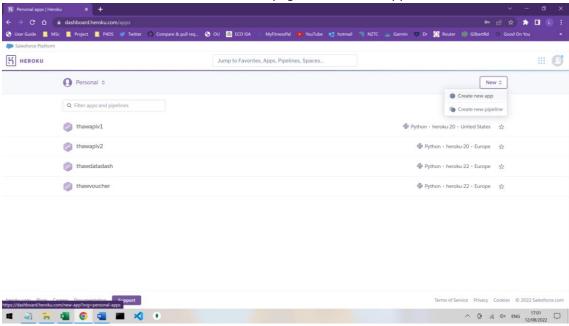
Hosting and Deploying the API on Heroku

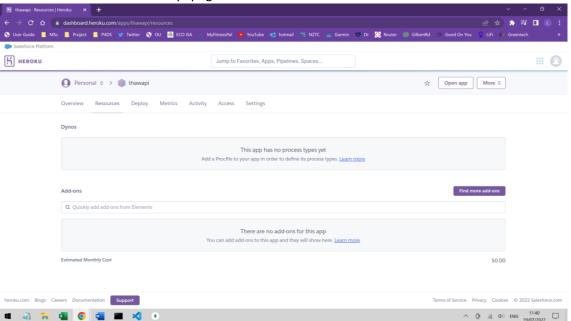
1. Via the Website

First attempt for deploying the Flask app used used the same method for creating app as used for the Streamlit app. For deploying Streamlit follow these instructions.

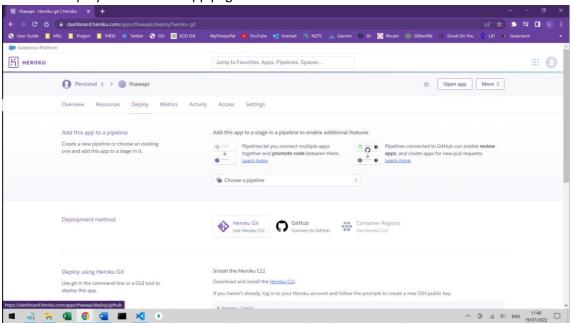
Create a Heroku account and from the home page create a new app:



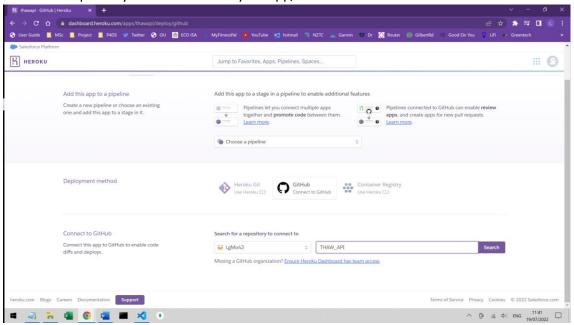
Here is shown the new thawapi page:



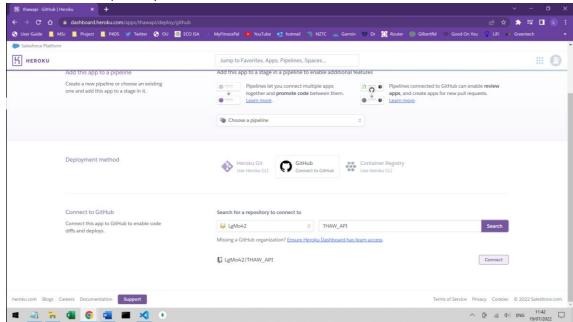
From the Deploy menu on the app page connected to GitHub:



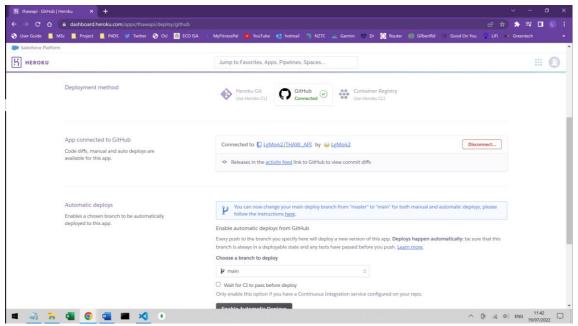
Search for repository with the code for your app/API:



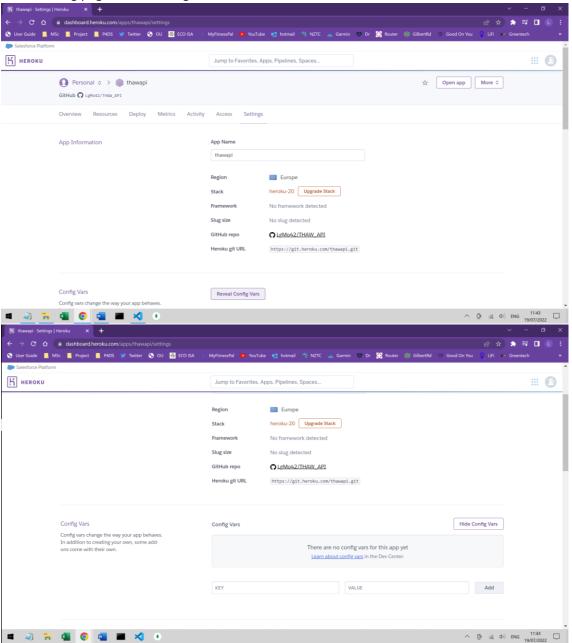
Connect to the repository:



