Week 5 Assignment: Cloud and API deployment

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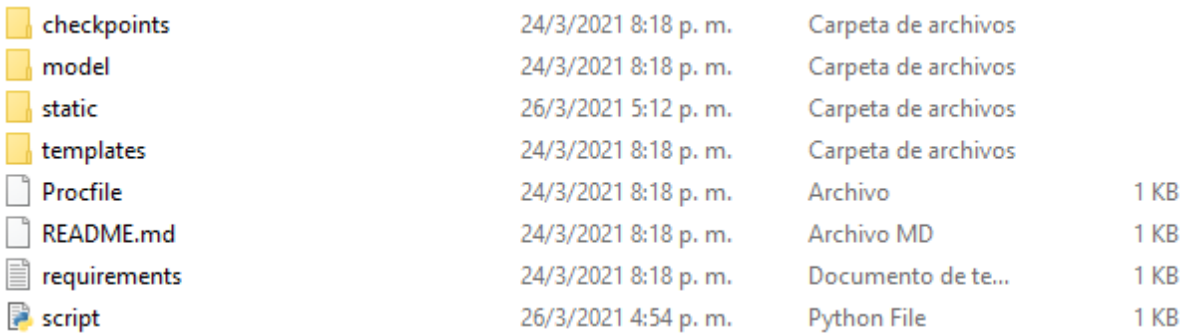
Submitted to: Data Glacier

The following document will show the steps that were necessary to complete the task for week 5.

- **Step 1**: create structure and folders for the assignment. This structure must to be similar to,

```
-- checkpoints
---- model_freddy.pkl
-- model
---- Week4_model.py
-- static
---- css
-------- template.css
---- images
-------- img.jpg
-- templates
---- index.html
-- Procfile
-- README.md
-- requirements.txt
-- script.py
```



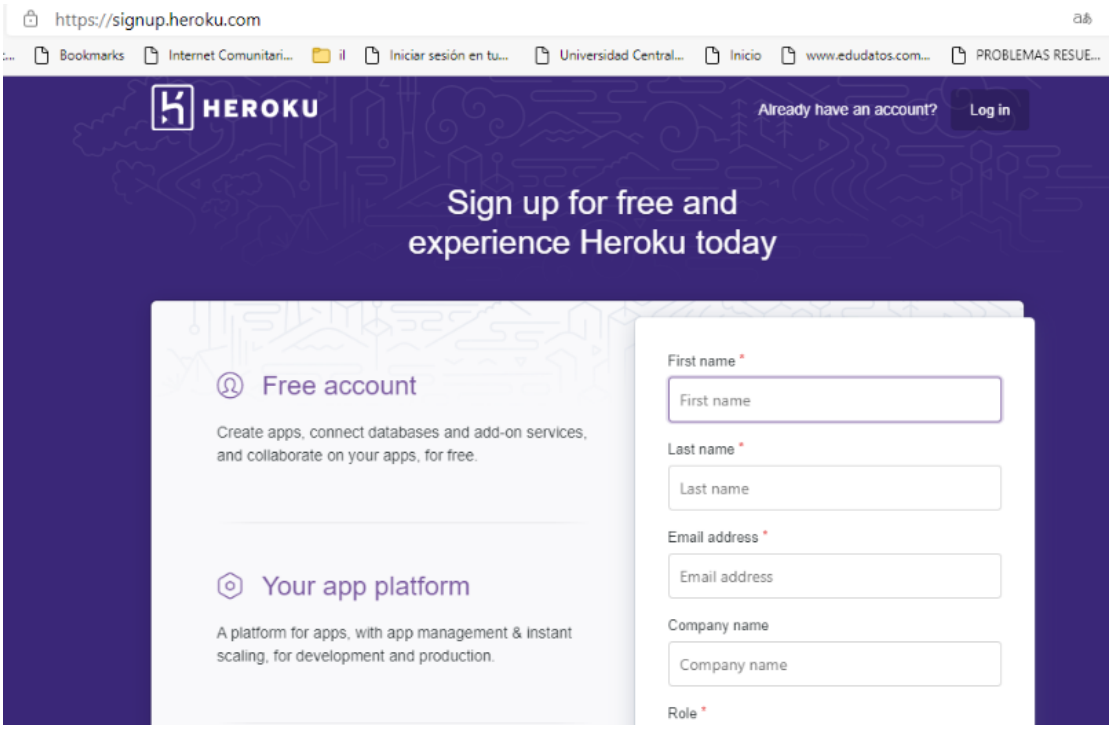
Each folder contains,

1. **checkpoints**: contains the model saved in a pkl format.
2. **model**: contains a python script that was used to generate the model and work with the simple dataset.

