How to publish a Streamlit app on the Internet?

1. Write your Streamlit app code, as shown below:

```
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"""

import streamlit as sl

sl.title('Welcome to MA346: Data Science')
sl.header('-----------------------------------------------------------------')
sl.success('Sadly, very little school maths focuses on how to win free drinks in a pub. - Matt Parker, Things to Make & Do in the Fourth Dimension')
sl.info('This is a brief on how to publish a web-app built in python using streamlit and Heroku. Hope it is helpful.')
```
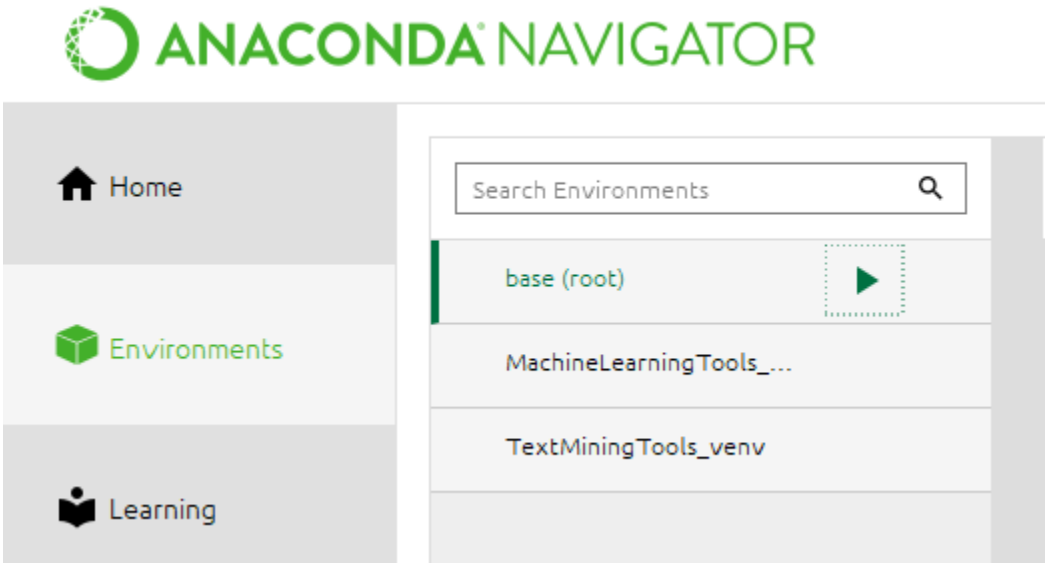
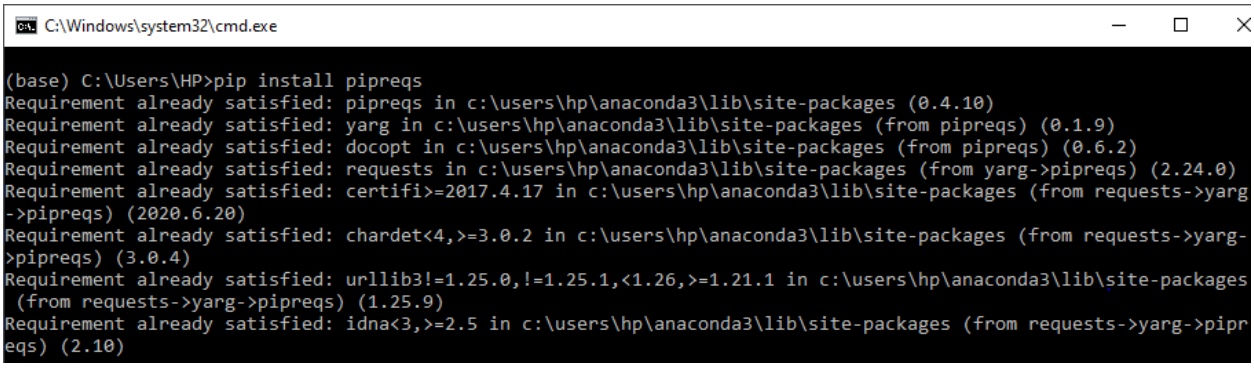

2. Log In/Create a GitHub account and place the concerned python file as well as all data and related files into a new repository. While creating a repository, make sure to check the 'Add README file' checkbox.
3. Open Anaconda, then go to environments, followed by 'Open Terminal'. This can be found by clicking the green arrow next to 'base(root)'.