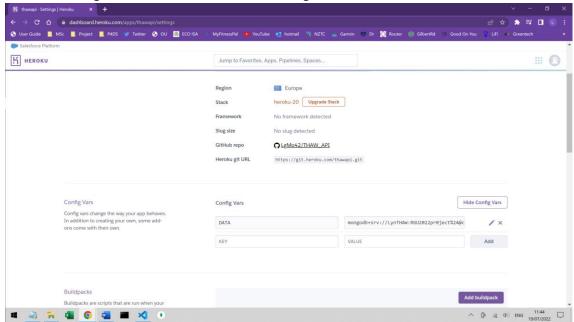
Connected!



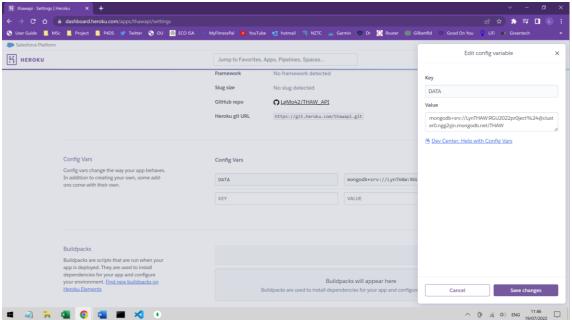
From Setting page reveal config vars:



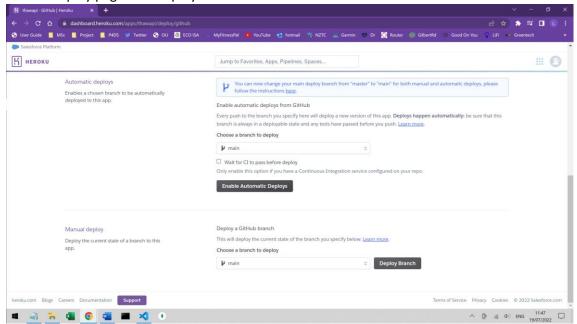
Enter the config var details for connection to MongoDB Atlas THAW database:



If you click on edit you can see the full link:

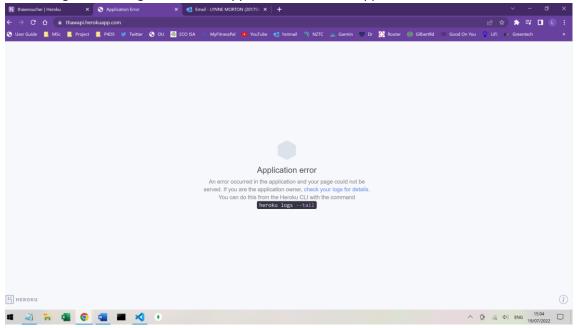


On the Deploy page click deploy branch:



Here branch is main and here are no other options. When developing the app in another branch can be deployed from to test it before merging the new branch with the main and overwriting a working version.

Something went wrong for the Flask app. For the streamlit app the above works.



2. Via Heroku Cli

A search online suggested flask apps need to be uploaded using the Heroku Cli. Once downloaded and installed the command prompt was used to create and deploy the flask app successfully. This was done by following the tutorial on https://www.youtube.com/watch?v=SiCAIRcOpEI

Open command prompt from folder that app is in or navigate to it via cd command.

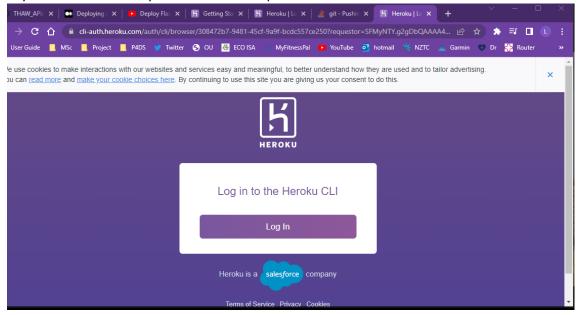
Type: heroku login

```
Command Prompt - heroku login
                                                                                                                                                                ---> No change in requirements detected, i
---> Using cached install of python-3.10.5
          ----> Installing pip 22.1.2, setuptools 60.10.0 and wheel 0.37.1 ----> Installing SQLite3
         ----> Installing requirements with pip
          ----> Discovering process types
Procfile declares types -> web
 mote:
 mote:
              ---> Compressing...
                 Done: 58.2M > Launching...
  mote:
  mote:
                    Released v8
                    https://thawapiv1.herokuapp.com/ deployed to Heroku
  mote:
 mote: To upgrade to Heroku-22, see:
mote: https://devcenter.heroku.com/articles/upgrading-to-the-latest-stack
 mote: Verifying deploy... done.

https://git.heroku.com/thawapiv1.git

e3214ce..937da7c main -> main
:\Users\llyn_\Desktop\THAW_Project\THAW_API>heroku login
      Warning: heroku update available from 7
neroku: Press any key to open up the browser to login or <mark>q</mark> to exit:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/308472b7-9481-45cf-9a9f-bcdc557ce250?requestor=SFMyNTY.g
.gDbQAAAA4zMS4xODUuMjM5LjE2Nm4GAMCVqxaCAWIAAVGA.FlYQcPJBqWzFPBpO4Rom4zhxWe_lkQEDJhk0rWRhTE0
leroku: Waiting for login... |
```

This will open a page in the browser. If logged in already you will see the screen below. If not logged in you will be asked for your username and password.



After logging in create the Heroku app by typing: heroku create (To set app name as thawapiv2 and region as eu type: heroku create thawapiv2 --region=eu)

To check Heroku app has been created type: git remote -v
This will show the Heroku apps http has been created and the repository it is linked to.

To deploy the code form the main branch type: git push heroku main

This will push the code from the main branch of the repository listed to the heroku app just created.

(To deploy from a branch type: git push heroku branchname:main)

```
Command Prompt
               Discovering process types
Procfile declares types -> web
 emote:
           --> Compressing...
Done: 58.2M
 emote:
           --> Launching...
Released v8
https://thawapiv1.herokuapp.com/ deployed to Heroku
 emote:
 emote:
 emote:
 emote:
 emote: Verifying deploy... done.
Fo https://git.heroku.com/thawapiv1.git
e3214ce..937da7c main -> main
 :\Users\llyn_\Desktop\THAW_Project\THAW_API>heroku login
ogging in... done
ogged in as l.morton7@rgu.ac.ul
 :\Users\llyn_\Desktop\THAW_Project\THAW_API>git push heroku main
verything up-to-date
  \Users\llyn_\Desktop\THAW_Project\THAW_API>
```

Once deployed there is a verify message and the heroku link will be active.

If you push the code without changes then the app will not redeploy and a message saying all is up to date will be output instead.

To remove the Heroku app type: git remote rm heroku

To access an existing app type: heroku git:remote -a appname

```
C:\Users\llyn_\Desktop\THAW_Project\THAW_API>git remote -v
heroku https://git.heroku.com/thawapiv1.git (fetch)
heroku https://git.heroku.com/thawapiv1.git (push)
origin https://github.com/LgMo42/THAW_API.git (push)

C:\Users\llyn_\Desktop\THAW_Project\THAW_API.git remote -v
heroku https://git.heroku.com/thawapiv1.git (fetch)
heroku https://git.heroku.com/thawapiv1.git (fetch)
heroku https://git.heroku.com/thawapiv1.git (fetch)
origin https://git.heroku.com/thawapiv1.git (fetch)
origin https://github.com/LgMo42/THAW_API.git (fetch)
origin https://github.com/LgMo42/THAW_API.git (push)

C:\Users\llyn_\Desktop\THAW_Project\THAW_API>git remote -v
origin https://github.com/LgMo42/THAW_API.git (fetch)
origin https://github.com/LgMo42/THAW_API.git (push)

C:\Users\llyn_\Desktop\THAW_Project\THAW_API.git (push)

C:\Users\llyn_\Desktop\THAW_Project\THAW_API.git (push)

C:\Users\llyn_\Desktop\THAW_Project\THAW_API.git (push)

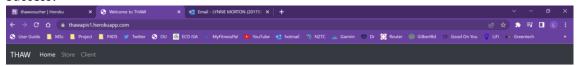
C:\Users\llyn_\Desktop\THAW_Project\THAW_API.git (fetch)
horigin https://git.heroku.update_available_from 7.53.8 to 7.60.2.
set git remote heroku to https://git.heroku.com/thawapiv1.git

C:\Users\llyn_\Desktop\THAW_Project\THAW_API.git (fetch)
heroku https://git.heroku.com/thawapiv1.git (push)

C:\Users\llyn_\Desktop\THAW_Project\THAW_API.git (fetch)
heroku https://github.com/LgMo42/THAW_API.git (fetch)
heroku https://github.com/LgMo42/THAW_API.git (push)

C:\Users\llyn_\Desktop\THAW_Project\THAW_API.git (push)
```

Success!





Welcome to the THAW API

For store transactions follow the Store link at the top of the page

For client login follow the Client link at the top of the page

Things that need done:

- 1. Add links to this page not have them hidden away at the top
- 2. Tidy up the client info page. Is there a more effecient way than what is there at present?
- 3. Add password protection. Def need this for client. What about store?

