

FinalProjectDatabase.cpp

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1import json
2from bson import json.util
3from pymongo import MongoClient
4import bottle
5from bottle import route, run, request, abort
6
7connection = MongoClient('localhost', 27017)
8db = connection['myDB']
9collection = db['myCollection']
10
11app = Bottle()
12
13#Add Document to Database
14def insert_document(document):
15    try:
16        result = collection.save(document)
17    except ValidationError as ve:
18        abort(400, str(ve))
19    return result
20
21def main():
22    myDocument = {"keyName": "v": "test value data"}
23
24    print insert_document(myDocument)
25
26main()
27connection = MongoClient('localhost', 27017)
28db = connection['city']
29collection = db['Mileston']
30def Read():
31    try:
32        result = db.research.find({"business_name"})
33    except ValidationError as ve:
34        abort(400, str(ve))
35    return result
36def
37    readDocument = {"business_name"}
38    print readDocument
39Read()
40
41#Update Document to Database
42def updateDocument():
43    try:
44        updateMyDocument = collection.update(document)
45    except ValidationError as ve:
46        abort(400, str(ve))
47    return updateMyDocument
48def Update():
49    myDocument = {"keyName": "Test Data"}
50    print updateDocument()
51
52#Delete Document Database
53def deleteDocument():
54    try:
55        DeleteMyDocument = db.collection.deleteOne()
56    except ValidationError as ve:
57        abort(400, str(ve))
```

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```
58 return DeleteMyDocument
59def DeleteDoc():
60 print deleteDocument()
61
62#Perform RESTful GET Functionality
63@route('/currentTime', method='GET')
64 def get_currentTime():
65 dateString=datetime.datetime.now().strftime("%Y-%m-%d")
66 timeString=datetime.datetime.now().strftime("%H:%M:%S")
67 string="{\"date\":\""+dateString+",\"time\":\""+timeString+"}"
68 return json.loads(json.dumps(string, indent=4, default=json_util.default))
69@app.route('/http://localhost/hello?name="world"/')
70def hello():
71 return "Hello World!"
72 run(host='localhost', port=8080)
73
74#Perform RESTful Post Functionality
75@post('/http://localhost/strings/', method='POST')
76def Hello2():
77 string1 = 'first: "hello"'
78 string2 = 'second: "world"'
79 return {string1, string2}
80 run(host='local', port=8080)
81
```