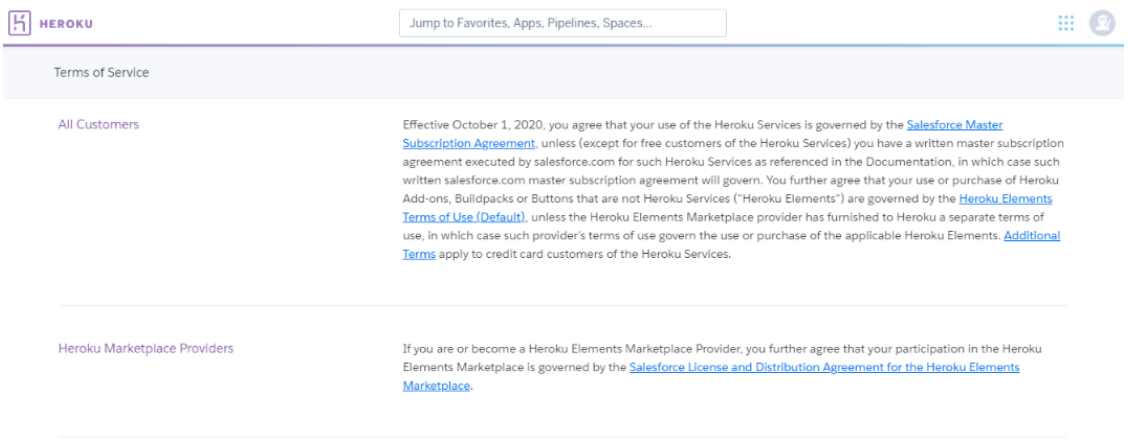
3. **static:** contains two folders, one for css files and the second for images that will be used in the html file.
4. **templates**: contains a html file (“index.html”) which will provide an interface for the user.

The “Procfile” is a file that is important at the moment to deploy in Heroku. The “README.md” file is a file that will be used in the description of the repository of Github. The “requirements.txt” file is useful to know which packages the API will use. The “script.py” file is the main file for the project, it contains the code for the API.

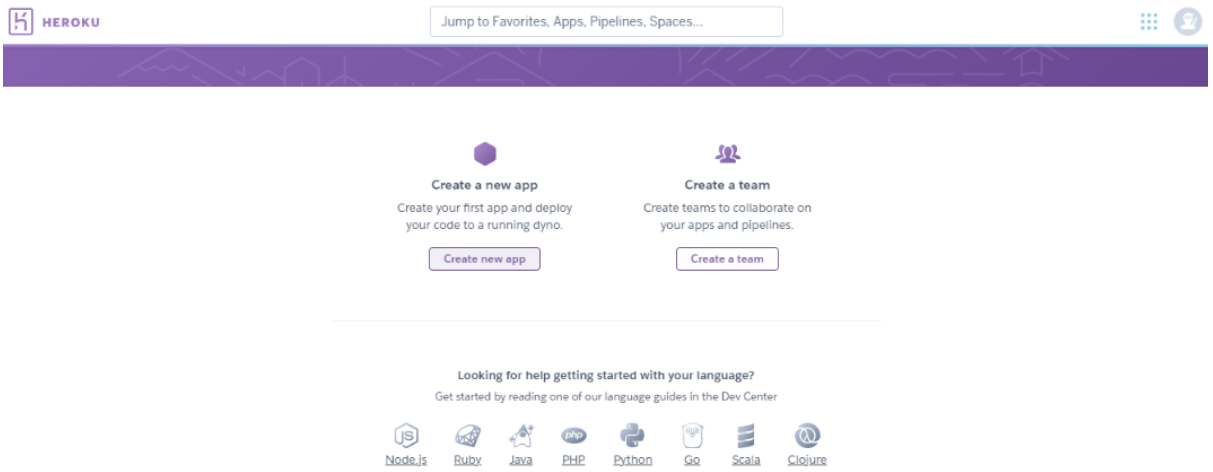
- **Step 2**: Create an account on the web page of Heroku.



