Gorilla Sessions

memory leak fix

Important Note: If you aren't using gorilla/mux, you need to wrap your handlers with context.ClearHandler as or else you will leak memory! An easy way to do this is to wrap the top-level mux when calling http.ListenAndServe:

http.ListenAndServe(":8080", context.ClearHandler(http.DefaultServeMux))

The ClearHandler function is provided by the gorilla/context package.

```
2
3
4
```

http.HandleFunc("/", setSession)

http.ListenAndServe(":8080", context.ClearHandler(http.DefaultServeMux))

△}

on App Engine

```
package main-
 2
 3
    import (-
    » "net/http"¬
 4
 5
 6
    "github.com/gorilla/context"¬
 7
8
    func init() {-
 9
10
      serveMux := http.NewServeMux() -
11
      serveMux.HandleFunc("/", handleIndex) -
12
13
      http.Handler("/", context.ClearHandler(serveMux))
14
    >> //http.ListenAndServe(":8080", context.ClearHandler(http.DefaultServeMux))-
15
    }¬
16
17
18
    func handleIndex(res http.ResponseWriter, req *http.Request) {-
19
20
```

```
22
23
             mux := http.DefaultServeMux
             mux.HandleFunc("/". index)
24
             mux.HandleFunc("/login", login)
26
             mux.HandleFunc("/logout", logout)
27
             mux.Handle("/assets/imgs/", http.StripPrefix("/assets/imgs", http.FileServer(http.Dir("./assets/imgs"))))
28
             mux.Handle("/favicon.ico", http.NotFoundHandler())
             http.Handle("/", context.ClearHandler(mux))
30
                               Chrome File Edit View History Bookmarks People Window Help
                                       MInbox (3) - tod × ✓ ♣Golang (Go La × ✓ ☐ 43 Gorilla Ses × ✓ 🖃 video descript × ✓ 🗐 Summer Web × ✓
                                                                                                                 https://www.yc.x
                                                                                                                                 Go http - GoDoc X
                                                                                                                                               Hello, World! - ×
                                          localhost:8080
                                                                                                       A PM Hawk
                                     ★ Bookmarks M 🍑
                             bad runtime process port ['']
                             panic: http: multiple registrations for /
                             goroutine 1 [running]:
                             net/http.(*ServeMux).Handle(0xc20803a690, 0x3d8880, 0x1, 0x6b6330, 0xc20800acb0)
                                    /private/var/folders/00/0v42r000h01000cxqpysvccm003chb/T/appengine/go appengine/goroot/src/net/http/server.go:1557 +0x244
                             net/http.Handle(0x3d8880, 0x1, 0x6b6330, 0xc20800acb0)
                                     /private/var/folders/00/0v42r000h01000cxqpysvccm003chb/T/appengine/go appengine/goroot/src/net/http/server.go:1591 +0x52
                             main46537.init·1()
                                    main.go:29 +0x349
                             main46537.init()
                                     extra imports 3.go:7 +0x150
                             main.init()
                                    go_main.go:18 +0x42
                             goroutine 6 [runnable]:
                             text/template/parse.lexText(0xc20806c080, 0x4ac3d8)
                                    /private/var/folders/00/0v42r000h01000cxqpysvccm003chb/T/appengine/go_appengine/goroot/src/text/template/parse/lex.go:228 +0x37b
                             text/template/parse.(*lexer).run(0xc20806c080)
                                    /private/var/folders/00/0v42r000h01000cxqpysvccm003chb/T/appengine/go appengine/goroot/src/text/template/parse/lex.go:198 +0x5d
                             created by text/template/parse.lex
                                    /private/var/folders/00/0v42r000h01000cxqpysvccm003chb/T/appengine/go appengine/goroot/src/text/template/parse/lex.go:191 +0x1ac
```

