

# Go net/http Mini Proje

Aşağıda `net/http` paketini kapsayan mini web uygulaması örneği bulunmaktadır.

```
package main

import (
    "encoding/json"
    "fmt"
    "net/http"
    "time"
)

// Middleware (istekleri logla)
func loggingMiddleware(next http.Handler) http.Handler {
    return http.HandlerFunc(func(w http.ResponseWriter, r *http.Request) {
        fmt.Println("İstek:", r.Method, r.URL.Path)
        next.ServeHTTP(w, r)
    })
}

// Ana sayfa
func homeHandler(w http.ResponseWriter, r *http.Request) {
    fmt.Fprintln(w, "Hoş geldin! /form, /json, /setcookie, /getcookie adreslerini dene.")
}

// Form örneği (GET -> form göster, POST -> form işle)
func formHandler(w http.ResponseWriter, r *http.Request) {
    if r.Method == "POST" {
        r.ParseForm()
        name := r.FormValue("name")
        age := r.FormValue("age")
        fmt.Fprintf(w, "Ad: %s, Yaş: %s", name, age)
        return
    }
    fmt.Fprintln(w, `<form method="POST">
    Ad: <input name="name">
    Yaş: <input name="age">
    <input type="submit">
</form>`)
}

// JSON API örneği
func jsonHandler(w http.ResponseWriter, r *http.Request) {
    data := map[string]string{"mesaj": "Merhaba JSON!"}
    w.Header().Set("Content-Type", "application/json")
    json.NewEncoder(w).Encode(data)
}

// Cookie ayarlama
func setCookieHandler(w http.ResponseWriter, r *http.Request) {
    http.SetCookie(w, &http.Cookie{
        Name: "kullanici",
        Value: "Ahmet",
        Path: "/",
    })
    fmt.Fprintln(w, "Cookie ayarlandı!")
}

// Cookie okuma
func getCookieHandler(w http.ResponseWriter, r *http.Request) {
    cookie, err := r.Cookie("kullanici")
    if err != nil {
        http.Error(w, "Cookie bulunamadı", http.StatusNotFound)
        return
    }
    fmt.Fprintf(w, "Cookie değeri: %s", cookie.Value)
}

func main() {
    mux := http.NewServeMux()

    // Route tanımlar
    mux.HandleFunc("/", homeHandler)
```

```

■mux.HandleFunc("/form", formHandler)
■mux.HandleFunc("/json", jsonHandler)
■mux.HandleFunc("/setcookie", setCookieHandler)
■mux.HandleFunc("/getcookie", getCookieHandler)

■// Static dosya servisi (./public klasöründen)
■fs := http.FileServer(http.Dir("./public"))
■mux.Handle("/static/", http.StripPrefix("/static/", fs))

■// Middleware ekle
■loggedMux := loggingMiddleware(mux)

■// Özel ayarlarla server
■srv := &http.Server{
■■Addr:      ":8080",
■■Handler:    loggedMux,
■■ReadTimeout: 5 * time.Second,
■■WriteTimeout: 10 * time.Second,
■}

■fmt.Println("Sunucu http://localhost:8080 üzerinde çalışıyor...")
■srv.ListenAndServe()
}

```