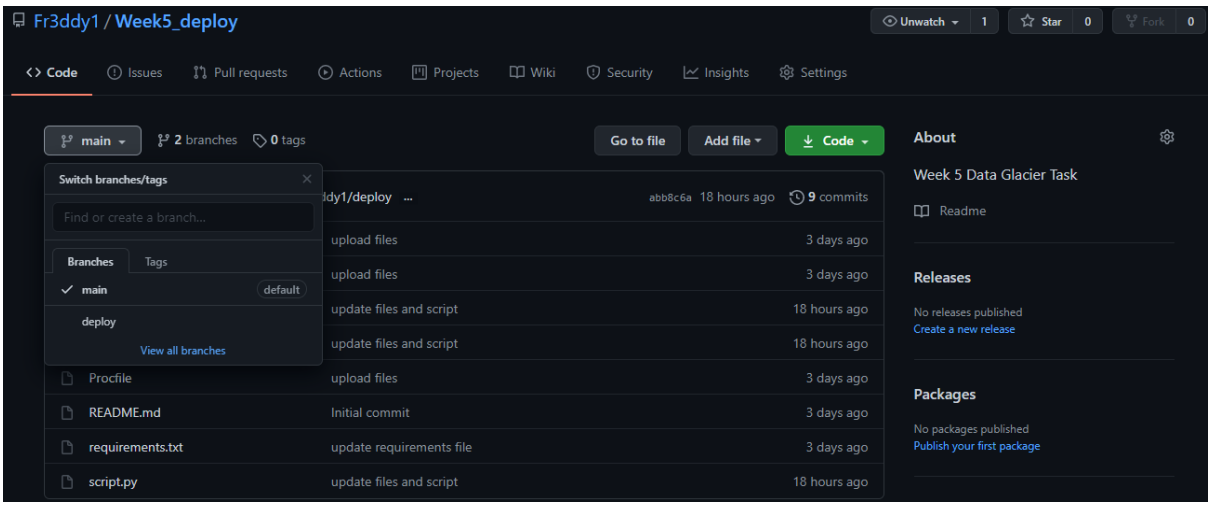
Accept the terms of the service,



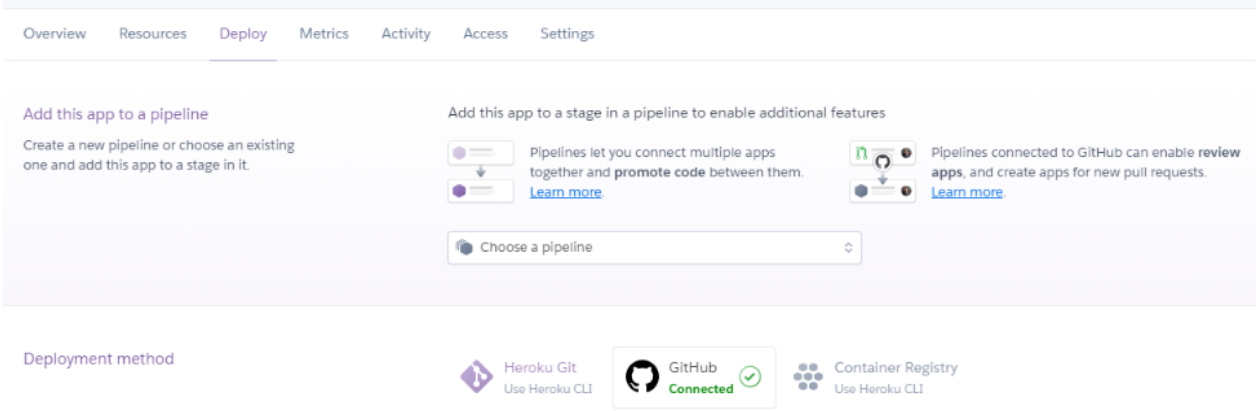
In the Heroku dashboard create an app,



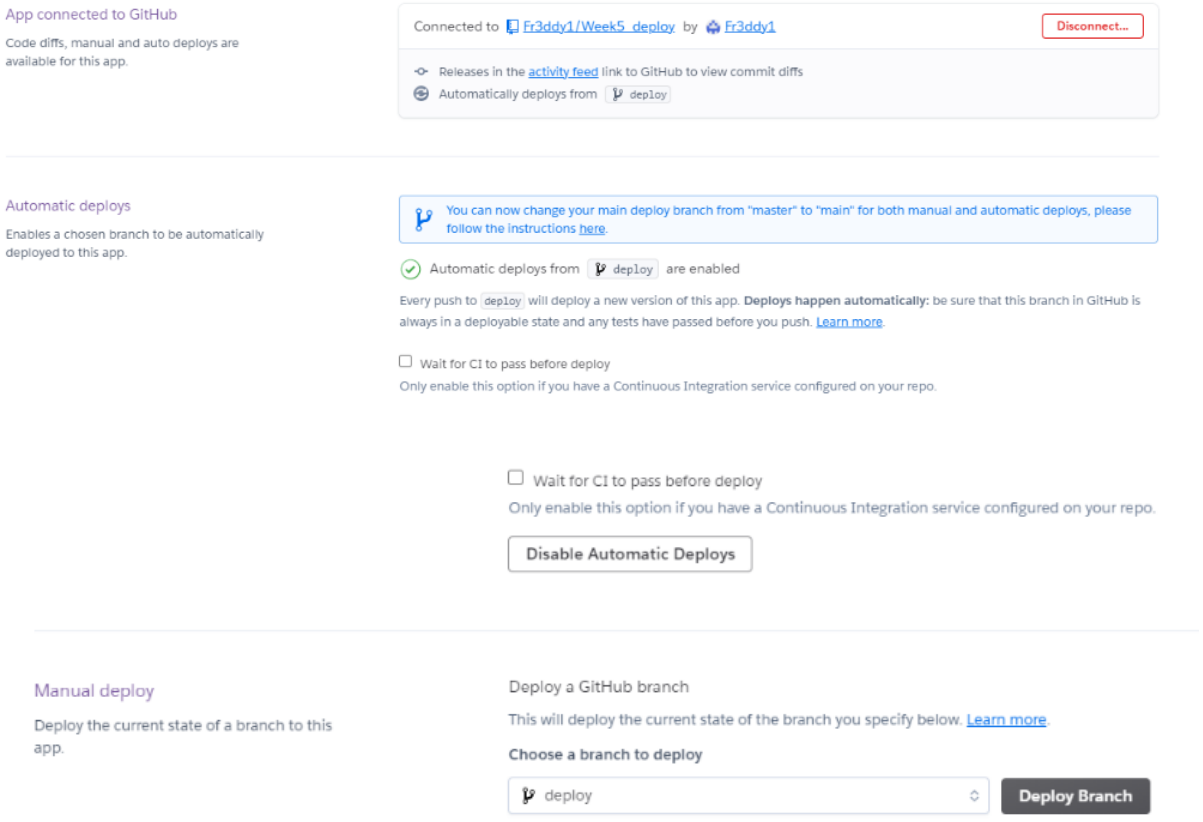
- **Step 3**: create a repository on github with the files and folder that are