

```
import os
```

```
import uuid
```

```
from loguru import logger
```

```
def initialize_logger(log_folder: str = "logs"):
```

```
    AGENT_WORKSPACE = "agent_workspace"
```

```
    # Check if WORKSPACE_DIR is set, if not, set it to AGENT_WORKSPACE
```

```
    if "WORKSPACE_DIR" not in os.environ:
```

```
        os.environ["WORKSPACE_DIR"] = AGENT_WORKSPACE
```

```
    # Create a folder within the agent_workspace
```

```
    log_folder_path = os.path.join(
```

```
        os.getenv("WORKSPACE_DIR"), log_folder
```

```
    )
```

```
    if not os.path.exists(log_folder_path):
```

```
        os.makedirs(log_folder_path)
```

```
    # Generate a unique identifier for the log file
```

```
    uuid_for_log = str(uuid.uuid4())
```

```
    log_file_path = os.path.join(
```

```
        log_folder_path, f"{log_folder}_{uuid_for_log}.log"
```

```
    )
```

```
logger.add(  
    log_file_path,  
    level="INFO",  
    colorize=True,  
    backtrace=True,  
    diagnose=True,  
    enqueue=True,  
    retention="10 days",  
    # compression="zip",  
)  
return logger
```