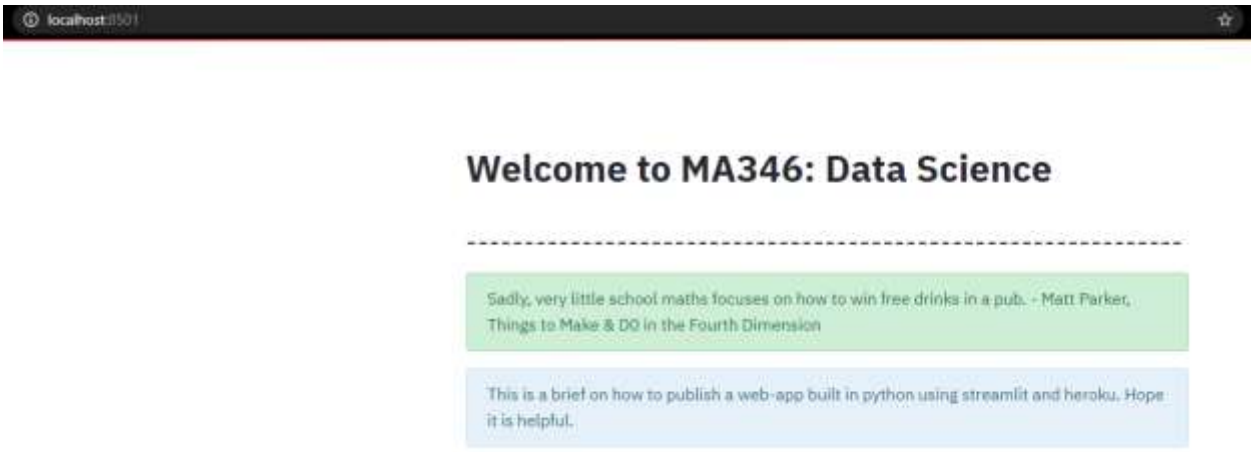


4. In the terminal write 'pip install pipreqs' and press Enter.

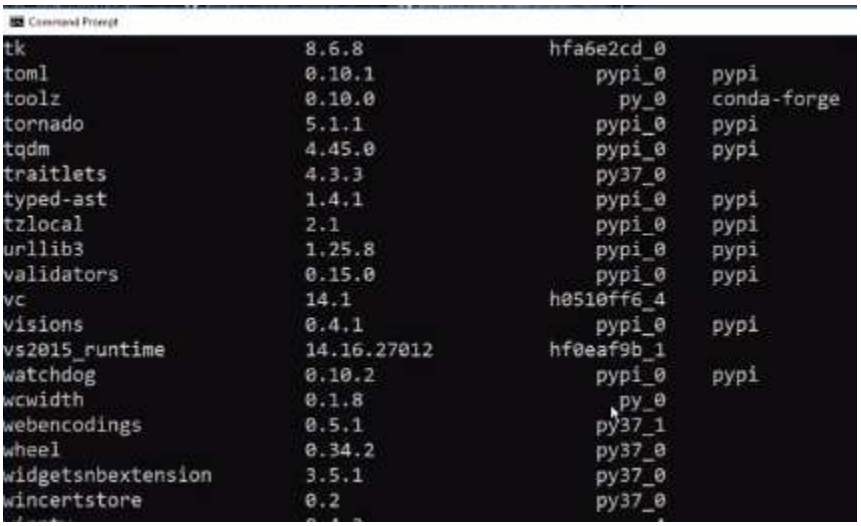


5. Run you streamlit program to check if it runs fine, using the command ‘streamlit run <filename>’, make sure that the file is located in the right folder (This folder will be same as where conda and its derivative platforms files are located, generally in C:\Users\....).

