

# Web Application Deployment Using Render

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## RENDER:

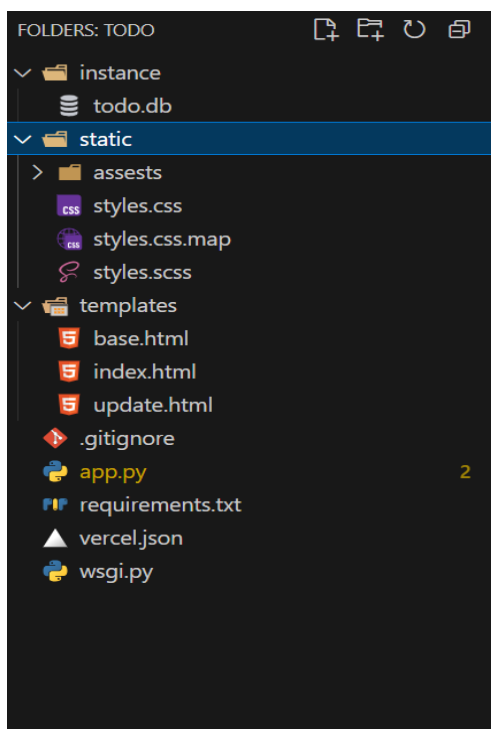
Render is a cloud hosting platform that lets developers easily deploy full-stack applications, including Python, Flask, FastAPI, Node.js, and static websites. It provides a free tier that is perfect for students, beginners, and portfolio projects.

Apps can be deployed directly from GitHub, and Render automatically builds, runs, and hosts them on a public URL. Unlike Streamlit Cloud (which is only for Streamlit apps), Render supports backend apps and databases, making it suitable for more complex projects and APIs.

The free tier offers limited resources, but it's ideal for small apps, learning, experimentation, and showcasing web development skills without managing servers manually.

I used RENDER to deploy my simple to-do-list flask application, which I directly imported from my Github repository.

## PROJECT STRUCTURE:



## DEPLOYMENT STEPS:

My Workspace

New Web Service

Search

+ New Upgrade

## New Web Service

It looks like you're using **Flask**, so we've autofilled some fields accordingly.

Source Code

SathishWeera01 / To-Do-List • 1m ago

Edit

Name

A unique name for your web service.

To-Do-List-1

Project

Optional

Add this web service to a project once it's created.

My project / Production

Language

Choose the runtime environment for this service.

Python 3

Branch

The Git branch to build and deploy.

main

Region

Your services in the same region can communicate over a private network. You currently have services running in **Oregon**.

Oregon (US West) 1 existing service

Deploy in a new region

Root Directory

Optional

Next, develop your code from this directory instead of the repository root.

g g .git

**To-Do-List-1** Python 3 Free Upgrade your instance →

Service ID: uv-d45d5ndeez73588e00 ⓘ

SathyaVeerai / To-Do List ↗ main  
https://to-do-list-1.upk1.renders.com ⓘ

Your free instance will spin down with inactivity, which can delay requests by 50 seconds or more.

November 5, 2025 at 12:48 PM Live

es83269 Fix remove before \_first\_request and update DB int

All logs Search Live tail GMT+5:30

```
Nov 5 12:49:27 PM [notice] A new release of pip is available: 25.1.1 -> 25.3
Nov 5 12:49:27 PM [notice] To update, run: pip install --upgrade pip
Nov 5 12:49:28 PM >>> Uploading build...
Nov 5 12:49:42 PM >>> Uploaded in 19.5s. Compression took 3.2s
Nov 5 12:49:42 PM >>> Build successful @
Nov 5 12:49:46 PM >>> Deploying...
Nov 5 12:50:22 PM >>> Running 'gunicorn app.py'
Nov 5 12:50:32 PM [2025-11-05 07:20:32 +0000] [57] [INFO] Starting gunicorn 23.0.0
Nov 5 12:50:32 PM [2025-11-05 07:20:32 +0000] [57] [INFO] Listening at: http://0.0.0.0:3000 (57)
Nov 5 12:50:32 PM [2025-11-05 07:20:32 +0000] [57] [INFO] Using worker: sync
Nov 5 12:50:32 PM [2025-11-05 07:20:32 +0000] [58] [INFO] Booting worker with pid: 58
Nov 5 12:50:32 PM [2025-11-05 07:20:32 +0000] *GET / HTTP/1.1 "200 0 "-" "Go-http-client/1.1"
Nov 5 12:50:37 PM >>> Your service is live @
Nov 5 12:50:37 PM >>>
Nov 5 12:50:37 PM >>> =====
Nov 5 12:50:37 PM >>>
Nov 5 12:50:37 PM >>> Available at your primary URL https://to-do-list-1.upk1.renders.com
Nov 5 12:50:37 PM >>>
Nov 5 12:50:37 PM >>> =====
Nov 5 12:50:38 PM [2025-11-05 07:20:38 +0000] *GET / HTTP/1.1 "200 1215 "-" "Go-http-client/2.0"
Nov 5 12:50:37 PM [2025-11-05 07:20:37 +0000] *GET / HTTP/1.1 "200 1215 "-" Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.50"
Nov 5 12:50:46 PM [2025-11-05 07:20:46 +0000] *GET /static/images.png HTTP/1.1 "200 0 "https://to-do-list-1.upk1.renders.com/" Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0"
```

**HOSTED WEB APP LINK:** <https://to-do-list-1-vpkf.onrender.com>