commenting. While they **can** act as comments if unused, their primary purpose is **creating multi-line strings** or **docstrings**.

**Why Use Triple Quotes in Django's HttpResponse?**

When generating HTML responses, triple quotes are helpful for embedding multi-line HTML content:

* They allow you to include HTML without escaping internal quotes (") or handling line breaks.
* Example:
* def home(request):
* return HttpResponse("""<h1>Hello, I am a Django server!</h1>
* <p>This is an HTML response.</p>
* <hr>
* <h3>Hope you are doing well!</h3>""")

**Summary**

* **Triple quotes are for multi-line strings and docstrings.**
* **They are not true comments.** Use # for comments instead.
* They simplify embedding large text blocks, making them highly readable and convenient.

Let me know if you need further additions or edits! 😊

* Using function for each page is not feasible. We need to return html page from backend using Django.
* Hence we create a folder called templates for each app(eg. home, accounts, login etc)
  + Now we don’t use Httpresponse, but we will return render
  + Def home(request)
    - Return render(request, “index.html”)
  + def home(request):
  + return render(request , "home/index.html")
    - #You can add html files in other folders, but it needs to be in templates folder. Here it is in template>>home>>index.html

**DJANGO COMPLETE TEMPLATE ENGINE**

* The purpose of template engine is to produce dynamic data in the page
* The data from Django server reach html page through context
  + def home(request):
  + people=[{'name':'Abhijeet','age':26},
  + {'name':'Tijo','age':29},
  + {'name':'Vicky','age':24},
  + {'name':'Jithin','age':20},
  + {'name':'Sandeep','age':17},
  + {'name':'Abhishek','age':13},
  + ]
  + return render(request , "home/index.html", context={'people':people})
  + In html add {{people}} ##directly adds dictionary
  + ##Now this data will be returned on the page
  + In the table you can use pythons for loop using
    - {% expression%}
    - {%endfor%}

EG.

* <table class="container">
* <tr>
* <th>S.No.</th>
* <th>Name</th>
* <th>Age</th>
* <th>Can Vote</th>
* </tr>
* {%for person in people%}
* <tr>
* <td>{{forloop.counter}}</td>
* <td>{{person.name}}</td>
* <td>{{person.age}}</td>
* <td> {% if person.age >= 18 %}👍
* {% else %}👎
* {% endif %}
* </td>
* </tr>
* {% endfor %}
* </table>
* Windows+period for emoji’s
* Ctrl + / to comment out in VS code(after selecting the lines to comment out) for html, python, css
* Built in tag templates and filters for Django
* <a href="/">Home</a>
* <a href="/about/">About </a></h2>
* Accordingly define urls.py and views.py
* DRY-
  + Base.html
  + <body>
  + {% block start %}
  + {% endblock %}
  + </body>
  + </html>
* Things to add in other html files
  + {% extends "home\base.html" %}
  + {% block start %}
  + Content
  + Content
  + {% endblock %}

When using template inheritance in Django, if you want to dynamically change the title of the HTML page, you can use a dedicated block for the title in the base template. Here's how you can do it:

**1. Update the Base Template (home/base.html)**

Add a {% block title %} in the <title> tag of your base template:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>{% block title %}Default Title{% endblock %}</title>

<link rel="stylesheet" href="path/to/your/css">

</head>

<body>

{% block start %}

{% endblock %}

</body>

</html>

**2. Update the Child Template**

In your child template, override the title block and specify your custom title:

{% extends "home/base.html" %}

{% block title %}

Project 1 About

{% endblock %}

{% block start %}

<nav class="navbar navbar-expand-lg navbar-light bg-light">

<h2>

<a href="/">Home</a>

<a href="/contact/">Contact </a>

</h2>

</nav>

<h1>This is About page of Project1</h1>

{% endblock %}

**Explanation**

1. **Base Template**:
   * The {% block title %} in the <title> tag allows child templates to replace its content dynamically.
2. **Child Template**:
   * You override the title block in the child template to set a specific title for that page.
   * The start block is used for other content on the page.

This approach ensures that your title is dynamic while keeping your base template clean and reusable.

