IMPLEMENTING WEB APPLICATION

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Project Name	CONTAINMENT ZONE ALERTING APPLICATION
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CREATING API IN FLASK

```
app = Flask(name ) _
@app.route('/') def
hello_world():
  return 'This is my first API call!'
@app.route('/post', methods=["POST"]) def
```

testpost():

from flask import Flask, request, jsonify

```
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):

```
conn, cur = connectToDb()
cur.execute(query,
values) conn.commit()
close
```

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