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IMPLEMENTING WEB APPLICATION

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 psycpg2
```

```
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

*** *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.

(/images/flask.png)

Why use Flask?

Light

*** Easy to use***

*** Flexible***