

Group 7

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Deployment Method: PythonAnywhere (using web interface)

How to deploy a Flask App using PythonAnywhere

Step 1: Create a PythonAnywhere account

If you don't have an account on PythonAnywhere, sign up at PythonAnywhere. Then login.

Step 2: Create a new web app

From your PythonAnywhere Dashboard, go to 'Web' tab. Click on 'Add a new web app' and then click 'next' > choose 'Flask' for the Python Web framework > select Python version 'Python 3.10 (Flask 2.1.2)' > click 'next'.

Step 3: Using a virtualenv in your web app (to get newer versions of flask)

You can use a virtualenv in a new web app (created using the “Manual configuration” option) or in your existing web apps. To use a virtualenv in your web app, do the following:

1. Create a virtualenv
2. Install packages into your virtualenv
3. Configure your app to use this virtualenv

From the dashboard, go to the 'Consoles' tab, then click on 'Bash' to start your Bash console.

We recommend using virtualenvwrapper, a handy command-line tool, to create your virtualenv.

Specify which Python version to use for your virtualenv using the --python option, but note that it must match the version of Python you've chosen for your web app. So, to create a new Python 3.10 virtualenv, run this command:

```
'mkvirtualenv myvirtualenv --python=python3.10'
```

Once your virtualenv is ready and active, you'll see (myvirtualenv) \$ in your prompt.

Whenever you want to work on your project in the console, you need to make sure the virtualenv is active. You can reactivate it at a later date with typing 'workon my-virtualenv' in the bash console.

Step 4: Install packages/dependencies into your virtualenv

```
pip install flask
```

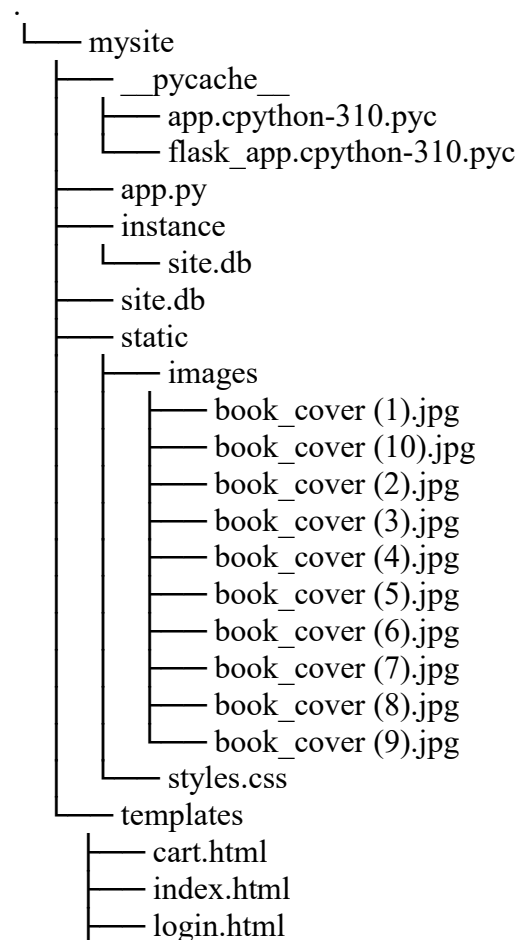
```
pip install flask-sqlalchemy
```

```
pip install flask-login
```

Step 5: Upload Flask app

Head to the 'Files tab', go to 'mysite/'. Remove the placeholder file in there (myflask.py).

Upload your files one by one into the mysite/ folder. Your file folder structure should look like this:



- logout.html
- purchase_error.html
- purchase_success.html
- search_results.html
- signup.html

Step 6: Configuring your Flask app

Go to 'Web' tab, click on 'WSGI configuration file', and then change this line of code 'from app import app as application' to 'from flask_app import app as application'.

This needs to be done since our app name is app.py.

Step 7: Linking the virtual environment

Go to Web tab, and then scroll down to virtualenv section. Click on 'Enter path to a virtualenv, if desired' and enter 'myvirtualenv' to define our virtual environment path. Scroll up and then click Reload

Step 8: Visiting the link of the deployed Flask app

In the Web tab, you should see your link at the 'Configuration for <website_name>'.

In our case it is 'syarifh.pythonanywhere.com'.

Click the link to visit your website.