* Content between block start and blockend willnot be common and other content will be common

**MODELS AND MIGRATIONS**

* In each app there will be models.py file
* Schema – structure of database
* Search for Django models and migrations in google
* Django add id=models.Autofield() automatically to the classes created in models, it will be the primary key.
* As you run makemigration, 0001\_initial.py file is created
  + In that there is dependency which depends on app
  + As you make more migrations the new one will depend on old one. If you delete old one the new one will not work, the database will collapse.
  + Eg 0002 will have dependency as 0001.
* Error Lens extension in VS code
* Django compares the last file with second last migration applied file and then update details. Django generates states of models once you run migrate. Then compare the states in database to check whether to make any changes.
* If you delete migration either in Django or in database from the end it will not cause error. But if you delete any migration file which lies in the middle, database will collapse

**DJANGO SHELL**

* Python manage.py shell
* Exit()
* From home.models import \*
* Student1=Student(name="Abhijeet", age=26, email="abhi23@gmail.com, address="Luckknow")
* Student1.save()## no need to give name as student1, just student is fine
* Call student1 to display it
* Student=Student.objects.create()# if you use this you don’t have to use student.save
* Objects is a model manager
* Student(class\_name).objects.all()## gets all the objects
* Student.objects.all()[0].name
* You can’t create a file with function and run it terminal while you are working in Django. It will cause ImportError. It is because the function needs to use some resources from Django
* But you can import this function to Django shell and run it
* Suppose the function is in util.py then  
  from home.util import \*  
  function()
* To check id of a data  
  Student.objects.all()[1].id

**Advanced CRUD Operations in Django**

* Create, Read, Update, Delete
* If you find error in migrating( for example you made spelling mistake error, corrected it but forgot to migrate) then you can delete the previous migrations and corresponding database tables and then create models again.
* <https://www.scaler.com/topics/django/resetting-db-in-django/>
* Database locked error:-  
  <https://stackoverflow.com/questions/3172929/operationalerror-database-is-locked>
* Close DB browser to get rid of database locked error
* Operational error- No such tables  
  python manage.py migrate --run-syncdb   
  Use it to create tables for unmigrated apps
* It looks like there was an issue with my migration.
  + I ran ./manage.py schemamigration research --auto and found that many of the fields didn't have a default specified.
  + So, I ran ./manage.py schemamigration research --init followed by ./manage.py migrate research
  + Rerunning the server from there did the trick!
* python manage.py makemigrations appName
* django.db.utils.OperationalError: no such table
  + Most likely, the problem is that you didn’t do a makemigrations / migrate when deleting the model.If you look at your database, you’ll see that there’s a “django\_contenttype” table which tracks models and tables.Django still thinks that the table exists.
  + In your settings.py file change the name of your database. For example, You have to change name mydatabase below.
  + DATABASES = {
    - 'default': {
  + 'ENGINE': 'django.db.backends.sqlite3',
  + 'NAME': 'mydatabase',
  + }
  + }
  + I found another solution:  
    Delete *pycache* and db.sqlite3
* Car.create.objects.(\*\*car\_dict)# define dictionary with values and then pass it

Read

* Cars.objects.all()
* Cars.objects.all()[1].speed
* While defining class in model add  
  def \_\_str\_\_(self)->str:

Return self.name, self.car\_name

* For car in cars:  
  print(f””The car name is {car.car\_name} and speed is {car.speed}”)
* To copy and paste something in terminal use ctrl+shif+c and ctrl+shift+v
* car=Cars.objects.get(id=1)#if you pass number greater than the number of objects you will get error. Catch it as exception

Update

* After getting the object update value
* car=Cars.objects.get(id=1)  
  car.car\_name=”creta”  
  car.speed=200  
  car.save()
* Car.objects.filter(id=1).update(car\_name=”Creata limited Edition”K)

Delete

Car.objects.get(id=1).delete()

Now the previous second one will not occupy first position. The data corresponding to the id is only getting delted.

