Cheat Sheet: Web App Deployment Using Flask

Estimated time needed: 5 minutes

<table>
<tr><th>Package/Method</th><th>Description</th><th>Code Example</th></tr>
<tr><td><b>Flask</b></td><td>Used to instantiate an object of the Flask class named app.</td><td><pre>
from flask import Flask
app = Flask(name)
</pre></td></tr>
<tr><td><b>@app.route decorator</b></td><td>A decorator in Flask used to map URLs to specific functions in a Flask application.</td><td><pre>
@app.route('/')
def hello_world():
    return "My first Flask application in action!"
</pre></td></tr>
<tr><td><b>200 OK status</b></td><td>Flask servers automatically return a 200 OK status when you return from the @app.route method. 200 is also returned by default when you use the jsonify() method to respond to a request. A successful response with a status code of 200 will be sent back when the given code executes.</td><td><pre>
@app.route('/')
def hello_world():
    return ("My first Flask application in action!", 200)
</pre></td></tr>
<tr><td><b>Error 404</b></td><td><b>400</b> indicates an invalid request. This status could imply the parameters are missing or improper or the request is invalid in another way.
<b>401</b> indicates the credentials are missing or invalid.
<b>403</b> implies that the client credentials are not sufficient to fulfill the request.
<b>404</b> If the server is unable to find the resource, it returns a 404 status.
<b>405</b> indicates that the requested operation is not supported.</td><td><pre>
@app.route('/')
def search_response():
    query = request.args.get("q")
    if not query:
        return {"error_message": "Input parameter missing"}, 422
    # fetch the resource from the database
    resource = fetch_from_database(query)
    if resource:
        return {"message": resource}
    else:
        return {"error_message": "Resource not found"}, 404
</pre></td></tr>
<tr><td><b>Error 500</b></td><td>500 is used when there is an error on the server.</td><td><pre>
@app.errorhandler(500)
def server_error(error):
    return {"message": "Something went wrong on the server"}, 500
</pre></td></tr>
</table>

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