FastAPI logging

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Apr 18 · 2 min read ★

Here is how I setup my python logging for a fastAPI project.

I have the following fastAPI file architecture:

```
main.py
logging.conf
uicheckapp/
--db.py
--services.py
...
```

First I create a *logging.conf* file at the root of the project.

logging.conf

This file configures the loggers. I created the *root* and *uicheckapp* loggers. The *root* logger is a special logger. It is the logger that will be used if no other is found.

The *uicheckapp* logger **has the same name** as the package in which I have all my code I want to log from. This is very important, because a logger is selected by module name.

Main.py

At the beginning of the file I set the loggers by loading the “logging.conf” file. This needs to be done once before any “logging.getLogger(…)” calls. This setup can be done in an external dependency that is imported.

Services.py

Here I get the *uicheckapp* logger because services.py is in the uicheckapp folder. This is the logger I want to use for most of my application

your logging should work at this point.

Middleware : Logging every request

I also made a middleware that logs the time every request takes.

I generate a unique ID for each request so I can trace which logs come from the same requests.

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Links

Here are useful links to setup logging

List of all the LogRecord attributes (variables you can put in the log formatter):

logging - Logging facility for Python - Python 3.8.2 documentation

Source code: Lib/logging/__init__.py This module defines functions and classes which implement a flexible event logging…

docs.python.org

Good python logging tutorial:

https://docs.python.org/3/howto/logging.html