**PROJECT RECEIPE**

* ImageField(upload\_to=receipe)# not applied, receipe is not defined
* Go to bootstrap website search for form there and copy the form from there
* Add method=post in form in order to submit data from front end to backend, also add enctype=multipart/formdata for submitting images
* To bring the data to view  
  data=request.POST
* We need to give {% csrf\_token % } below form to
* Run python shell in cmd.
* Name should be added in input/textarea tag, otherwise data will not be sent

VIEWS

from django.shortcuts import render,redirect

from .models import \*

# Create your views here.

def receipes(request):

    if request.method=="POST":

        data=request.POST

        receipe\_name=data.get('receipe\_name')

        receipe\_description=data.get('receipe\_description')

        receipe\_image=request.FILES.get('receipe\_image')

        print(receipe\_name)

        print(receipe\_description)

        print(receipe\_image)

        Receipe.objects.create(receipe\_name=receipe\_name,

            receipe\_description=receipe\_description,

            receipe\_image=receipe\_image)

    return redirect('/receipes')#inside function

    return render(request, 'receipes.html')

* Return redirect is added so that each time you submit data it will not give rise to dialogue box

**ADMIN.PY FILE**

* App level in Vege app for this project
* from django.contrib import admin
* from .models import \*
* # Register your models here.
* admin.site.register(Receipe)

**RECEIPE PART -2**

from django.shortcuts import render,redirect

from .models import \*

# Create your views here.

def receipes(request):

    if request.method=="POST":

        data=request.POST

        receipe\_name=data.get('receipe\_name')

        receipe\_description=data.get('receipe\_description')

        receipe\_image=request.FILES.get('receipe\_image')

        print(receipe\_name)

        print(receipe\_description)

        print(receipe\_image)

        Receipe.objects.create(receipe\_name=receipe\_name,

            receipe\_description=receipe\_description,

            receipe\_image=receipe\_image)

        return redirect('/receipes')

    queryset=Receipe.objects.all()

    context={'receipes':queryset}

    return render(request, 'receipes.html',context)

* To show receipes, we can update html file as follows

<table class="table">

        <thead>

          <tr>

            <th scope="col">#</th>

            <th scope="col">Receipe Name</th>

            <th scope="col">Receipe Description</th>

            <th scope="col">Image</th>

          </tr>

        </thead>

        <tbody>

            {% for receipe in receipes %}

          <tr>

            <th scope="row">{{forloop.counter}}</th>

            <td>{{receipe.receipe\_name}}</td>

            <td>{{receipe.receipe\_description}}</td>

            <td>{{receipe.receipe\_image}}</td>

          </tr>

          {% endfor %}

        </tbody>

      </table>

* Search for Django media files. Django static files. Go settings.py and update static files.

Settings.py static

import os

# Static files (CSS, JavaScript, Images)

# https://docs.djangoproject.com/en/5.1/howto/static-files/

STATIC\_URL = '/static/'

STATIC\_ROOT= os.path.join(BASE\_DIR,'staticfiles')

STATICFILES\_DIR={os.path.join(BASE\_DIR,"public/static")}

MEDIA\_ROOT=os.path.join(BASE\_DIR,'media')

MEDIA\_URL='/media/'

# Default primary key field type

# https://docs.djangoproject.com/en/5.1/ref/settings/#default-auto-field

DEFAULT\_AUTO\_FIELD = 'django.db.models.BigAutoField'

Urls.py code

from django.contrib import admin

from django.urls import path

from home.views import \*

from vege.views import \*

from django.conf.urls.static import static

from django.conf import settings

from django.contrib.staticfiles.urls import staticfiles\_urlpatterns

urlpatterns = [

    path('admin/', admin.site.urls),

    path('', home, name="home"),

    path('contact/', contact, name="contact"),

    path('about/', about, name="about"),

    path('receipes/', receipes, name="receipes"),

] +static(settings.MEDIA\_URL, document\_root=settings.MEDIA\_ROOT)#blank suggests calling default port, that is 8000

# if settings.DEBUG:

#     urlpatterns += static(settings.MEDIA\_URL, document\_root=settings.MEDIA\_ROOT)

# urlpatterns += staticfiles\_urlpatterns

if settings.DEBUG:

    urlpatterns += static(settings.MEDIA\_URL, document\_root=settings.MEDIA\_ROOT)

