**Hosting on PythonAnywhere**

To host your Django project Prj\_CRUD on PythonAnywhere by cloning it from your GitHub repository, follow these step-by-step instructions:

**Step 1: Log in to PythonAnywhere**

1. **Log in** to your PythonAnywhere account.
2. Go to the **Dashboard**.

**Step 2: Open a Bash Console**

1. Click on the **"Consoles"** tab.
2. Start a new **"Bash"** console.

**Step 3: Clone Your GitHub Repository**

In the Bash console, clone your GitHub repository:

bash

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git clone https://github.com/Sunil-Chakraborty/CRUD.git

This will create a directory named CRUD with your project files.

**Step 4: Create and Activate a Virtual Environment**

1. Navigate to your project directory:

bash

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cd CRUD

1. Create a virtual environment:

bash

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python3.8 -m venv myenv

1. Activate the virtual environment:

bash

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source myenv/bin/activate

**Step 5: Install Project Dependencies**

Install the dependencies listed in your requirements.txt file:

bash

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pip install -r requirements.txt

**Step 6: Configure Your Django Project**

1. **Edit settings.py**:
   * Open your settings.py file and ensure DEBUG is set to False and ALLOWED\_HOSTS includes your PythonAnywhere domain, e.g., sunilc.pythonanywhere.com.

python

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DEBUG = False

ALLOWED\_HOSTS = ['sunilc.pythonanywhere.com']

1. **Database Configuration**:
   * Ensure that your database configuration is set to use SQLite for simplicity. PythonAnywhere free accounts do not support other databases.

**Step 7: Set Up the Database**

Run the following commands to apply migrations and set up the database:

bash

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python manage.py migrate

**Step 8: Collect Static Files**

Collect all static files to a single location:

bash

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python manage.py collectstatic

**Step 9: Configure the Web App on PythonAnywhere**

1. Go to the **"Web"** tab on the PythonAnywhere dashboard.
2. Click **"Add a new web app"**.
3. Choose **"Manual configuration"** and then select **"Django"**.
4. Select **Python 3.8** as the version.
5. In the **"Virtualenv"** section, specify the path to your virtual environment, e.g., /home/sunilc/CRUD/myenv.

**Step 10: Configure WSGI File**

1. Open the WSGI configuration file /var/www/yourusername\_pythonanywhere\_com\_wsgi.py.
2. Update the WSGI file to point to your Django project's wsgi.py file:

python

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import os

import sys

path = '/home/sunilc/CRUD'

if path not in sys.path:

sys.path.append(path)

os.environ['DJANGO\_SETTINGS\_MODULE'] = 'crudexample.settings'

from django.core.wsgi import get\_wsgi\_application

application = get\_wsgi\_application()

**Step 11: Reload the Web App**

1. Go back to the **"Web"** tab on the PythonAnywhere dashboard.
2. Click **"Reload"** to restart your web app.

**Step 12: Access Your Django App**

Visit your PythonAnywhere domain, e.g., https://sunilc.pythonanywhere.com, to see your hosted Django app.

**Troubleshooting**

* Ensure all environment variables (like secret keys) are correctly set.
* Check for any error logs in the **"Web"** tab under **"Error logs"**.
* Verify that your settings.py file correctly configures static and media files.

By following these steps, you should have your Django project successfully hosted on PythonAnywhere.