IMPLEMENTING WEB APPLICATION

CREATING API IN FLASK

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ProjectName	CONTAINMENT ZONE ALERTING APPLICATION

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):
   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.

