

PYTHON BACKEND FEJLESZTÉS

6. forduló



A kategória támogatója: Cambridge Mobile
Telematics (TrueMotion)

RENDELKEZÉSRE ÁLLÓ IDŐ:

25:00

Ismertető a feladathoz

Threading, Error handling

Felhasznált idő: 01:47/25:00

Elért pontszám: 0/16

1. feladat 0/8 pont

What is the maximum number of threads used in this example?

```
def do_nothing():  
    time.sleep(5)  
with ThreadPoolExecutor(max_workers=20) as executor:  
    for i in range(100):  
        executor.submit(do_nothing)
```

Válasz

- ☐ 1
- ☐ 2
- ☐ 20
- ☒ 21

☐ 22

☐ 100

Magyarázat

One main thread and at maximum 20 other threads created by the main thread.

2. feladat 0/8 pont

Find and fix the errors in the code below.

```
import sqlite3
class NotFoundError(Exception):
    pass
class NotAuthorizedError(Exception):
    pass
def blog_lst_to_json(item):
    return {
        'id': item[0],
        'published': item[1],
        'title': item[2],
        'content': item[3],
        'public': bool(item[4])
    }
def fetch_blog(id: str):
    try:
        # connect to the database
        con = sqlite3.connect('application.db')
        cur = con.cursor()
        # execute the query and fetch the data
        cur.execute(f"SELECT * FROM blogs where id=?", [id])
        result = cur.fetchone()
        # return the result or raise an error
        if result is None:
            raise NotFoundError(f'Unable to find blog with id {id}.')
        data = blog_lst_to_json(result)
        if not data['public']:
            raise NotAuthorizedError(f'Access denied to blog with id {id}.')
        # close the connection
        con.close()
        return data
    except sqlite3.OperationalError as e:
        print(e)
        raise NotFoundError(f'Unable to find blog with id {id}.')
    except Exception:
        return {}
```

Válaszok



```
def fetch_blog(id: str):
    data = blog_lst_to_json(result)
    if not data['public']:
        raise NotAuthorizedError(f'You are not allowed to access blog with id {id}.')

-
-     # close the connection
-     con.close()
-
+
    return data
except sqlite3.OperationalError as e:
    print(e)
    raise NotFoundError(f'Unable to find blog with id {id}.')
except Exception:
    return {}

-
+ finally:
+     # close the connection
+     con.close()
```

(Answer A)



```
def fetch_blog(id: str):
    data = blog_lst_to_json(result)
    if not data['public']:
        raise NotAuthorizedError(f'You are not allowed to access blog with id {id}.')

-
-     # close the connection
-     con.close()
-
+
    return data
except sqlite3.OperationalError as e:
    print(e)
    raise NotFoundError(f'Unable to find blog with id {id}.')
- except Exception:
-     return {}
-
+ finally:
+     # close the connection
+     con.close()
```

(Answer B)



```
def fetch_blog(id: str):
    try:
        # connect to the database
-        con = sqlite3.connect('application.db')
-        cur = con.cursor()
```

```

-
-     # execute the query and fetch the data
-     cur.execute("SELECT * FROM blogs where id=?", [id])
-     result = cur.fetchone()
-
-     # return the result or raise an error
-     if result is None:
-         raise NotFoundError(f'Unable to find blog with id {id}.')
-
-     data = blog_lst_to_json(result)
-     if not data['public']:
-         raise NotAuthorizedError(f'You are not allowed to access blog with id {id}.')
-
-     # close the connection
-     con.close()
-
-     return data
+ with sqlite3.connect('application.db') as con:
+     cur = con.cursor()
+
+     # execute the query and fetch the data
+     cur.execute("SELECT * FROM blogs where id=?", [id])
+     result = cur.fetchone()
+
+     # return the result or raise an error
+     if result is None:
+         raise NotFoundError(f'Unable to find blog with id {id}.')
+
+     data = blog_lst_to_json(result)
+     if not data['public']:
+         raise NotAuthorizedError(f'You are not allowed to access blog with id {id}.')
+
+     return data
except sqlite3.OperationalError as e:
    print(e)
    raise NotFoundError(f'Unable to find blog with id {id}.')
- except Exception:
-     return {}
-
+ finally:
+     # close the connection
+     con.close()

```

(Answer C)



```

def fetch_blog(id: str):
    try:
        # connect to the database
        con = sqlite3.connect('application.db')
        cur = con.cursor()

        # execute the query and fetch the data

```

```
- cur.execute("SELECT * FROM blogs where id=?", [id])
- result = cur.fetchone()
-
- # return the result or raise an error
- if result is None:
-     raise NotFoundError(f'Unable to find blog with id {id}.')
-
- data = blog_lst_to_json(result)
- if not data['public']:
-     raise NotAuthorizedError(f'You are not allowed to access blog with id {id}.')
```

(Answer D)

Magyarázat

Please be aware of the + and - notations!

A: A hides the exception

D: *NotFoundError* is hidden because of the global exception handler

Update (2021.12.07.): Answer C is considered to be correct, as well: variable "con" **will be defined** and multiple close() method calls is nop in case of sqlite3 driver. The code will run without problem.

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