

File - /Users/chadanlo/go/src/prr-labo3/labo3/task/task.go

```
1 package task
2
3 import (
4     "log"
5     "time"
6 )
7
8 /**
9  * Interface wanted for the Network
10 */
11 type Network interface {
12     EmitEcho(id uint16) bool
13 }
14
15 type Manager interface {
16     GetElected() uint16
17     RunElection()
18 }
19
20 /**
21  * Represents an applicative Task
22 */
23 type Task struct {
24     currentElected uint16
25     shouldRunElection bool
26     debug bool
27     m Manager
28     n Network
29 }
30
31 func (t *Task) Run(manager Manager, network Network) {
32     log.Println("Task : Initialization of the task")
33     t.m = manager
34     t.n = network
35     t.shouldRunElection = true
36     t.debug = true
37
38     if t.debug {
39         log.Println("Task : Running an election")
40     }
41     t.m.RunElection()
42
43     for {
44         if t.debug {
45             log.Println("Task : Who's elected?")
46         }
47
48         t.currentElected = t.m.GetElected()
49
50         if t.debug {
51             log.Println("Task : elected is ", t.currentElected)
52         }
53
54         hasAnswered := t.n.EmitEcho(t.currentElected)
55         if !hasAnswered {
56             if t.debug {
57                 log.Println("Task : no answer :(")
58                 log.Println("Task : Running an election")
59             }
60
61             t.m.RunElection()
62         }
63         time.Sleep(time.Second * 1)
64     }
65 }
```