

Web Application Deployment Using Render

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RENDER:

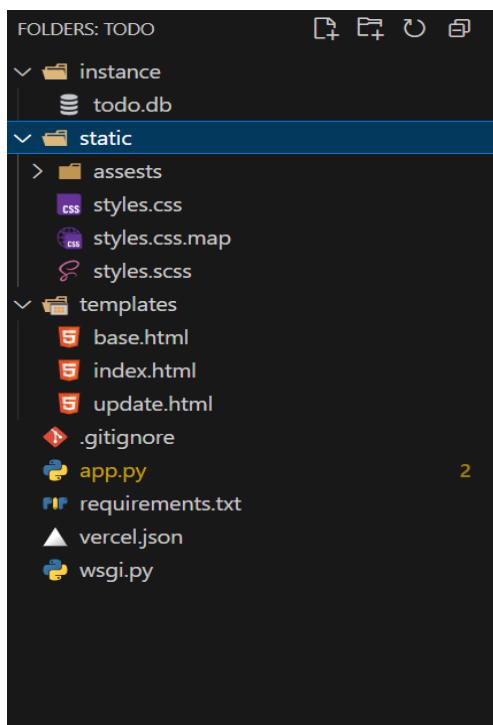
Render is a cloud hosting platform that lets developers easily deploy full-stack applications, including Python, Flask, FastAPI, Node.js, and static websites. It provides a free tier that is perfect for students, beginners, and portfolio projects.

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 UI interface for creating a new web service. The top navigation bar includes 'My Workspace', 'New Web Service', 'Search', 'New', 'Upgrade', and other account-related options. The main form is titled 'New Web Service' and displays the message: 'It looks like you're using Flask, so we've autofilled some fields accordingly.' The form fields are as follows:

- Name:** To-Do-List-1
- Project:** My project
- Language:** Python 3
- Branch:** main
- Region:** Oregon (US West)
- Root Directory:** /src

At the bottom right of the form, there is a 'Deploy' button.

The screenshot shows the Render UI interface for the deployed 'To-Do-List-1' service. The top navigation bar includes 'My project', 'Production', 'To-Do-List-1', 'Search', 'New', 'Upgrade', and other account-related options. The service details are displayed:

- WEB SERVICE:** To-Do-List-1 (Python 3, Free)
- Service ID:** sv-d45f65dees73888e00
- Owner:** SathishVeera01/To-Do-List
- URL:** https://to-do-list-1.vpkfr.render.com

A purple banner at the top states: 'Your free instance will spin down with inactivity, which can delay requests by 50 seconds or more.' Below this is a log viewer with the following content:

```
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 ⓘ 往上 Uploading build...
Nov 5 12:49:42 PM ⓘ 往上 Uploading in 10.5s. Compression took 3.2s
Nov 5 12:49:42 PM ⓘ 往下 Build successful
Nov 5 12:49:48 PM ⓘ 往上 Deploying...
Nov 5 12:50:22 PM ⓘ 往下 Running 'gunicorn app:app'
Nov 5 12:50:32 PM ⓘ [2025-11-05 07:28:32 +0000] [57] INFO Starting gunicorn 23.0.0
Nov 5 12:50:32 PM ⓘ [2025-11-05 07:28:32 +0000] [57] INFO Listening at: http://0.0.0.0:10000 (57)
Nov 5 12:50:32 PM ⓘ [2025-11-05 07:28:32 +0000] [57] INFO Using worker: sync
Nov 5 12:50:32 PM ⓘ [2025-11-05 07:28:32 +0000] [58] INFO Booting worker with id: 58
Nov 5 12:50:32 PM ⓘ 127.0.0.1 ... [05/Nov/2025 07:28:32 +0000] "HEAD / HTTP/1.1" 200 0 "-" "Go-http-client/1.1"
Nov 5 12:50:37 PM ⓘ 往下 Your service is live
Nov 5 12:50:37 PM ⓘ 往上 ///////////////////////////////////////////////////
Nov 5 12:50:37 PM ⓘ 往上 Available at your primary URL https://to-do-list-1.vpkfr.render.com
Nov 5 12:50:37 PM ⓘ 往上 ///////////////////////////////////////////////////
Nov 5 12:50:37 PM ⓘ 往上 ///////////////////////////////////////////////////
Nov 5 12:50:38 PM ⓘ 127.0.0.1 ... [05/Nov/2025 07:29:38 +0000] "GET / HTTP/1.1" 200 1219 "-" "Go-http-client/2.0"
Nov 5 12:50:57 PM ⓘ 127.0.0.1 ... [05/Nov/2025 07:29:57 +0000] "GET / HTTP/1.1" 200 1219 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36"
Nov 5 12:50:57 PM ⓘ 127.0.0.1 ... [05/Nov/2025 07:29:57 +0000] "GET / HTTP/1.1" 200 1219 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36"
```

At the bottom of the log viewer, a note says: 'Need better ways to work with logs? Try the Render CLI, Render MCP Server, or set up a log stream integration.'

FINAL DEPLOYMENT:

The image displays two screenshots of a web-based To-Do List application, likely built with Node.js and MongoDB, running on Render.

Top Screenshot: ToDo List

The URL is <https://to-do-list-1-vpkf.onrender.com>. The page title is "ToDo List". It features a search bar, an "ADD" button, and a table with one row:

TASK	TIME	ACTION
Coding	2025-06-10	Delete Update

In the center of the page is a large, hand-drawn style text "GET SHIT DONE" with a horizontal line underneath.

Bottom Screenshot: Update UR TAsk

The URL is <https://to-do-list-1-vpkf.onrender.com/update/1>. The page title is "Update UR TAsk". It has a form with a text input containing "Coding" and a "update" button. The same "GET SHIT DONE" text is displayed below the form.

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