Shell-bulitins

EXPLORER

OPEN EDITORS

SHELL-BULITINS

- .github / workflows
  - coverage.yml
  - golangci-lint.yml
  - gotest.yml
- Project2
  - builtins
    - cat_test.go
    - cat.go
    - cd_test.go
    - cd.go
    - echo_test.go
    - echo.go
    - env_test.go
    - env.go
    - existing_file.txt U
    - grep_test.go
    - grep.go
    - ls_test.go
    - ls.go
    - mkdir_test.go
    - mkdir.go
    - pwd_test.go
    - pwd.go
    - rmdir_test.go
    - rmdir.go
    - touch_test.go
    - touch.go
  - README.md
  - go.mod
  - go.sum
  - LICENSE
  - main_test.go

OUTLINE

TIMELINE

GO

main.go

main.go > ...

```go
package main

import (
    "bufio"
    "fmt"
    "io"
    "os"
    "os/exec"
    "os/user"
    "strings"

    "github.com/HO4678/CSCE4600/Project2/builtins"
)

func main() {
    exit := make(chan struct{}, 2) // buffer this so there's no deadlock.
    runLoop(os.Stdin, os.Stdout, os.Stderr, exit)
}

func runLoop(r io.Reader, w, errW io.Writer, exit chan struct{}) {
    var (
        input    string
        err      error
        readLoop = bufio.NewReader(r)
    )
    for {
        select {
        case <-exit:
            _, _ = fmt.Fprintln(w, "exiting gracefully...")
            return
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

zsh - builtins

```
XPC_SERVICE_NAME=application.com.microsoft.VSCode.48207499.48207505
ZDOTDIR=/Users/habibojoye
_CE_CONDA=''
_CE_M=''
__CFBundleIdentifier=com.microsoft.VSCode
__CF_USER_TEXT_ENCODING=0x1F5:0x0:0x0
(base) habibojoye@Habibs-MacBook-Air builtins % go test -cover
Captured output: "hello world\n"
Captured output: "single\n"
Captured output: "\n"
Captured output: "$PATH %% #comment\n"
PASS
coverage: 89.8% of statements
ok      github.com/HO4678/CSCE4600/Project2/builtins    0.181s
(base) habibojoye@Habibs-MacBook-Air builtins %
```

main* Go 1.21.4 0 0 0 Ln 1, Col 1 Tab Size: 4 UTF-8 LF Go Analysis Tools Missing Go Update Available