

Let's go step by step for deploying your Django project `crud_practice` from GitHub to **Render**. I'll assume you already have a GitHub repository ready.

Step 1: Prepare your Django project for deployment

Before deployment, make sure your project is ready:

1. Install gunicorn – the production server for Django:

```
pip install gunicorn
```

Then add it to your `requirements.txt`:

```
pip freeze > requirements.txt
```

2. Configure `ALLOWED_HOSTS` in `settings.py`:

```
ALLOWED_HOSTS = ['your-render-service-url.onrender.com']
```

3. Set up `staticfiles`:

- Add these lines to `settings.py`:

```
STATIC_ROOT = BASE_DIR / "staticfiles"  
STATIC_URL = '/static/'
```

- Collect static files:

```
python manage.py collectstatic
```

4. Create `Procfile` in your project root (same level as `manage.py`):

```
web: gunicorn crud_practice.wsgi
```

Replace `crud_practice` with your Django project folder name (the one containing `wsgi.py`).

Step 2: Push your latest code to GitHub

Make sure all changes are committed and pushed:

```
git add .
git commit -m "Prepare for Render deployment"
git push origin main
```

Step 3: Create a Render account & new Web Service

1. Go to [Render](#) and sign up or log in.
2. Click **New** → **Web Service**.
3. Connect your **GitHub account** and select the `crud_practice` repository.
4. Configure the service:
 - **Environment:** Python 3
 - **Build Command:** `pip install -r requirements.txt`
 - **Start Command:** `gunicorn crud_practice.wsgi`

Step 6: Deploy & Run Migrations

Once the Render Web Service is created:

1. Run migrations:

Go to **Shell** on Render dashboard for your service and run:

```
python manage.py migrate
```

2. Create superuser (optional):

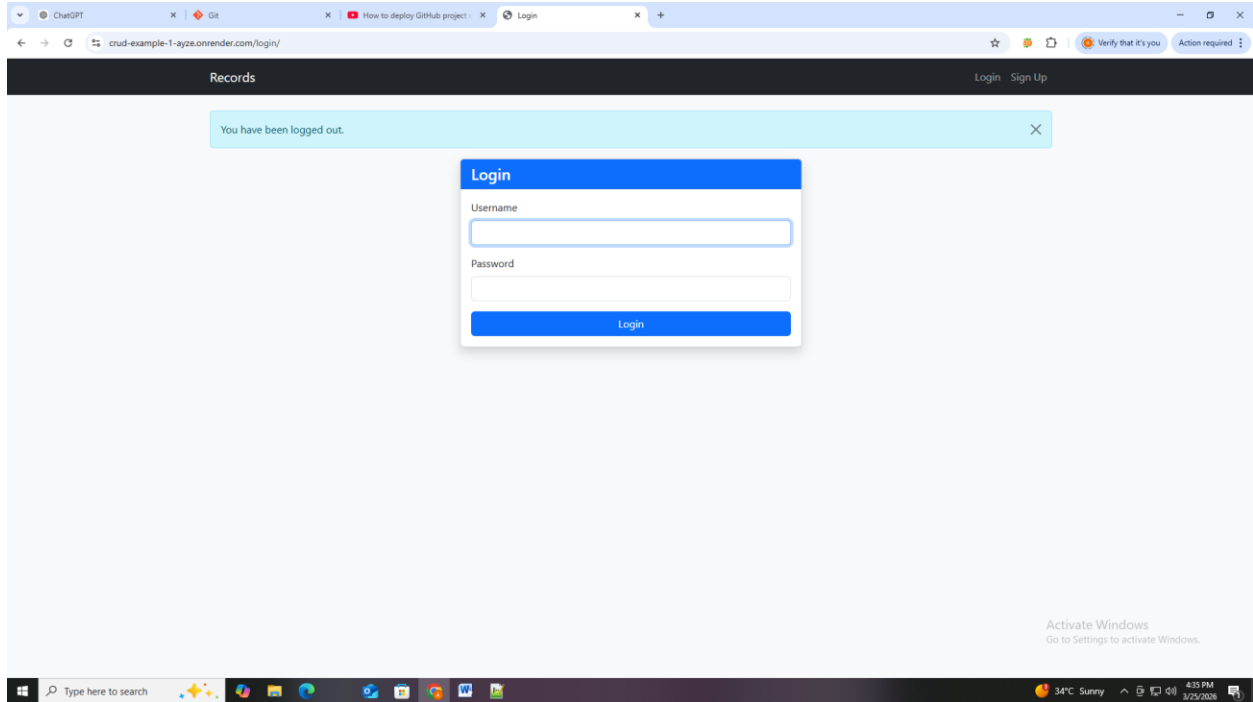
```
python manage.py createsuperuser
```

Step 7: Check your site

Render gives you a URL like:

```
https://crud-practice.onrender.com
```

Visit it in a browser and your Django app should be live.



Note:- wsgi.py file code

```
import os
```

```
from django.core.wsgi import get_wsgi_application
```

```
os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'crud_example.settings')
```

```
# Run migrations automatically (dangerous on each start!)
```

```
call_command('migrate', interactive=False)
```

```
application = get_wsgi_application()
```