

# Module 8

# BUILDING CLI TOOLS AND APPLICATIONS



# COMMAND-LINE BASICS

- **Parsing Flags:** Use the `flag` package for command-line arguments.
- **Handling Subcommands:** Use libraries like `cobra` or `urfave/cli` for structured CLI apps.





# FILE I/O

- **Reading/Writing Files:** Use `os`, `io`, `bufio` for efficient file handling.
- **Error Handling & Resource Management:** Always close files (`defer file.Close()`).

# Logging

- **Standard Logging:** Use Go's built-in log package.
- **Third-Party Logging:** logrus, zap offer structured logging & better performance
- **Log Levels:** Debug, Info, Warn, Error, Fatal for better log management.



# **Our final project**

## **(HandsOn)**

# THANK YOU