HTML

<table class="table">

        <thead>

          <tr>

            <th scope="col">#</th>

            <th scope="col">Receipe Name</th>

            <th scope="col">Receipe Description</th>

            <th scope="col">Image</th>

          </tr>

        </thead>

        <tbody>

            {% for receipe in receipes %}

          <tr>

            <th scope="row">{{forloop.counter}}</th>

            <td>{{receipe.receipe\_name}}</td>

            <td>{{receipe.receipe\_description}}</td>

            <td>

                <img src="/media/{{receipe.receipe\_image}}" style="height: 200px;">

            </td>

          </tr>

          {% endfor %}

        </tbody>

      </table>

**Making links dynamic**

def delete\_receipe(request, id):

    queryset= Receipe.objects.get(id = id)

    queryset.delete()

    return redirect('/receipes')

path('delete\_receipe/<id>', delete\_receipe, name="delete\_receipe"),

Html

<td>

                <a href="/delete\_receipe/{{receipe.id}}" class="btn btn-danger">Delete>

</td>

UPDATE

def update\_receipe(request, id):

    queryset= Receipe.objects.get(id = id)

    if request.method=="POST":

        data=request.POST

        receipe\_name=data.get('receipe\_name')

        receipe\_description=data.get('receipe\_description')

        receipe\_image=request.FILES.get('receipe\_image')

        queryset.receipe\_name=receipe\_name

        queryset.receipe\_description=receipe\_description

        queryset.receipe\_image=receipe\_image

        queryset.save()

        return redirect('/receipes')

    context={'receipe':queryset}

    return render(request, 'update\_receipes.html',context)

Html

{% extends "home/base.html" %}

{% block title %}

Project 1 Receipes

{% endblock %}

{% block start %}

<ul class="nav nav-tabs">

    <li class="nav-item">

        <a class="nav-link" href="/">Home</a>

    </li>

    <li class="nav-item">

        <a class="nav-link" href="/about/">About</a>

    </li>

    <li class="nav-item">

        <a class="nav-link active" href="/receipes/">Receipes</a>

    </li>

    <li class="nav-item">

        <a class="nav-link" href="/contact/">Contact</a>

    </li>

</ul>

<h1>This is Receipe Page</h1>

<div class="container mt-5">

    <form class="col-6 mx-auto card p-3" method="post" enctype="multipart/form-data">

        {% csrf\_token %}

        <h3>Update Receipes</h3>

        <hr>

        <div class="mb-3">

            <label for="receipeName" class="form-label">Receipe Name</label>

            <input name="receipe\_name" value="{{receipe.receipe\_name}}" required class="form-control">

        </div>

        <div class="mb-3">

            <label for="receipe\_description" class="form-label">Receipe Description</label>

            <textarea class="form-control" value="" required name="receipe\_description">{{receipe.receipe\_description}} </textarea>

        </div>

        <div class="mb-3">

            <label for="receipeImage" class="form-label">Receipe Image</label>

            <input name="receipe\_image" type="file" value="{{receipe\_image}}" class="form-control">

        </div>

        <button type="submit" class="btn btn-success" id="myButton">Update</button>

    </form>

</div>

<!--

<script>

    document.getElementById('myButton').addEventListener('click', function(event) {

        event.preventDefault(); // Prevent the form from submitting

        alert("Recipe has been added!"); // Display the alert

        // If you want to submit the form after the alert, you can manually submit it here:

        // document.querySelector('form').submit();

    });

</script>

-->

{% endblock %}

**SEARCH FUNCTIONALITY**

**Views**

queryset=Receipe.objects.all()

    if request.GET.get('search'):

        queryset=queryset.filter(receipe\_name\_\_icontains = request.GET.get('search'))

html

<hr>

    <div class="mt-5">

        <div class="mx-auto col-6 ">

            <form >

            <div class="mb-3">

                <label for="search\_receipe" class="form-label">Search Receipe</label>

                <input name="search" type="text" required class="form-control">

            </div>

            <button type="submit" class="btn btn-primary">Search </button>

            </form>

        </div>

    </div>

**Advanced Authentication System**

* ALLOWED\_HOSTS = []