mentioned in step 1. And created a branch named “deploy” in order to connect this branch with the Heroku dashboard.



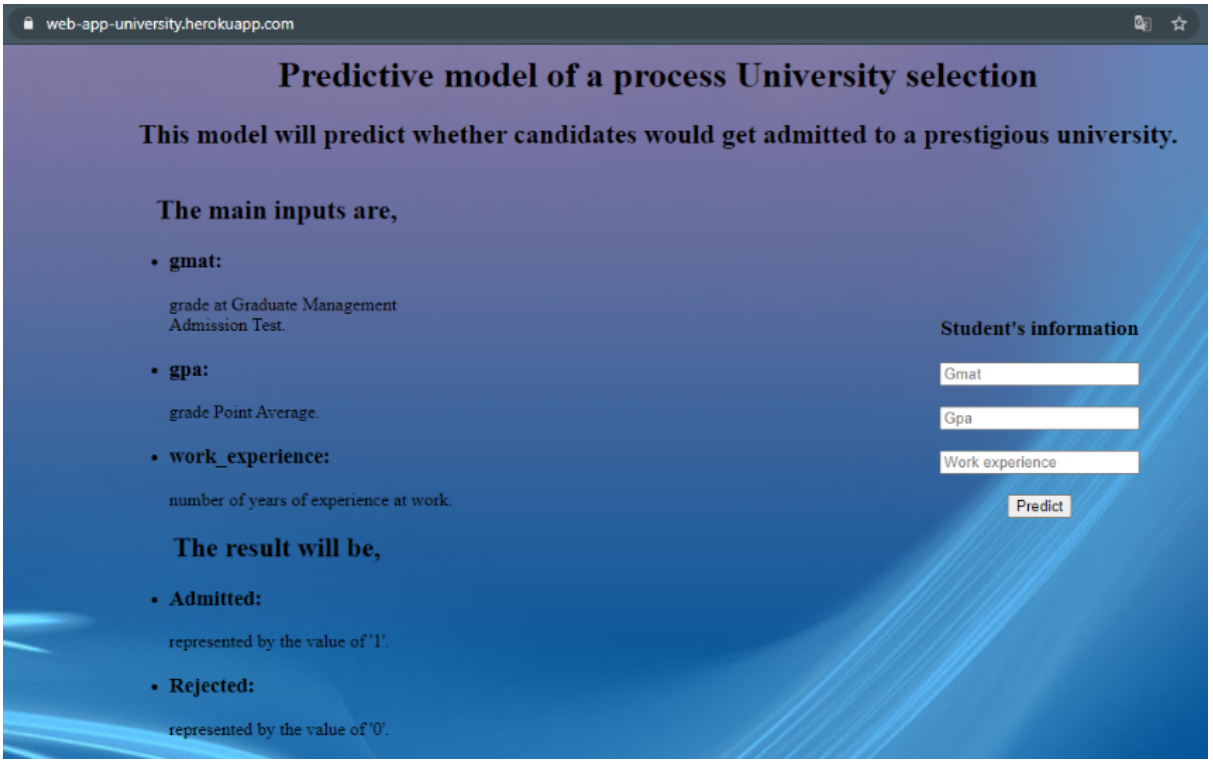
- **Step 4**: connect the deploy branch to the Heroku dashboard. To do that, yo must go to the “Deploy” tab in the dashboard,



