



# Info Panel Option

Christian Minchala



# Info Panel Option Description

Info Panel option project is about getting information of the ip or domain the user wants such as basic ip information, location, and whois .

Number of HTML Pages - 4 pages

HTTP Method For the following pages/functions:

CURL- GET

IP info- POST/GET

Map- POST/GET

WHOIS- POST/GET

Logs - None



# Libraries/ Modules & Lines of code

Language Used: Python HTML, CSS, & Javascript(<1%)

Libraries Used: Flask , Flask- SQLAlchemy, Whoisapi library,  
Json,Requests, datetime

Number of Lines of code: Less than 100 per HTML page  
except for map.html which as about 110 lines and app.py its  
about 135 lines

API Used:

Ip-api.com

Google Maps API

WhoisApi



# State it's in and Challenges

What Works: IP Info, Maps, Whois and CURL

What needs work: transferring the IP to other pages without entering it again

Challenges /What doesn't work well: Logs only query the ip address

- Getting Google Maps to work using python Ended up using JS with Jinjatext

- Getting SQLALchemy to work databases files wouldn't make columns

- Program was not recognizing Css location ended up putting the CSS in the same file as html

- Whois JSON isn't loading in probably



# Sources

W3Schools

Codecademy

Google Maps Documentation



DEMO

# App.py

used codeSnap for screenshots

```
1 from flask import Flask, render_template, url_for, request, redirect, jsonify
2 from flask_sqlalchemy import SQLAlchemy
3 from datetime import datetime
4 from requests import get
5 import json
6 import requests
7 from whoisapi import *
8
9 app = Flask(__name__)
10 app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///ipdata.db'
11 app.config['SQLALCHEMY_TRACK_MODIFICATIONS'] = False
12 db = SQLAlchemy(app)
13
14 class IPS(db.Model):
15     id = db.Column(db.Integer, primary_key = True) ##ID
16     ip = db.Column(db.String(200), nullable = False) ##
17     date_create = db.Column(db.DateTime, default=datetime.utcnow)
18
19     def __repr__(self):
20         return '<IP %r>' % self.ip
21
22 @app.route("/<ip_address>", methods = ["GET","POST"]) ##done
23 def curl(ip_address):
24
25     if request.method == 'GET':
26         urls = "http://ip-api.com/json/"
27
28         urls += ip_address
29         resp = requests.get(urls)
30
31         ipdata = json.loads(resp.text)
32         ips = ipdata
33         if ipdata['status'] == "success":
34             ipdatas = IPS(ip=ip_address)
35             db.session.add(ipdatas)
36             db.session.commit()
37
38         return ipdata
39     else:
40         return redirect('/ipinfo')
```

```
52 @app.errorhandler(404) ##DONE
53 def page_not_found(e):
54     return redirect("/ipinfo")
55
56
57 @app.route('/ipinfo', methods=["GET", "POST"]) #DONE
58 def ipInfo():
59     urls = "http://ip-api.com/json/"
60     iper = {}
61     ipd = ""
62     if request.method == "POST":
63         ipe = request.form.get("ip")
64         if ipe == '':
65             return "No IP Go Back and Enter a IP"
66         ipd = ipe
67
68
69     urls += ipd ##adds the url and ip together
70     resp = requests.get(urls)
71     ipdata = json.loads(resp.text)
72
73     iper = ipdata
74     if iper['status'] == "success":
75         ipdatas = IPS(ip=ipd)
76         db.session.add(ipdatas)
77         db.session.commit()
78
79
80     return render_template("ipInfo.html", show_ip=iper)
81 return render_template('ipInfo.html',show_ip = iper)
82
```

```
85 @app.route('/map/', methods = ['GET', 'POST']) #done
86 def mapInfo():
87     try:
88         lat = 0.0
89         long = 0.0
90         country = ''
91         urls = "http://ip-api.com/json/"
92         if request.method == "POST":
93             iptomap = request.form.get("mapIP")
94             ip = iptomap
95             if ip == '':
96                 return "No IP Go Back and Enter a IP"
97
98             urls += ip
99             resp = requests.get(urls)
100             data = json.loads(resp.text) #####
101
102             lat = data['lat']
103             long = data['lon']
104             country = data['country']
105         except KeyError:
106             return "No Location Found "
107
108         return render_template("map.html",newlat= lat,newlong = long,region = country)
109         return render_template("map.html",newlat= lat,newlong = long,region = country)
110
111 @app.route('/whois/', methods=['GET', 'POST']) #DONE
112 def whois():
113
114     final = {}
115     if request.method == "POST":
116         ipe = request.form.get("whoisip")
117
118         client = Client(api_key='at_T9t1Z67gZSNYozq5y88VT0XuSaU6p')
119         client.parameters.output_format = 'json'
120
121         final = json.loads(client.raw_data(ipe))
122
123         return render_template("whois.html",show_whois = final)
124         return render_template("whois.html",show_whois = final)
125
126
127 @app.route("/log/")
128 def logs():
129     ipdata = IPS.query.order_by(IPS.date_create.desc()).all()
130     return render_template("logs.html",ipdata = ipdata)
131
132
133 if __name__ == "__main__":
134     # db.create_all
135     app.run(debug =True)
136
```