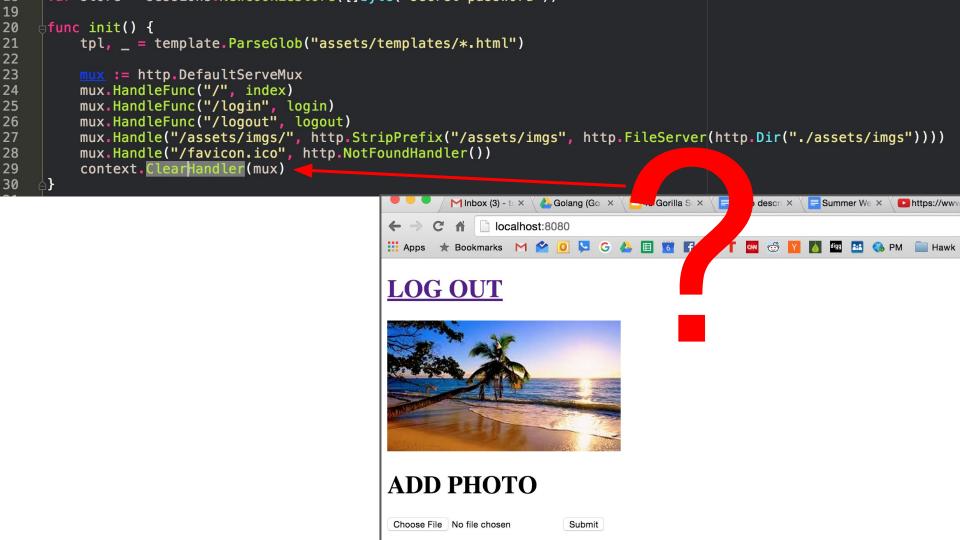
20

21

func init() {

tpl, _ = template.ParseGlob("assets/templates/*.html")

```
135
136
     b// ClearHandler wraps an http.Handler and clears request values at the end
137
     △// of a request lifetime.
     tunc ClearHandler(h http.Handler) http.Handler {
138
          return http.HandlerFunc(func(w http.ResponseWriter, r *http.Request) {
139
140
              defer Clear(r)
141
              h.ServeHTTP(w, r)
142
143
     占}
144
```



```
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139
140
                defer Clear(r)
                h.ServeHTTP(w, r)
141
142
            })
      占}
143
144
                          90

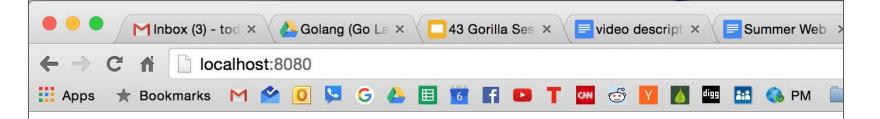
♭// Clear removes all values stored for a given request.

                          92
                          93
                               // This is usually called by a handler wrapper to clean up request
                          94
                               △// variables at the end of a request lifetime. See ClearHandler().

| func Clear(r *http.Request) {
                          95
                          96
                                   mutex.Lock()
                          97
                                   clear(r)
                          98
                                   mutex.Unlock()
                          99
                              台}
                          100
                          101
                               // clear is Clear without the lock.
                          102

| func clear(r *http.Request) {
                          103
                                   delete(data, r)
                          104
                                   delete(datat, r)
                          105
```

```
| func index(res http.ResponseWriter, req *http.Request) {
         defer context.Clear(reg)
         session, _ := store.Get(req, "session")
34
         if session.Values["loggedin"] == "false" || session.Values["loggedin"] == nil {
36
             http.Redirect(res, req, "/login", 302)
38
39
         // upload photo
40
         src, hdr, err := req.FormFile("data")
         if req.Method == "POST" && err == nil {
             uploadPhoto(src, hdr, session)
44
         session.Save(reg, res)
46
         data := getPhotos(session)
48
         // execute template
49
         tpl.ExecuteTemplate(res, "index.html", data)
50
     func logout(res http.ResponseWriter, reg *http.Reguest) {
         defer context.Clear(reg)
         session, _ := store.Get(req, "session")
54
         session.Values["loggedin"] = "false"
         session.Save(req. res)
         http.Redirect(res, reg, "/login", 302)
58
59
60
     func login(res http.ResponseWriter, req *http.Request) {
         defer context.Clear(req)
62
         session, _ := store.Get(req, "session")
         if req.Method == "POST" && req.FormValue("password") == "secret" {
63
64
             session.Values["loggedin"] = "true"
65
             session.Save(reg. res)
66
             http.Redirect(res, req, "/", 302)
67
68
```



LOG OUT



it runs, however...

ADD PHOTO

Choose File No file chosen

Submit



LOG OUT



ADD PHOTO



I can go through the upload motions and the file gets hashed and the correct img tag is used but the file is not put on the server

This is because App Engine, I believe, doesn't allow file uploads
You should use GCS instead

