

GoDoc



Package hashlog

```
import "goInAction2/assignment/packages/hashlog"
```

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Overview ▾

Implements funtions to initialize and add data to the loggers implemented by the log package, with additional checks and error handling against an SHA256 checksum to detect file tampering. HashLogs are concurrency-safe by virtue of implement log.Loggers, which are themselves concurrency safe. Initialized in `init()`, and updated throughout the application in real time.

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```
type HashLog
func Init(logname string) *HashLog
func (hl *HashLog) AddLog(message string) error
```

Package files

[hashlog.go](#)

type HashLog

```
type HashLog struct {
    Name          string    // Name of logger, determinds log and
checksum file directories.
    L             *log.Logger // Embeds a *log.Logger
    LogPath       string    // File directory of associated .txt file.
Relative filepaths only.
    ChecksumPath string    // File directory of associated checksum.
```

```
Relative filepaths only.  
}
```

func Init

```
func Init(logname string) *HashLog
```

Init initializes a HashLog's embedded log.Logger for writing to its associated log file with checking at its associated checksum file.

func (*HashLog) AddLog

```
func (hl *HashLog) AddLog(message string) error
```

AddtoLog checks a log file's SHA256 checksum to ensure no tampering has occurred, before writing a message to the log and saving its updated hash value.

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