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Batch Code: LISUM10: 30

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Submitted to:

Snapshot of Deployment on Heroku(Web Based):

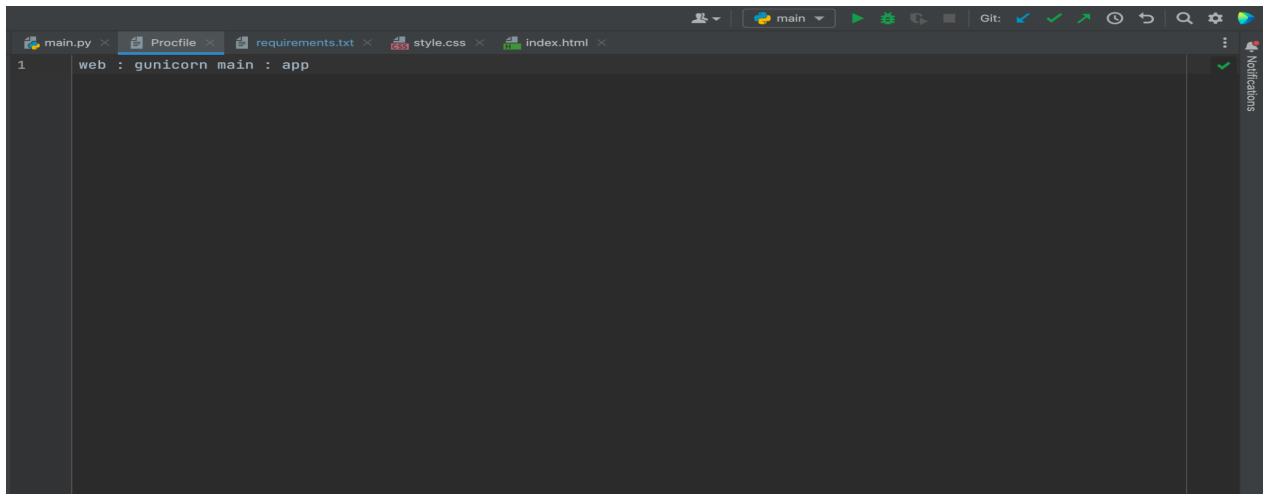
1st) Create model and deploy it on Flask(as Week4 Pdf):

Changes: In main File remove host from app.run()

Screenshot:

```
if __name__ == "__main__":  
    app.run()
```

2nd : create Procfile



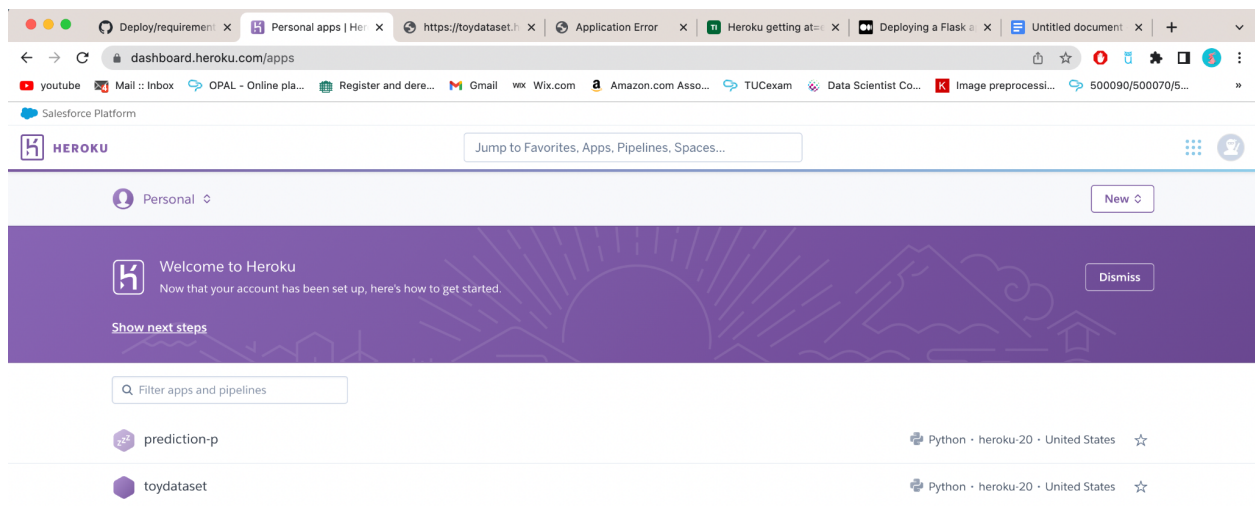
The screenshot shows a code editor with a dark theme. The top bar displays the file name 'main.py' and a dropdown menu with 'main'. Below the top bar, there are several tabs: 'main.py', 'Procfile', 'requirements.txt', 'style.css', and 'index.html'. The 'Procfile' tab is active, showing a single line of code: 'web : gunicorn main : app'. The left margin shows a line number '1'. The right side of the editor has a sidebar with a 'Notifications' icon.

### 3rd: Create Requirements.txt and runtime.txt

```
1 Flask == 1.1.1
2 gunicorn == 19.9.0
3 itsdangerous == 1.1.0
4 jinja2 == 2.10.1
5 MarkupSafe == 1.1.1
6 werkzeug == 0.15.5
7 numpy >= 1.9.2
8 scikit-learn >= 0.18
9 matplotlib >= 1.4.3
10 pandas >= 0.19
```

In runtime Add python version.....

### 4th: Open Heroku from Google and create new project I have created toydataset..



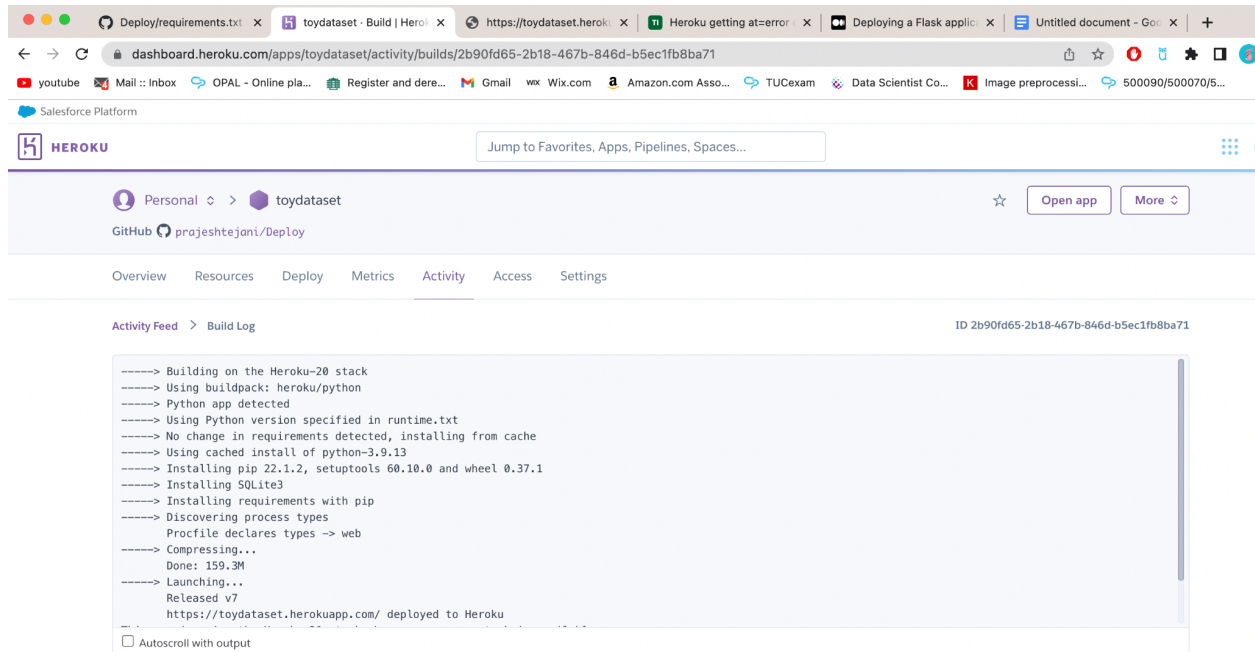
### Connect Github with Heroku and Deploy it by Deploybranch manually..

Deploy a GitHub branch

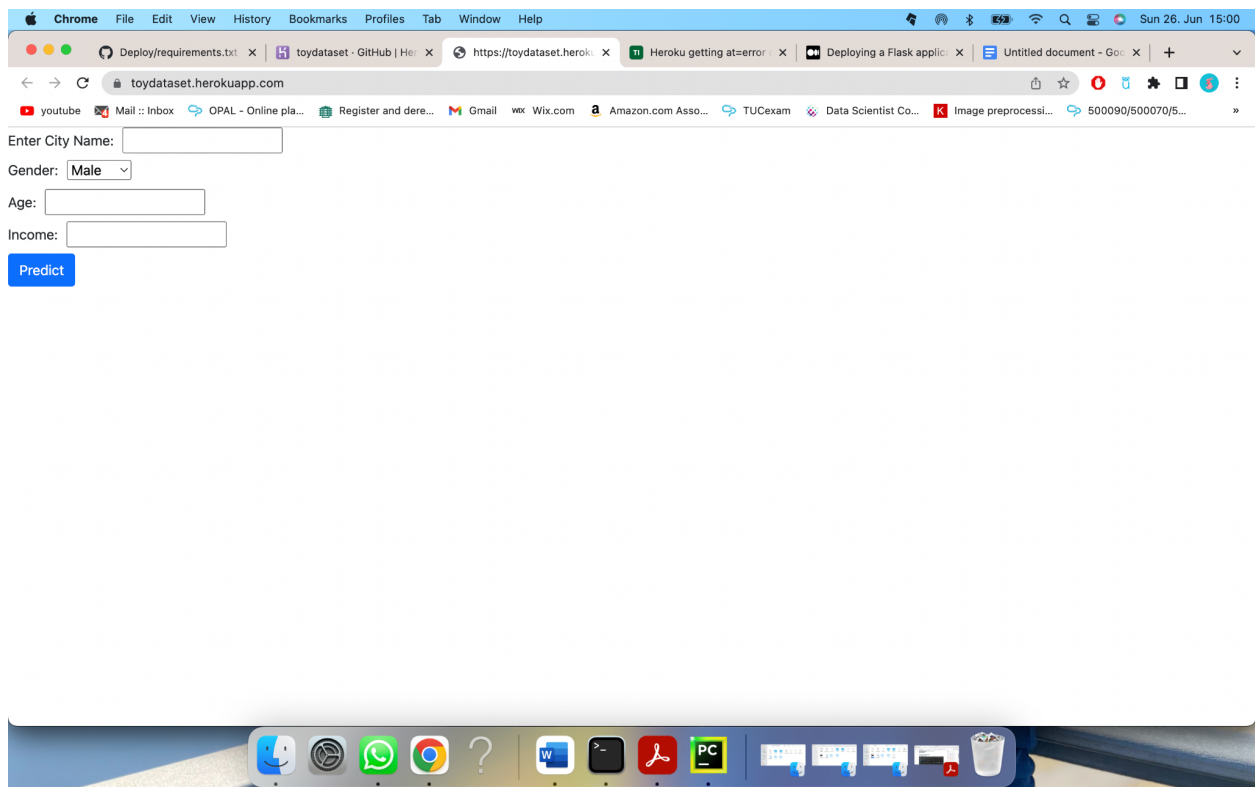
This will deploy the current state of the branch you specify below. [Learn more.](#)

