CHAPTER 07
Package Cobra

Cobra

Init cobra

```go
var rootCmd = &cobra.Command{
    Use:   "todo",
    Short: "Aplikasi To-Do List sederhana dengan Golang CLI",
}


func Execute() {
    if err := rootCmd.Execute(); err != nil {
        fmt.Println(err)
    }
}
```

Cobra

Init commod

```go
var listCmd = &cobra.Command{
    Use:   "list",
    Short: "show all list task",
    Run: func(cmd *cobra.Command, args []string) {
        service.DisplayTodoList()
    },
}

func init() {
    rootCmd.AddCommand(listCmd)
}
```

Cobra

Init commod with flag

```go
var index int
var updateCmd = &cobra.Command{
    Use:   "update",
    Short: "update status taks",
    Run: func(cmd *cobra.Command, args []string) {

        if index <= 0 {
            utils.ErrorMessage("Error: --index must be greater than 0")
            return
        }

        if status == "" {
            fmt.Println("Error: --status is required (new, progress, completed)")
            return
        }

        // validation data
        if !utils.IsValidStatus(status) {
            utils.ErrorMessage("Invalid input, please enter 'new', 'progress', or 'completed'.")
            return
        }

        service.UpdateStatus(index-1, status)
    },
}

func init() {
    updateCmd.Flags().IntVarP(&index, "index", "d", 0, "Task ID to update")
    updateCmd.Flags().StringVarP(&status, "status", "s", "", "Task status (pending, progress, done)")
    rootCmd.AddCommand(updateCmd)
}
```

Contoh response tabel

Contoh response success


```
● lumoshiveacademy@lumoshive:~/project-bootcamp/be-golang-project-app-cli-2$ go run . update --index=1 --status=completed
  Task status updated successfully.
```

Struktur project