

Desenvolvendo APIs usando middlewares

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**Http Is The Foundation
Of The Web**

Um cliente manda uma request

- `r.Method` – HTTP method (GET, POST, PUT, PATCH, DELETE etc.)
- `r.URL.Path` – Request path (/things/**123**)
- `r.URL.String()` – Full URL
- `r.URL.Query()` – Query parameters (q=something&p=**2**)
- `r.Body` – `io.ReadCloser` of the request body

O servidor retorna uma response

```
type ResponseWriter interface {  
  
    Header() Header  
    Write([]byte) (int, error)  
    WriteHeader(int)  
  
}
```

Middlewares

Between the request and response

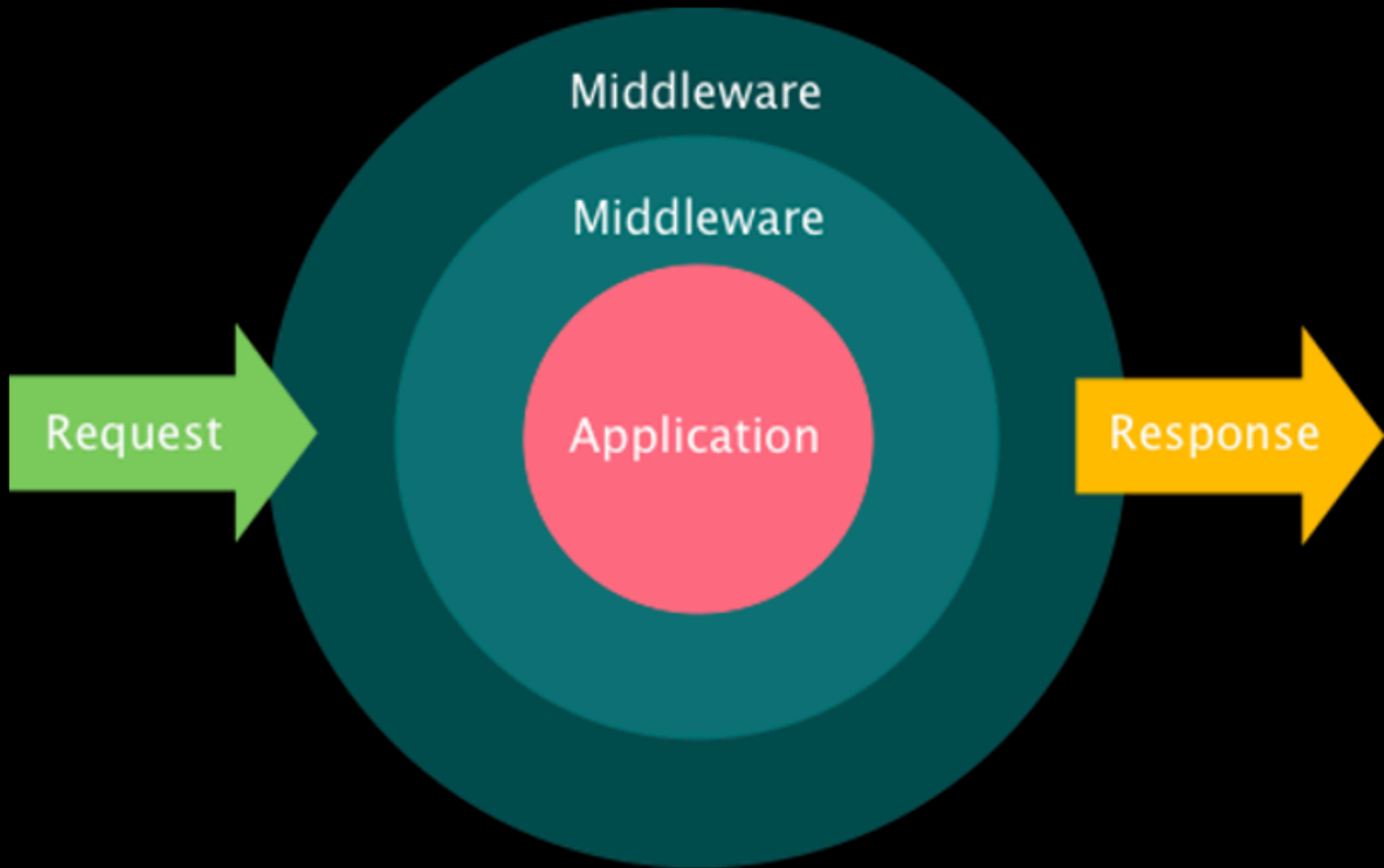
Enrico Zimuel

HTTP middleware is not for your Domain work. The middleware is a path in to, and out of, the core Domain.

Paul M. Jones

Run code before and after handler code

Mat Ryer



Exemplos


```
func middlewareOne(next http.Handler) http.Handler {
    return http.HandlerFunc(func(w http.ResponseWriter, r *http.Request) {
        log.Println("Executing before middlewareOne")
        next.ServeHTTP(w, r)
        log.Println("Executing after middlewareOne")
    })
}
```

```
func middlewareTwo(next http.Handler) http.Handler {
    return http.HandlerFunc(func(w http.ResponseWriter, r *http.Request) {
        log.Println("Executing before middlewareTwo")
        if r.URL.Path != "/" {
            return
        }
        next.ServeHTTP(w, r)
        log.Println("Executing after middlewareTwo")
    })
}
```

```
func final(w http.ResponseWriter, r *http.Request) {
    log.Println("Executing finalHandler")
    w.Write([]byte("OK"))
}
```

```
func main() {  
    finalHandler := http.HandlerFunc(final)  
    http.Handle("/", middlewareOne(middlewareTwo(finalHandler)))  
    http.ListenAndServe(":8000", nil)  
}
```

<https://github.com/justinas/alice>

```
func main() {  
    finalHandler := http.HandlerFunc(final)  
    chain := alice.New(middlewareOne, middlewareTwo).Then(finalHandler)  
    http.ListenAndServe(":8000", chain)  
}
```

```
package main

import (
    "github.com/justinas/alice"
    "net/http"
    "planrockr"
)

func getCurrentSubscription(w http.ResponseWriter, r *http.Request) { ...
}

func main() {
    chain := alice.New(planrockr.Auth,
        planrockr.GetUserByToken).
        Then(http.HandlerFunc(getCurrentSubscription))
    http.ListenAndServe(":8000", chain)
}
```

```
package main

import (
    "github.com/justinas/alice"
    "net/http"
    "planrockr"
)

func processEvent(next http.Handler) http.Handler { ...
}

func main() {
    chain := alice.New(processEvent,
        planrockr.ValidateHookData).
        Then(http.HandlerFunc(planrockr.Enqueue))
    http.ListenAndServe(":8000", chain)
}
```

Links

[https://gist.github.com/eminetto/
e3bab34426ac9a0b83a538a0e421bbc8](https://gist.github.com/eminetto/e3bab34426ac9a0b83a538a0e421bbc8)

Contato

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