# WhoIS HTML

## CSS same for every page

```
13 body {
14   font-family: Arial, Helvetica, sans-serif;
15 }
16
17
18 header {
19   background-color: #668;
20   padding: 5px;
21   text-align: center;
22   font-size: 35px;
23   color: white;
24 }
25
26 li
27 {
28   float: left;
29
30   border-right: 1px solid #bbb;
31 }
32 ul {
33   list-style-type: none;
34   margin: 0;
35   padding: 0;
36   overflow: hidden;
37   background-color: #333;
38 }
39
40 li:last-child {
41   border-right: none;
42 }
43
44 a
45 {
46   display: block;
47   padding: 8px;
48   background-color: #444444;
49 }
50
51 article {
52   float: left;
53   padding: 20px;
54   width: 100%;
55   background-color: lightblue;
56   height: 1900px;
57 }
58
59 </style>
60 </head>
61 <body>
```

```
65 <header>
66   <h2>IP Info</h2>
67 </header>
68
69 <section>
70
71   <ul>
72     <li><a href="/ipinfo">IP INFO</a></li>
73     <li><a href="/map">Map</a></li>
74     <li><a href="/whois">WhoIs</a></li>
75     <li><a href="/log">LOGS</a></li>
76   </ul>
77
78   <article>
79
80     <div class="whoisform">
81       <h1>WhoIs </h1>
82       <form action="/whois/" method="POST">
83
84         <input type="text" name="whoisip" id="whoisIP">
85         <input type="submit" value="Enter">
86       </form>
87
88     </div>
89     {% for key,value in show_whois.items() %}
90     <p>{{key}} : {{"\n"}} {{value}}</p>
91     {%endfor%}
92   </article>
93 </section>
94
95
96 </body>
97 </html>
98
```



# Map Html

```
1 <div class="mapIP">
2   <h1>MAP </h1>
3   <form action="/map/" method="POST">
4     <input type="text" name="mapIP" id="mapsIP">
5     <input type="submit" value="Enter" method = "POST">
6   </form>
7   <p>Location:{{region}} Latitude:{{newlat}} longitude {{newlong}}</p>
8 </div>
9
10 <p>
11   <div id="map"></div>
12   <script>
13     var map;
14     function initMap() {
15
16       const location = {lat: {{newlat}}, lng: {{newlong}}}
17       map = new google.maps.Map(document.getElementById('map'), {
18         center: location,
19         zoom: 8
20       });
21       const marker = new google.maps.Marker(
22         {
23           position:location,
24           map:map
25         });
26
27     }
28   </script>
29   <script src="https://maps.googleapis.com/maps/api/js?key=AizaSyBQcEoZmnpCZIK8C_0FK-ETxSXDxNaD5-M&callback=initMap"
30     async defer></script>
31 </p>
32
33 </article>
34 </section>
```

```
1 #map
2 {
3   height : 700px;
4   width: 75%;
5
6 }
7
```

# IpInfo HTML

```
1 <section>
2
3   <ul>
4     <li><a href="/ipinfo">IP INFO</a></li>
5     <li><a href="/map/">Map</a></li>
6     <li><a href="/whois/">WhoIs</a></li>
7     <li><a href="/log/">Log</a></li>
8   </ul>
9
10
11  <article>
12
13    <div class="form">
14      <h1>Enter a IP address</h1>
15      <form action="/ipinfo" method="POST">
16        <input type="text" name="ip" id="ipAddress">
17        <input type="submit" value="submit">
18      </form>
19    </div>
20    {% for key,value in show_ip.items() %}
21    <p>{{key}} : {{value}}</p>
22    {%endfor%}
23  </article>
24 </section>
25
26
27
28 </body>
29 </html>
```



# logs

```
1 <header>
2   <h2>IP Info</h2>
3 </header>
4
5 <section>
6   <nav>
7     <ul>
8       <li><a href="/ipinfo">IP INFO</a></li>
9       <li><a href="/map">Map</a></li>
10      <li><a href="/whois">WhoIs</a></li>
11      <li><a href="/log/">LOGS</a></li>
12    </ul>
13  </nav>
14
15  <article>
16
17    <div class="Log">
18      <h1>Logs </h1>
19
20    </div>
21
22    {% for task in ipdata %}
23    <p>{{task.id}} : {{task.ip}}</p>
24    {%endfor%}
25
26  </article>
27 </section>
28
29
30 </body>
31 </html>
32
33
```