

# Web Application Deployment Using Render

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## RENDER:

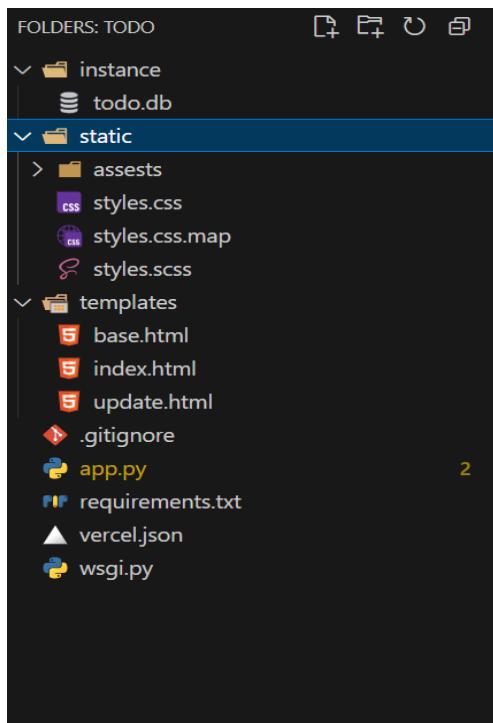
Render is a cloud hosting platform that lets developers easily deploy full-stack applications, including Python, Flask, FastAPI, Node.js, and static websites. It provides a free tier that is perfect for students, beginners, and portfolio projects.

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:

The screenshot shows the Render interface for creating a new web service. The service is named "To-Do-List-1". It is associated with a project named "My project" and a language of "Python 3". The branch is set to "main". The region is "Oregon (US West)". A note indicates that the service is currently running in the "Production" environment. The root directory is set to the repository root.

New Web Service

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

Source Code

Name: To-Do-List-1

Project: My project / Production

Language: Python 3

Branch: main

Region: Oregon (US West) (1 existing service)

Root Directory: Optional

The screenshot shows the logs for the "To-Do-List-1" service. It displays a log entry from November 5, 2025, at 12:48 PM, indicating the deployment process. The logs show the service starting up, listening on port 10000, and booting a worker. A message at the bottom of the logs says, "Your service is live". The URL "https://to-do-list-1-vpkf.onrender.com" is also mentioned.

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

November 5, 2025 at 12:48 PM

Your service is live

https://to-do-list-1-vpkf.onrender.com

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