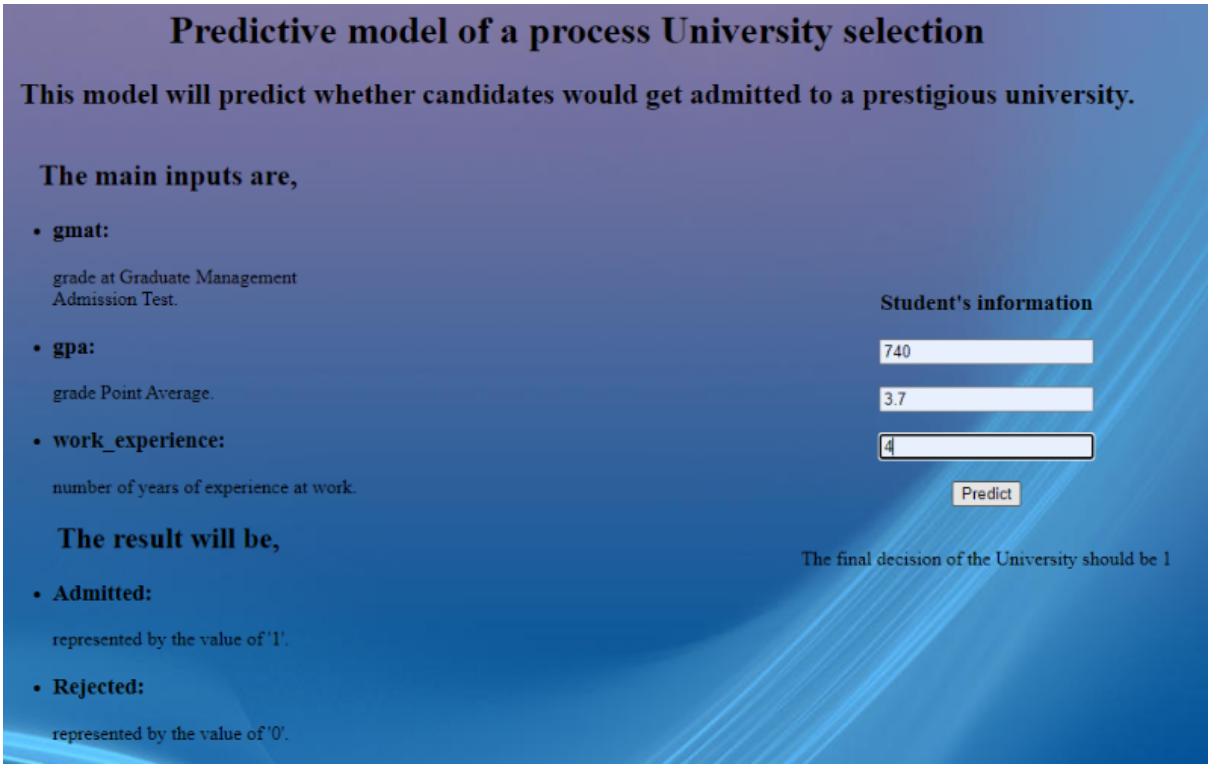
Then connect the repository and deploy the app with the “Deploy branch” button,



- **Step 5**: wait for the process of deployment and then go to the url of the web app (https://web-app-university.herokuapp.com/) and use it, do a pair of examples in order to see the results.



Example of approved student:



Example of rejected student: