

Week 5(Model API & Heroku Deployment)

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Batch Code: LISUM01

Submission date: 3/7/2021

Submitted to: Data Glacier

```
@app.route('/predict', methods=['GET','POST'])
def predict():
    model = pickle.load(open('model.sav', 'rb'))
    cp = int(request.args.get('cp'))
    max_heart = int(request.args.get('max_heart'))
    angia = int(request.args.get('angia'))
    st = float(request.args.get('st'))

    res = model.predict([[cp,max_heart,angia, st]])

    return jsonify([result=str(res[0])])
```

New url to serve API requests

The screenshot shows a web browser's developer tools interface. At the top, a GET request is shown to the URL `localhost:5000/predict?cp=2&max_heart=110&angia=1&st=0.8`. Below this, the 'Params' tab is active, displaying a table of query parameters: `cp` (2), `max_heart` (110), `angia` (1), and `st` (0.8). The 'Body' tab is also visible, showing the response body in JSON format: `{ "result": "0" }`. The status bar at the bottom indicates a 200 OK response with a response time of 521 ms and a body size of 160 B.

Param	Value
cp	2
max_heart	110
angia	1
st	0.8

```
{
  "result": "0"
}
```

200 OK 521 ms 160 B

Working API request

```
C:\Users\Uthej Goud\Documents\Work\Data Glacier\Week 4>heroku create
» Warning: heroku update available from 7.53.0 to 7.56.0.
Creating app... done, ⬢ calm-castle-95837
https://calm-castle-95837.herokuapp.com/ | https://git.heroku.com/calm-castle-95837.git

C:\Users\Uthej Goud\Documents\Work\Data Glacier\Week 4>
```

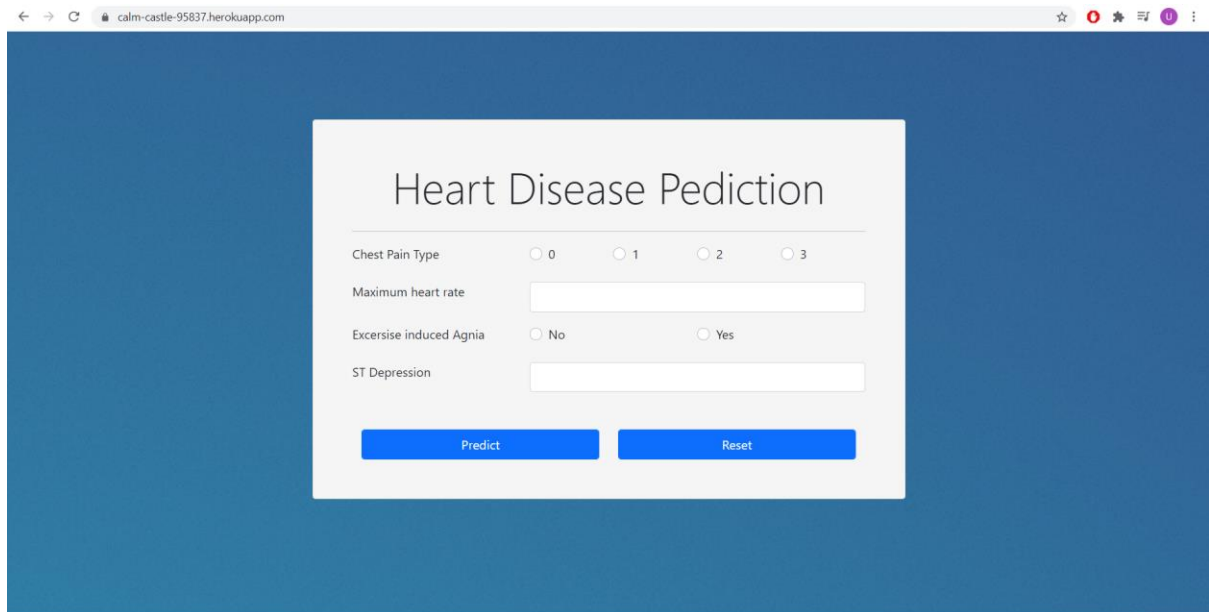
Create Heroku app

```
C:\Users\Uthej Goud\Documents\Work\Data Glacier\Week 4>git push heroku master
Enumerating objects: 22, done.
Counting objects: 100% (22/22), done.
Delta compression using up to 8 threads
Compressing objects: 100% (18/18), done.
Writing objects: 100% (22/22), 1.15 MiB | 995.00 KiB/s, done.
Total 22 (delta 3), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
```

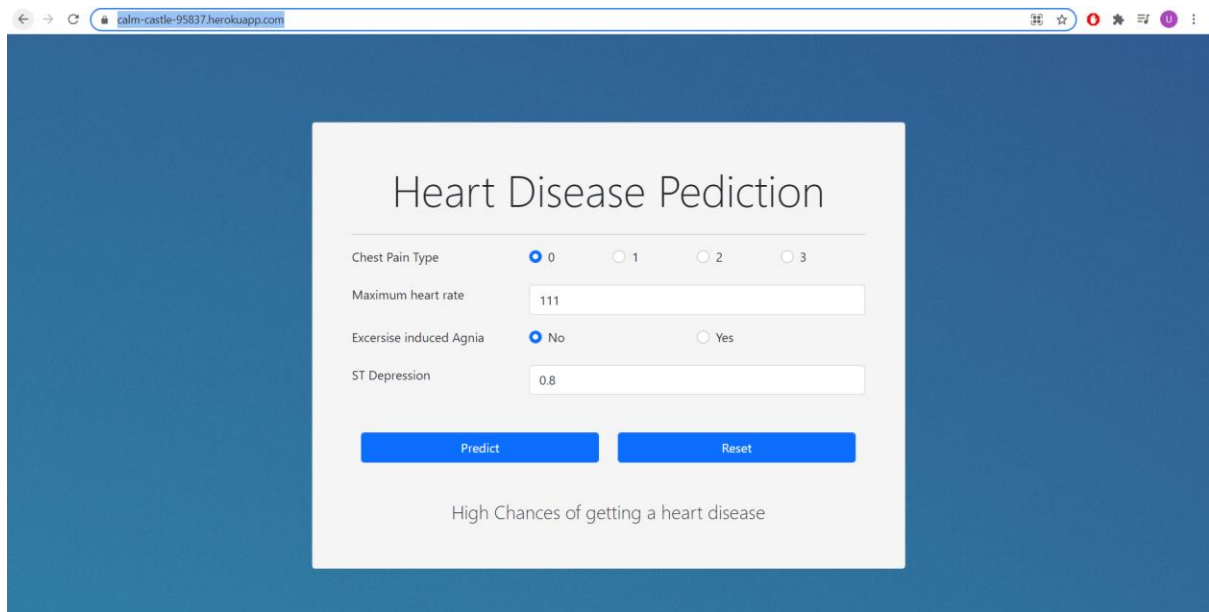
Deploying to Heroku

```
remote: -----> Compressing...
remote: Done: 127.7M
remote: -----> Launching...
remote: Released v3
remote: https://calm-castle-95837.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/calm-castle-95837.git
* [new branch] master -> master
```

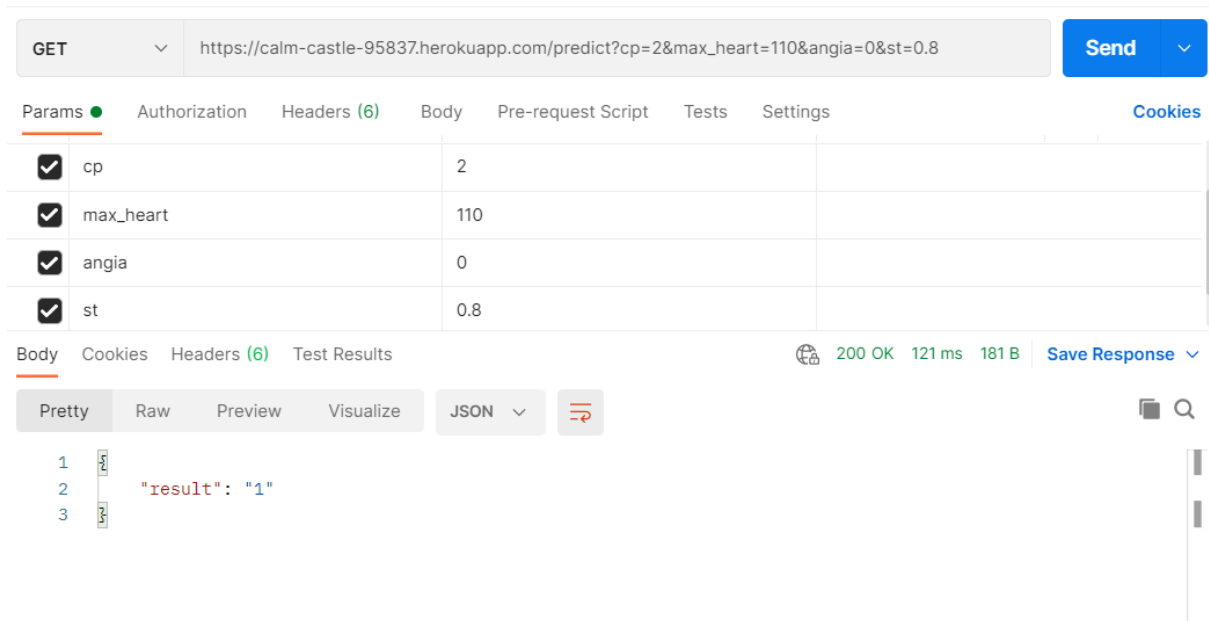
Successfully Deployed



Successfully deployed on URL



Working



API requests on the webapp working as well

Website URL

<https://calm-castle-95837.herokuapp.com/>

API endpoint: /predict

API parameters

- cp – Chest Pain Type (0,1,2,)
- max_heart – Max heart Rate
- Angia – Patient has angia or no (0,1)
- st – Stress induced depression(<1)