Choose a branch to deploy

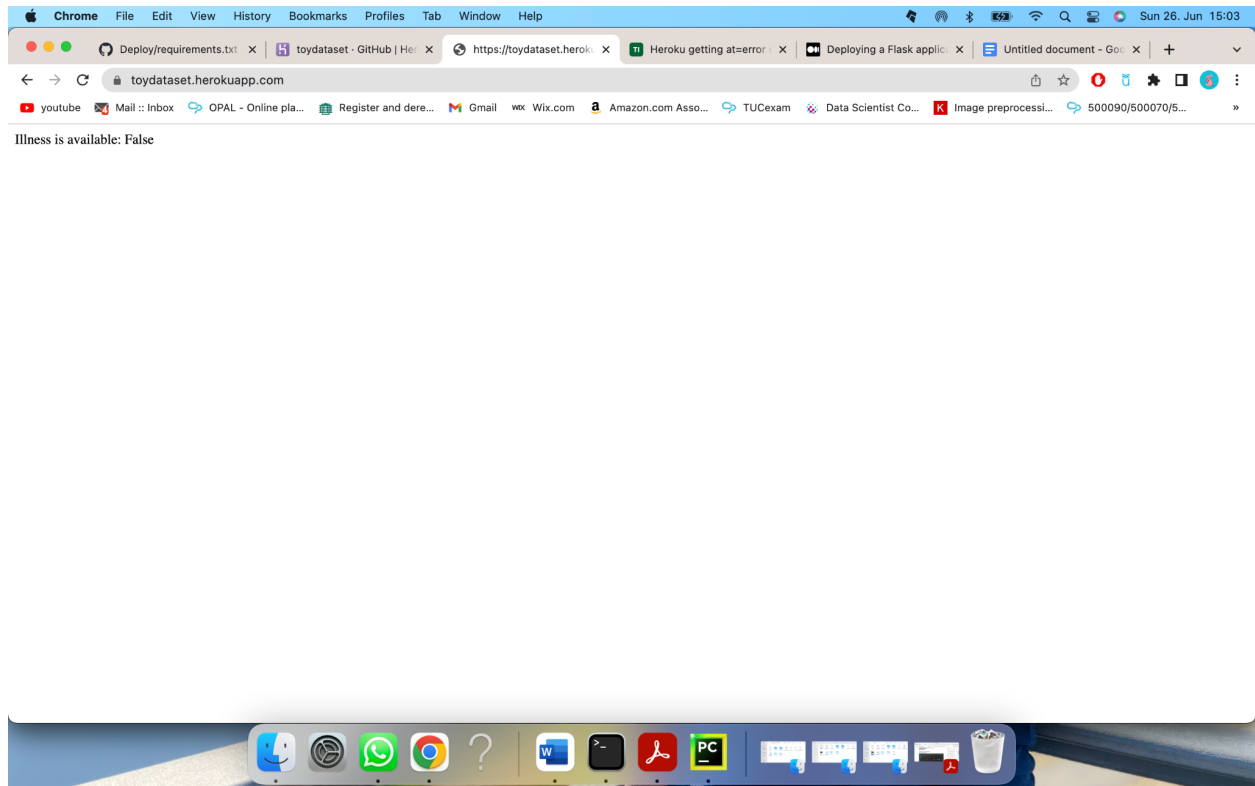
After deploying...it will be run and install our requirements from requirements.txt and runtime.txt.



After compressing Launch the app...



Finally Our model is deployed on Heroku..  
After Input and pressing predict button it will show our Output as below



API Based Deployment on Heroku using Postman:

