## **IMPLEMENTING WEB APPLICATION**

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Project Name	CONTAINMENT ZONE ALERTING APPLICATION
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## **CREATING API IN FLASK**

from flask import Flask, request, jsonify

app = Flask(\_\_\_name\_)

@app.route('/') def
hello\_world():
 return 'This is my first API call!'

@app.route('/post', methods=["POST"]) def
testpost():

```
input_json = request.get_json(force=True)
dictToReturn = {'text':input_json['text']}
return jsonify(dictToReturn)
```

### ALTER:

import os import time import datetime import requests import json import flask import boto3 import psycopg2 from flask import request

```
app = flask.Flask(___name_)
app.config["DEBUG"] = True
db_cred = os.environ['DB_CRED']
```

def connectToDb(): conn =
 psycopg2.connect(db\_cred) cur =
 conn.cursor() return conn, cur

def closeDbConnection(conn, cur):
 cur.close() conn.close()

#This function will be used to execute a query and return the result def db\_query(query): conn, cur = connectToDb() cur.execute(query) res = cur.fetchall() closeDbConnection(conn, cur) return res

#This function will be used to insert a row or rows into the database def db\_insert(query, values):

#### # Why use an API?

- \* \*\*Decoupling\*\*: By using an API other components are only dependent on the API, not the internals of the component, which means you can make changes to the internals without breaking the dependents.
- \* \*\*Language Independence\*\*: An API can be called from any programming language.
- \* \*\*Isolation\*\*: By using an API, the components using the API are isolated from each other. One component can be replaced without affecting any other component that uses the API.

# # What is Flask?

Flask is a microframework for Python based on Werkzeug, Jinja 2 and good intentions.

![flask](/images/flask.png)

# Why use Flask?

- \* \*\*Light\*\*: Flask is one of the lightest frameworks available.
- \* \*\*Easy to use\*\*: Flask is easy to use and it's well documented.
- \* \*\*Flexible\*\*