Is empty initially

* Choose Debug =True,
* Let’s add authentication for receipes page(so edit models of that app)

from django.contrib.auth.models import User

* This imports the User model from Django's built-in authentication framework, allowing you to manage user accounts, authentication, and permissions in your application. Use it to create, retrieve, update, or delete user instances.

user=models.ForeignKey(User,on\_delete=models.CASCADE)

* This creates a foreign key relationship to the User model. It links the current model to a specific user, and when the user is deleted, related records will also be deleted (on\_delete=models.CASCADE).

user=models.ForeignKey(User,on\_delete=models.SET\_NULL)

* This creates a foreign key relationship to the User model. If the related user is deleted, the field is set to NULL (on\_delete=models.SET\_NULL). Ensure the field allows null=True for this to work.

user=models.ForeignKey(User,on\_delete=models.SET\_DEFAULT

VIEWS

from django.contrib.auth.models import User

from django.contrib import messages

def register\_page(request):

    if request.method == "POST":

        first\_name = request.POST.get('first\_name')

        last\_name = request.POST.get('last\_name')

        email = request.POST.get('email')

        username = request.POST.get('username')

        password = request.POST.get('password')

        # Validate username and other required fields

        user=User.objects.filter(username=username)

        if user.exists():

            messages.info(request,'Username already taken')

            return redirect('/register/')

        user=User.objects.filter(email=email)

        if user.exists():

            messages.info(request,'This email is already registered')

            return redirect('/register/')

        # Create the user

        user = User.objects.create\_user(

            username=username,

            first\_name=first\_name,

            last\_name=last\_name,

            email=email,

            password=password  # Automatically hashes the password

        )

        # Redirect to login or home page

        messages.info(request,"Account created Successfully")

        return redirect('/register/')  # Redirect to the login page after registration

    return render(request, 'register.html')

register.html

<h1>This is Sign Up Page</h1>

<div class="container mt-5">

    <form class="col-6 mx-auto card p-3" method="post" enctype="multipart/form-data">

        {% csrf\_token %}

        <h3>Register</h3>

        <hr>

        {% if messages %}

        <div class="alert alert-primary" role="alert">

          {% for message in messages %}

          {{ message }}

          {% endfor %}

        </div>

        {% endif %}

        <div class="mb-3">

            <label for="exampleInputEmail1" class="form-label">First Name</label>

            <input type="text" class="form-control" name="first\_name" id="exampleInputEmail1" aria-describedby="emailHelp">

          </div>

          <div class="mb-3">

            <label for="exampleInputEmail1" class="form-label">Last Name</label>

            <input type="text" class="form-control" name="last\_name" id="exampleInputEmail1" aria-describedby="emailHelp">

          </div>

          <div class="mb-3">

            <label for="exampleInputEmail1" class="form-label">Email</label>

            <input type="email" class="form-control" name="email"  id="exampleInputEmail1" aria-describedby="emailHelp">

          </div>

            <div class="mb-3">

              <label for="exampleInputEmail1" class="form-label">Username</label>

              <input type="text" class="form-control"  name="username"   id="exampleInputEmail1" aria-describedby="emailHelp">

            </div>

            <div class="mb-3">

              <label for="exampleInputPassword1" class="form-label">Password</label>

              <input type="password" class="form-control" name="password" id="exampleInputPassword1">

            </div>

            <p>Already have account?  <a href="/login/"> Login Here</a> </p>

            <button type="submit" class="btn btn-primary">Submit</button>

    </form>

</div>

{% endblock %}

Login, logout/register

1.html

<li class="nav-item">

        {% if request.user.is\_authenticated %}

            <a class="nav-link" href="/logout/">Logout</a>

        {% else %}

            <a class="nav-link" href="/login/">Login</a>

            <a class="nav-link" href="/register/">Register</a>

        {% endif %}

    </li>

</ul>

**Views**