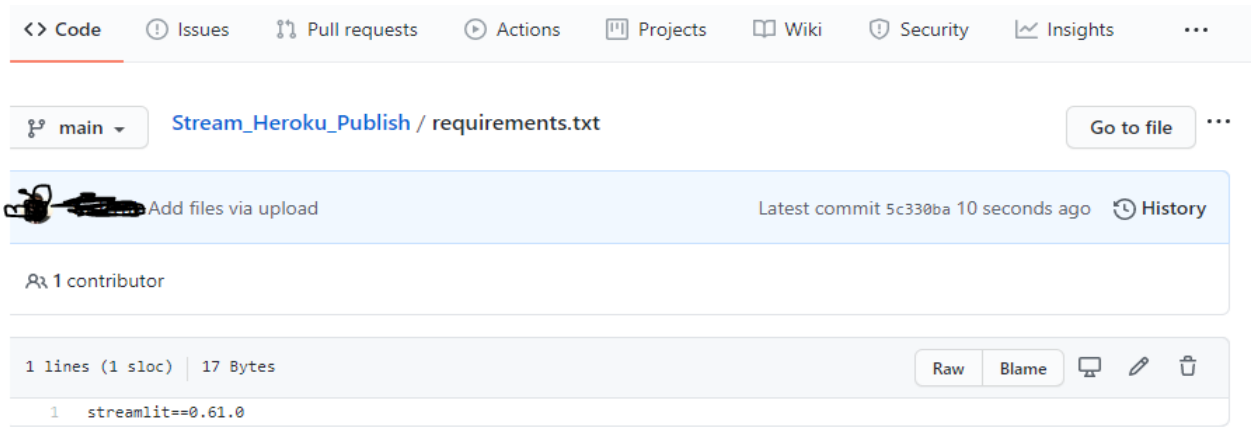
```
(base) C:\Users\HP>streamlit run stream_heroku_publish_app.py

  You can now view your Streamlit app in your browser.

  Local URL: http://localhost:8501
  Network URL: http://192.168.40.241:8501
```



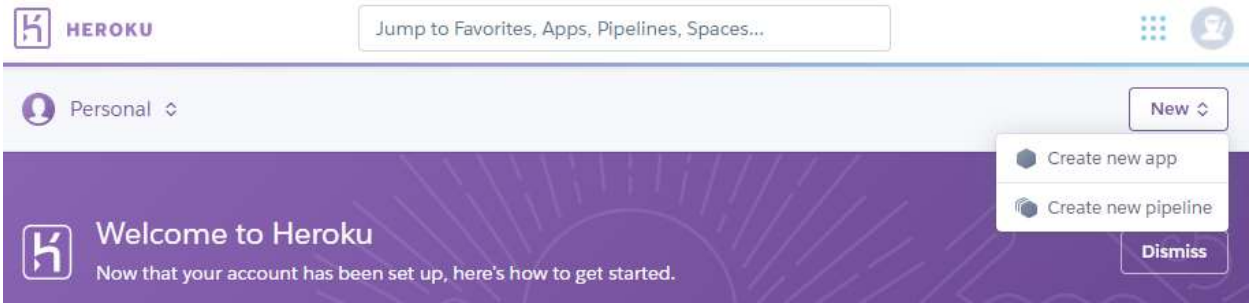
6. Now open the command prompt and activate conda by typing ‘conda activate’, followed by get the version list by typing ‘conda list’. This will show you version off all packages and their version. Make sure to note the version of all the packages that are being used the concerned python program including streamlit.



