

Web Application Deployment Using Render

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RENDER:

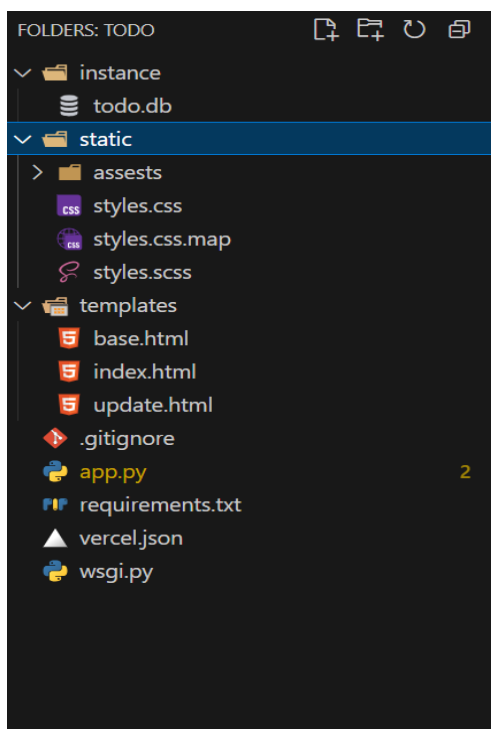
Render is a cloud hosting platform that lets developers easily deploy full-stack applications, including Python, Flask, FastAPI, Node.js, and static websites. It provides a free tier that is perfect for students, beginners, and portfolio projects.

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

SathishWeeraDI / To-Do-List · 1m ago

Edit

Name

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

If set, Render runs commands from this directory instead of the repository root.

src, src

My project

Production

To-Do-List-1

Search

+ New

Upgrade

WEB SERVICE

To-Do-List-1

Python 3

Free

Upgrade your instance

Connect

Manual Deploy

Service ID: srv-d45f6de0ee7388be00

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https://to-do-list-1-yk4-render.com

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

Upgrade now

November 5, 2025 at 12:48 PM

Live

ps883265 Fix remove before_first_request and update DB init.

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 ==> Uninstalling build...

Nov 5 12:49:42 PM ==> Uninstalling is 18.5s. 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:app'

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://0.0.0.0:10000 (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 127.0.0.1 - - [05/Nov/2025:07:20:32 +0000] "HEAD / 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 ==> Available at your primary URL https://to-do-list-1-yk4-render.com