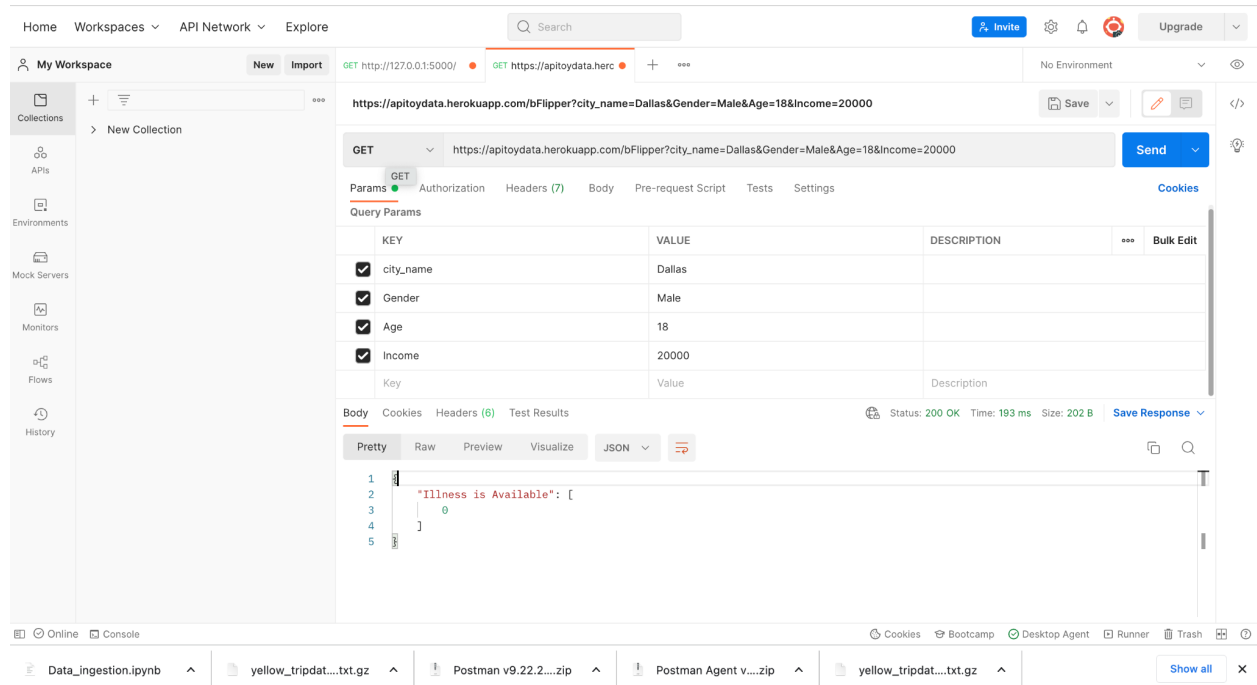
- 1) Same step as Web based only changes in main file as below:

```
main.py style.css index.html
Package requirements 'fonttools==4.25.0', 'munkres==1.1.4' are not satisfied Install requirements Ignore requirements
49 from flask import Flask, jsonify, request
50 import json
51
52 app = Flask(__name__)
53 app.static_folder = 'static'
54
55
56 @app.route("/", methods=['POST', 'GET'])
57 def home():
58     if request.method == 'GET':
59         data = "hello Welcome"
60         return jsonify({'data': data})
61
62
63 @app.route("/bFlipper")
64 def bFlipper(output=None):
65     City = request.args.get('city_name')
66     Gender = request.args.get('Gender')
67     Age = request.args.get('Age')
68     Income = request.args.get('Income')
69
70     Input = pd.DataFrame({'City': [City], 'Gender': [Gender], 'Age': [Age], 'Income': [Income]})
71
72     y_prediction = loaded_model.predict(np.array(Input).tolist()).tolist()
73
74     print(y_prediction)
75
76     return jsonify({'Illness is Available': y_prediction})
77
78
79 if __name__ == "__main__":
80     app.run(debug=True, host="0.0.0.0", port=8080)
81
```

For Deployment also same steps but in Heroku app it shows like this:

```
< - - - - - apitoydata.herokuapp.com
youtube Mail :: Inbox OPAL - Online pla... Register and dere... Gmail Wix.com Amazon.com Asso... TUCexam Data Scientist Co... Image preprocessi... 500090/500070/5...
{"data": "hello Welcome"}
```

Now we have to copy the project link and paste it in Postman and using GET method write the key and value as below:



Our App is Successfully Deployed..