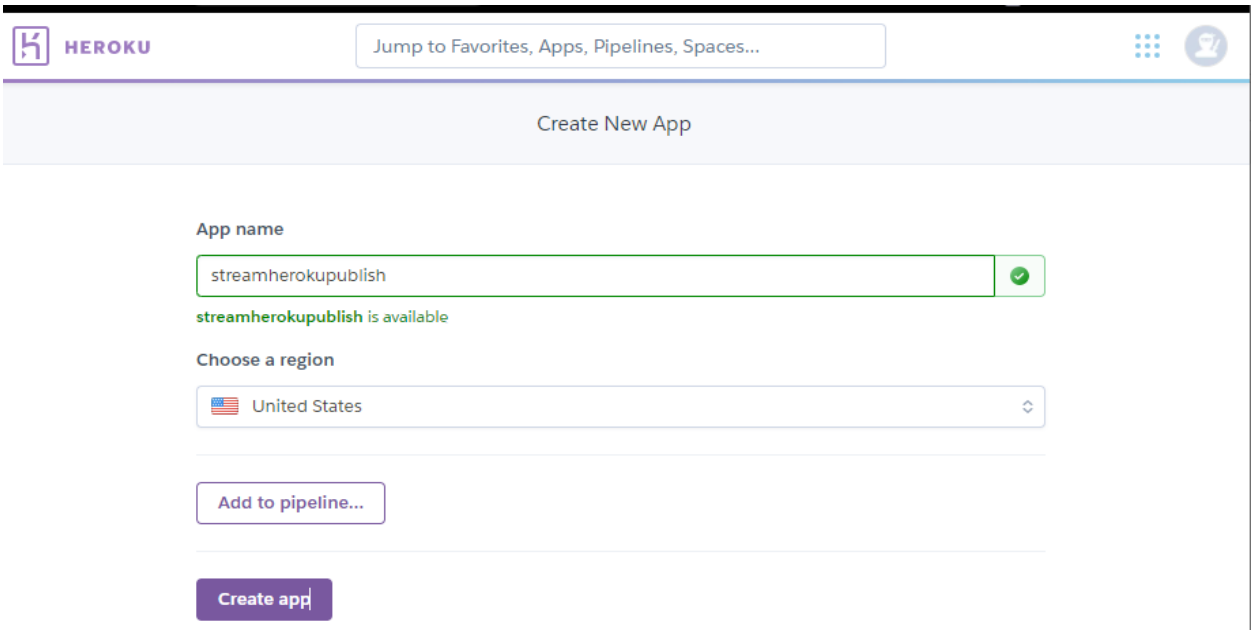
7. Type all the versions with the names in a text file and name is ‘requirements.txt’ and upload it to repository.



