Routing Requests

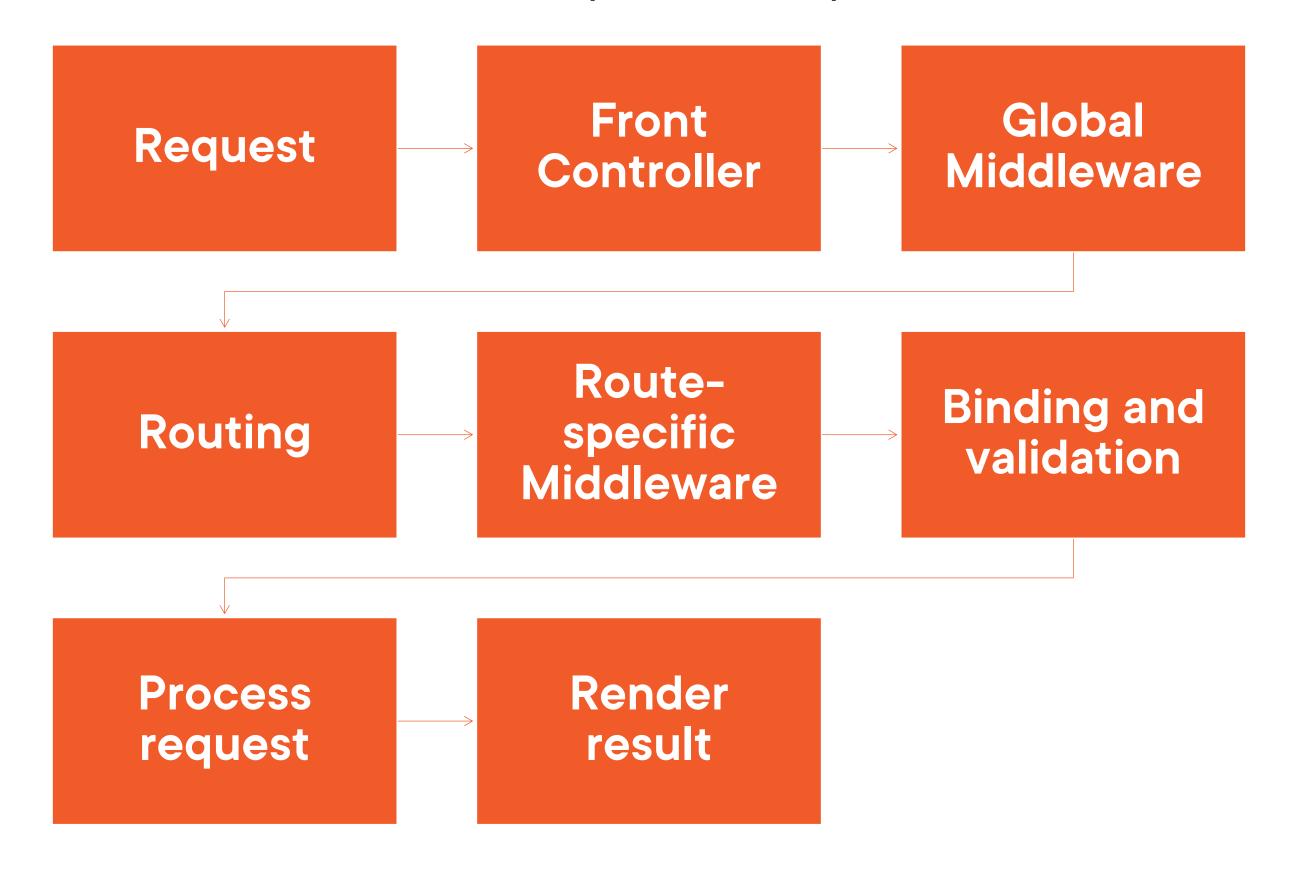


Michael Van Sickle

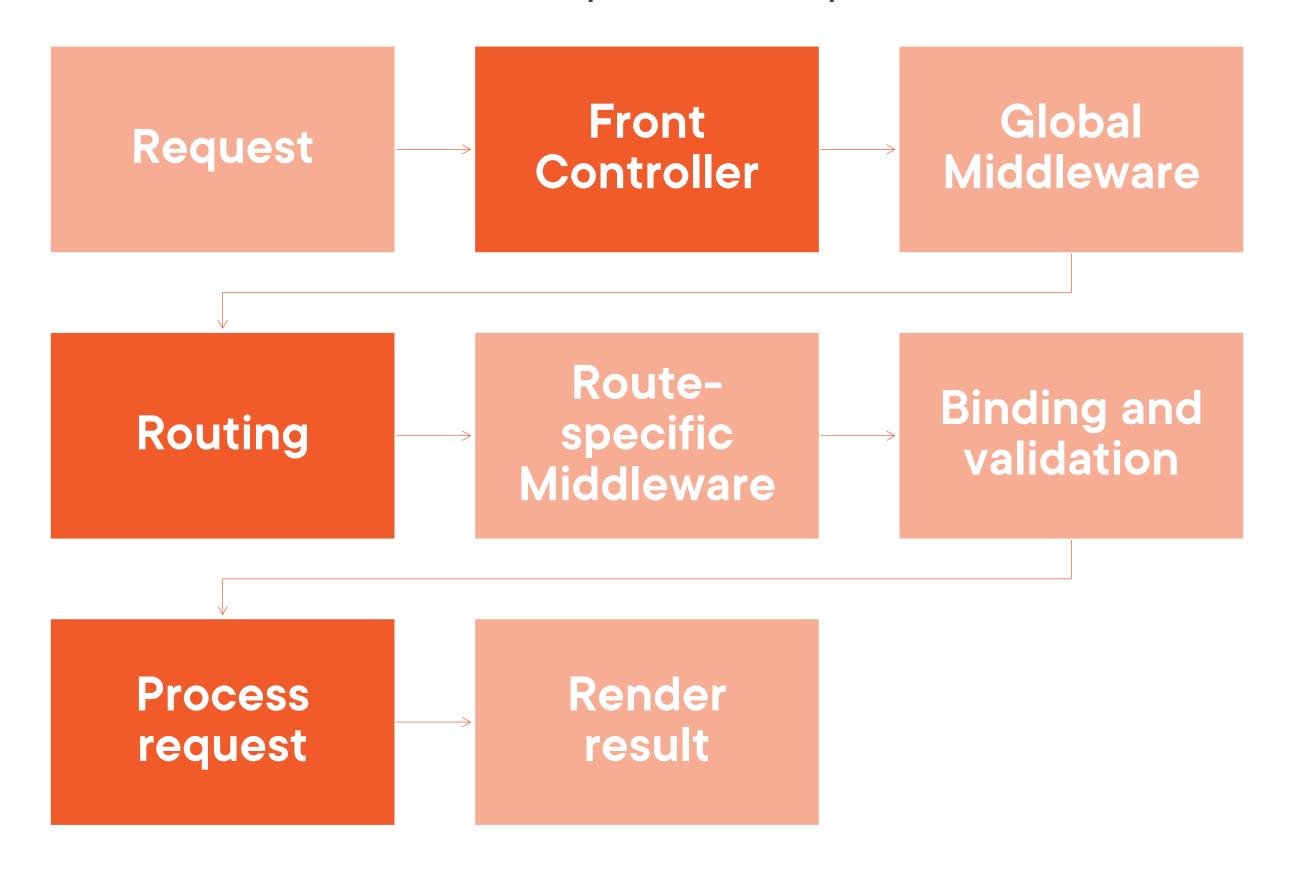
@vansimke



HTTP Request Pipeline



HTTP Request Pipeline





Overview



Static routes

Serving files

HTTP methods

Parameterized routes

Route groups



Static Routes



Serving Single Files



File Servers

HTTP Methods

```
// HTTP/2 message headers
:method = GET
:scheme = https
:path = /users
host = vacationtrack.info
<snip>
```



HTTP Methods

```
// HTTP/2 message headers
:method = GET
:scheme = https
:path = /users
host = vacationtrack.info
<snip>
```



```
router := gin.Default()
router.GET({URL Pattern},
    func(c *gin.Context){
router.POST(...)
router.PUT(...)
router.DELETE(...)
router.PATCH(...)
router.HEAD(...)
router.OPTIONS(...)
router.Handle(httpMethod, ...)
router.Any(...)
```

GET

- **◆** POST
- **◆** PUT
- **DELETE**
- **▼ PATCH**
- **◄** HEAD
- **◆** OPTIONS
- Arbitrary method
- Any HTTP Method

Parameterized Routes

```
// <a href="https://vacationtrack.info/employees/ajane">https://vacationtrack.info/employees/ajane</a>
router.GET("/employees/:username", func(c *gin.Context) {
     username := c.Param("username")
                                                                 // ajane
})
// <a href="https://vacationtrack.info/employees/ajane/timeoff/scheduled">https://vacationtrack.info/employees/ajane/timeoff/scheduled</a>
router.GET("/employees/:username/*rest", func(c *gin.Context) {
     username := c.Param("username")
                                                                // ajane
     rest := c.Param("rest")
                                                                 // timeoff/scheduled
     wholeroute := c.FullPath()
                                                                 // /ajane/timeoff/scheduled
})
```

Route Groups

```
https://vacationtrack.info/admin/users
https://vacationtrack.info/admin/roles
https://vacationtrack.info/admin/policies

router := gin.Default()
g := router.Group("/admin", ...gin.HandlerFunc)
g.GET("/users", ...)
g.GET("/roles", ...)
g.GET("/policies", ...)
```



Summary



Static routes

Serving files

HTTP methods

Parameterized routes

Route groups

