

# Logging with Django

Fun with Examples

```
import logging
logger = logging.getLogger('springboard')
logger.info('Name: {}'.format('Indrajit'))
```



### Logging components

- Loggers
  - Interface for logging from code
- Handlers
  - Route the logs to the right destination
- Filters
  - Fine grained controls. Allows skipping/modifying of message before logging
- Formatters
  - Specify formatting and metadata on each log record



### Logging Levels

- DEBUG: Low level system information for debugging purposes
  - logger.debug()
- INFO: General system information
  - logger.info()
- WARNING: Information describing a minor problem that has occurred.
  - logger.warning()
- ERROR: Information describing a major problem that has occurred.
  - logger.error()
  - logger.exception(): Creates an ERROR level logging message wrapping the current exception stack frame.
- CRITICAL: Information describing a critical problem that has occurred.
  - logger.critical()



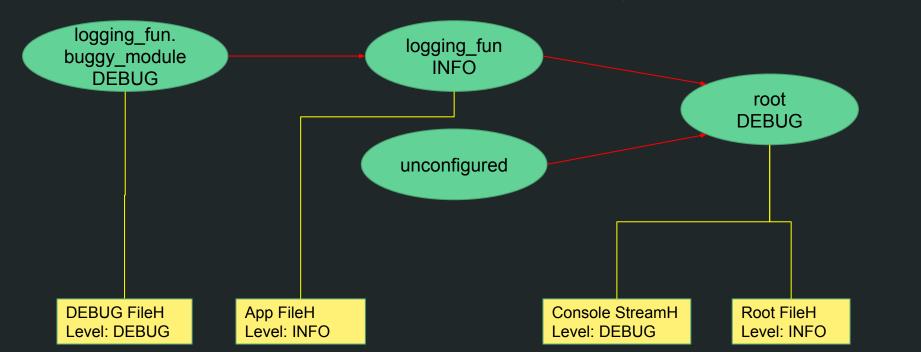
#### Handlers

- NullHandler absolutely nothing
- StreamHandler sys.stdout, sys.stderr
- FileHandler file
- RotatingFileHandler file (rollover as file.1, file.2)
- TimedRotatingFileHandler file (rollover after a specified time-period)
- AdminEmailHandler sends an email to the site admins for each log



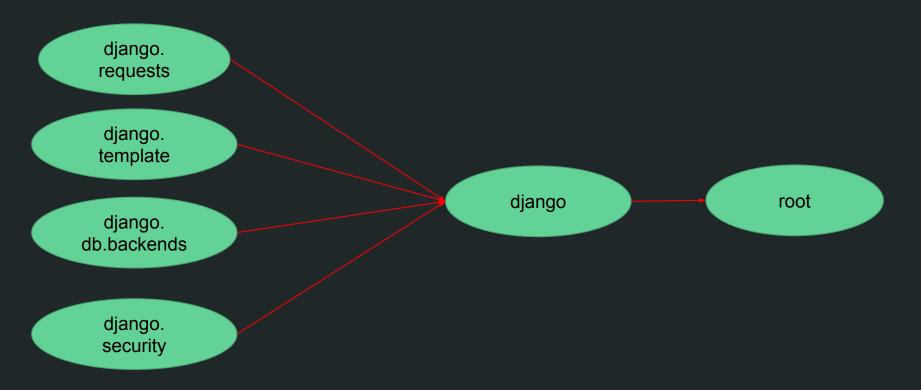
## Logging Architecture

- 1. Find the right Logger
- 2. Check log level and skip/continue
- 3. Look for handlers
  - . For each handler, check level and log/skip
- 5. Propagate?





## Django Logging





#### Formatters

- %(asctime)s
- %(levelname)s
- %(lineno)d
- %(module)s
- %(process)d
- %(thread)d
- django-request-id

https://docs.python.org/3/library/logging.html#logrecord-attributes



#### Filters

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- %(levelname)s
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## Thank you!

Q&A