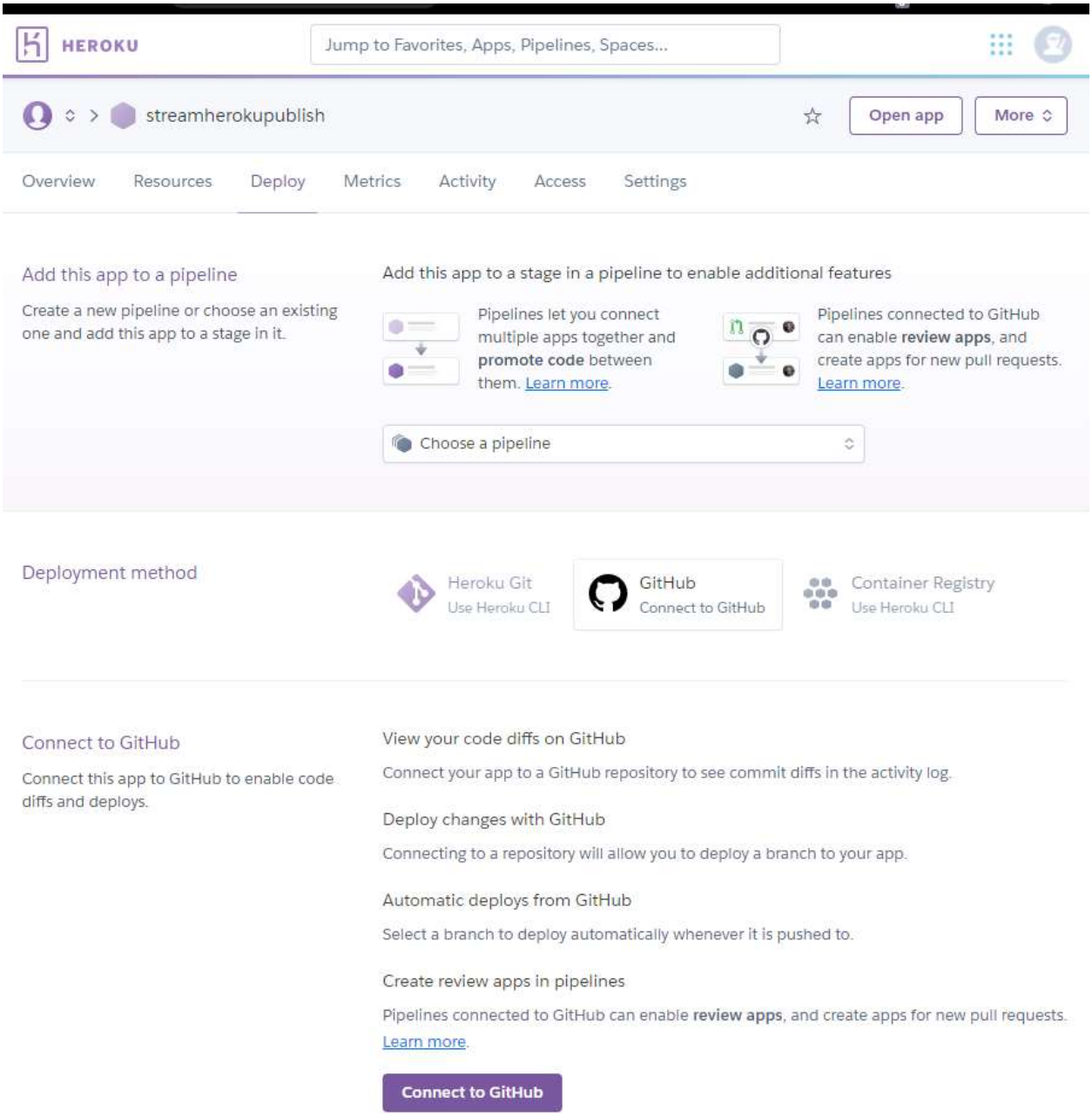
8. Add two more files in the repository, Procfile & setup.sh. (Ask lecturer for these files). Don't forget to put an academic email id in the setup.sh file.
9. Go to Heroku official website, login/create to an account. Once logged in, click on 'New', then, 'Create New App'.



10. After that make sure you name your app, such that it is available, which will be green else a red warning sign will be appearing at the end of the naming tab. Keep region of server as 'United States'. Click of on 'Create App'.



11. Do not alter the ‘Add this app to pipeline’ tab. In the ‘Deployment method’ tab, click on the ‘Github: Connet to Github’. The third tab will change to ‘Connect to Github’, click on ‘Connect to Github’.



12. The last step is to search your repository name in the search bar, click on ‘Search’, click on ‘Connect’. Deploy the app using ‘Manual deploy’ by clicking on the ‘Deploy Branch’, do not use the automatic deploy else each time the source code changes in the repository, it will change your web-app automatically, this can initiate unwanted changes. Wait for it to process and once done it will create a ‘View’ button at the bottom, click on it.

    Your app will open in a new tab, copy the link and share. Done!!!