**DEPLOYING DJANGO APP ON HEROKU**

First of all, Heroku is a cloud application platform, it is basically a Platform-as-a-Service (PaaS). They support several programming languages, including Python. It is very easy to deploy Django applications on Heroku. They also offer a free plan, which is quite limited, but it is great to get started and to host demos of Django applications.

**Prerequisites to deploy Django project to Heroku.**

1. Download and install the Heroku CLI from official website.
2. Create a free Heroku website and link it with the CLI using Heroku login command.
3. Import gunicorn and whitenoise in the environment
4. Create Procfile(‘case sensitive’, ’without any extension’) in the django project root directory with ‘web: gunicorn app-name.wsgi --log-file -’ statement.
5. Add requirements.txt file in the same root directory

(if you have no idea about packages installed just use pip freeze > requirements.txt command from root directory to generate it automatically)

1. Create runtime.txt file with your working python version (example: python-3.9.5)

**Steps to deploy the project(CLI):**

1. Use command “heroku create app-name" to create a new app in heroku website
2. Using the above command automatically creates the remote connection with the app. If app created manually in website use “heroku git remote: -a app-name ” (use “remote -v to see existing connections”)
3. Intiate git using “ git init” in the root directory
4. Add .gitignore file to ignore unnecessary filetypes
5. Add all the files using “heroku git commit -A” command
6. Push all the files to server using “git push heroku master” command
7. Add the domain name given by heroku in the settings.py allowedhosts section along with the local host (example : AllowedHost = [‘127.0.0.1’, ‘app-name.heroku.com’] )
8. Use “heroku run python manage.py migrate” command to migrate all the database within your project with the Heroku
9. Try using “heroku open” to open your hosted website in the browser
10. Try using “heroku logs” to get to know about the errors if any caused

If any changes made :

git add .  
 git commit -am "comment"  
 git push heroku master

\*Thus your Django app will be deployed with the above process access the website with the given