Cheatsheet: Web App Deployment using Flask

Estimated time needed: 5 minutes

Package/Method	Description	Code Example

@app decorator	An app decorator is a Python tool that allows programmers to modify the behavior or function of a class. App decorators take paths as an argument.	`from flask import Flask`
		
		`app = Flask(__name__)`

@app.route decorator	A decorator in Flask used to map URLs to specific functions in a Flask application.	`@app.route('/')`
		`def hello_world():`
		`  return "<b>My first Flask application in action!</b>"`

200 OK status	Flask servers automatically return a 200 OK status when you	`@app.route('/')` `def hello_world():`

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	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.	`return ("<b>My first Flask application in action!", 200)`

Error 404	**400** indicates an invalid request. This status could imply the parameters are missing or improper or the request is invalid in another way.	`@app.route('/')`
		`def search_response():`
		`query = request.args.get("q")`
		`if not query:`
		`return {"error_message": "Input parameter missing"}, 422`

	401 indicates the credentials	`# fetch the resource from the database`

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	are missing or invalid.
	
	403 implies that the client credentials are not sufficient to fulfill the request. If the server is unable to find the resource, it returns a 404 status.
	
	405 indicates that the requested operation is not supported.
		`resource = fetch_from_database(query)`
		`if resource:`
		`return {"message": resource}`
		`else:`
		`return {"error_message": "Resource not found"}, 404`

Error 500	500 is used when there is an error on the server.	`@ app.errorhandler(500)`
		`def server_error(error):`
		`return {"message": "Something went wrong on the server"}, 500`

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Changelog

Date	Version	Changed by	Change Description
2023-07-10	0.1	Andrew Pfeiffer	Initial version created