Nov 5 12:50:37 PM ==>

Nov 5 12:50:37 PM ==> =====

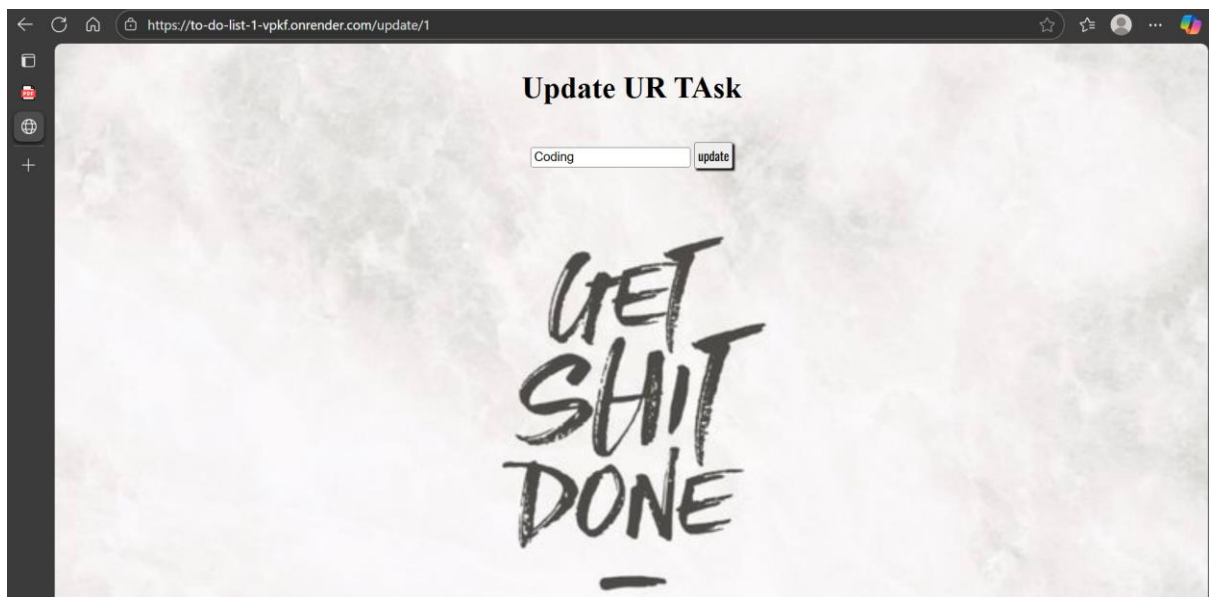
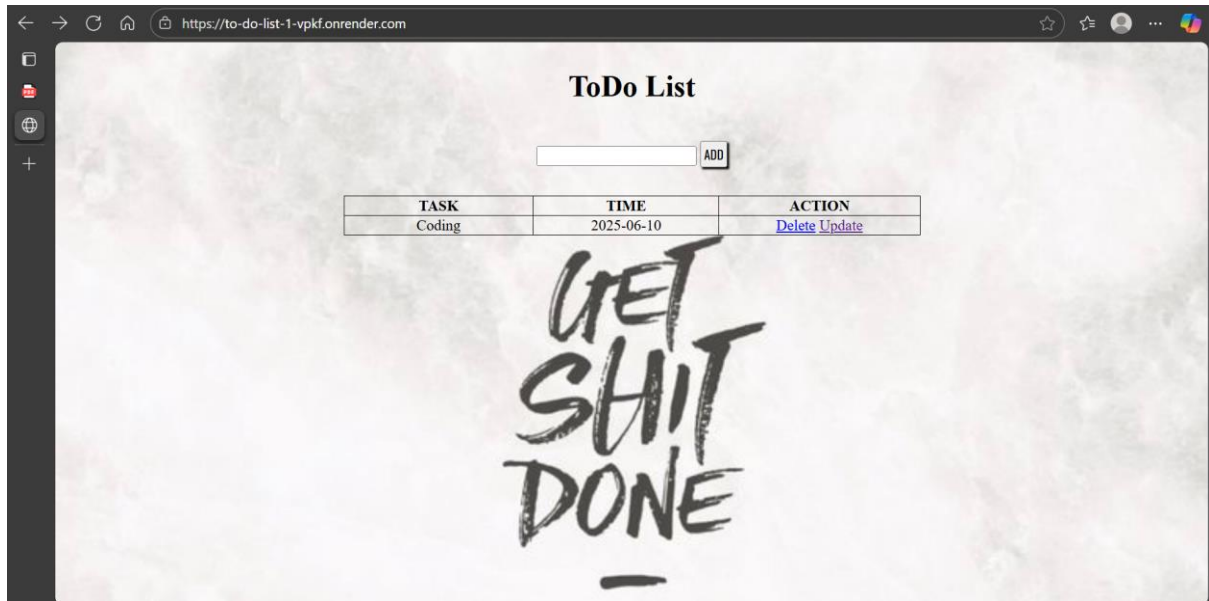
Nov 5 12:50:38 PM 127.0.0.1 - - [05/Nov/2025:07:20:38 +0000] "GET / HTTP/1.1" 200 1215 "-" "Go-http-client/2.0"

Nov 5 12:50:57 PM 127.0.0.1 - - [05/Nov/2025:07:20:57 +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/537.36"

Nov 5 12:50:58 PM 127.0.0.1 - - [05/Nov/2025:07:20:58 +0000] "GET /static/images/icon HTTP/1.1" 200 0 "https://to-do-list-1-yk4-render.com/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0"

Need better ways to work with logs? Try the Render CLI, Render MCP Server, or set up a log stream integration

FINAL DEPLOYMENT:



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