



# Implementing a Dash based Web Application with Heroku Platform

1. Go to <https://github.com/> and create a free account;
2. Now log in and create a new repository:

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)


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Owner:  nalpalhao / Repository name \*: appropriate 

Great repository names are short and memorable. Need inspiration? How about [fluffy-octo-giggle?](#)

Description (optional)

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☒  **Public**  
Anyone can see this repository. You choose who can commit.

☐  **Private**  
You choose who can see and commit to this repository.

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Skip this step if you're importing an existing repository.

☒ **Initialize this repository with a README**  
This will let you immediately clone the repository to your computer.

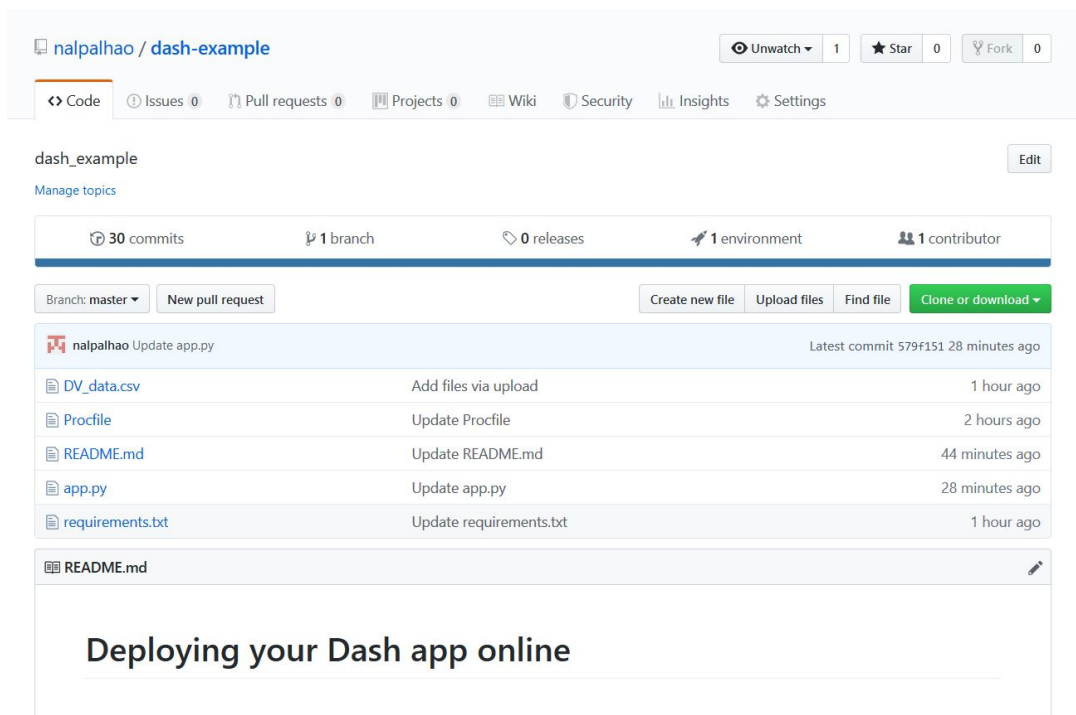
Add .gitignore: **None** | Add a license: **None** ⓘ

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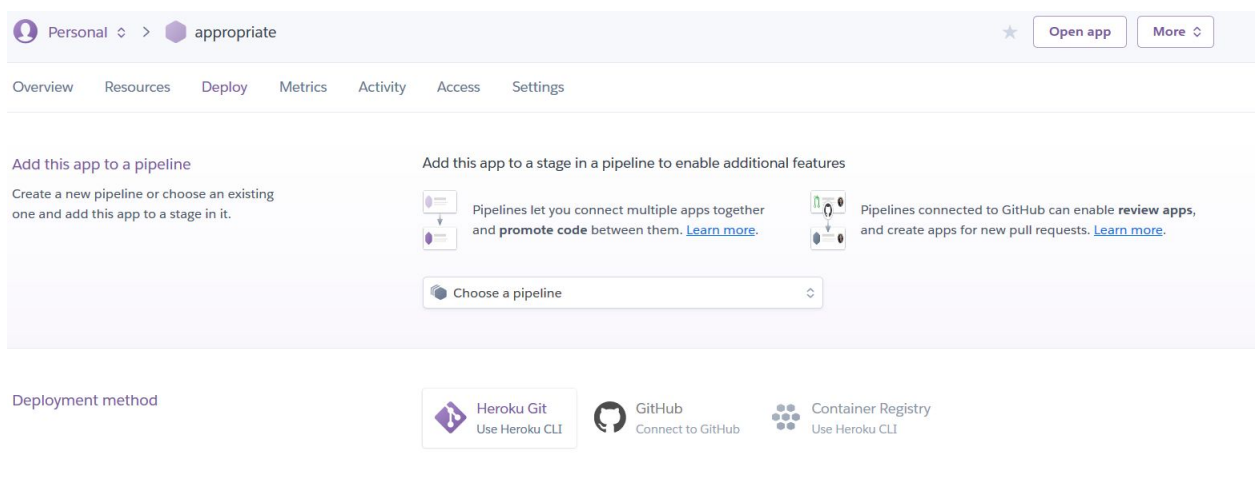
[Create repository](#)

3. Confirm that it is 'Public' and choose an appropriate name for it;
4. In order to run an application on Heroku platform you'll need to have in your repository at least three files:
  - a. *Procfile* - to explicitly declare what command should be executed to start your app (for our specific needs it's always the same file);
  - b. *Requirements.txt* - where you'll define all the libraries needed to run your app;
  - c. *App.py* - Since the course is in python, this is where you'll put all the code needed to successfully run your application.
5. In the probable case where your app needs a particular dataset you'll have to upload it to the repository as well;

6. For this introduction we'll provide all the files needed to quickly run a demo, so your repository should look something like this:



7. Now that you have your git all set up go to <https://signup.heroku.com/> and create a free account;
8. Create a new app, do not forget to set the region to Europe and choose an appropriate name, it should look something like this:



9. Click on the button saying 'deploy' on the upper tab and in the 'deployment method' choose GitHub, this will redirect you to a GitHub page where you'll log in with your newly created account;
10. Search and choose your appropriately named repository:

Deployment method

Heroku Git  
Use Heroku CLI

GitHub  
Connect to GitHub

Container Registry  
Use Heroku CLI

Connect to GitHub

Connect this app to GitHub to enable code diffs and deploys.

Search for a repository to connect to

nalpalhao repo-name Search

Missing a GitHub organization? [Ensure Heroku Dashboard has team access.](#)

nalpalhao/appropriate Connect

nalpalhao/dash-example Connect

11. Shortly after, a new set of options should appear below where you'll be able to manually deploy your application or set it to automatically deploy whenever you change your git repository;
12. If everything went well then everyone should be able to access your newly created app:

'https://' - your apps name - '.herokuapp.com/'

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more.](#)

Choose a branch to deploy

master Deploy Branch

Receive code from GitHub

Build master 579f1513

Release phase

Deploy to Heroku

Your app was successfully deployed.

View

13. Now you have everything set up, to modify your app you'll need to change it in the GitHub repository (remember to add all needed libraries in the 'requirements.txt' file) and redeploy the app (not needed if you enabled 'automatic deploy' previously).

Note:

If any problem occurs during the deployment you can click on the 'Activity' button on your Heroku's apps web page and access the log files of any particular deployment to have a deeper understanding of what went wrong.