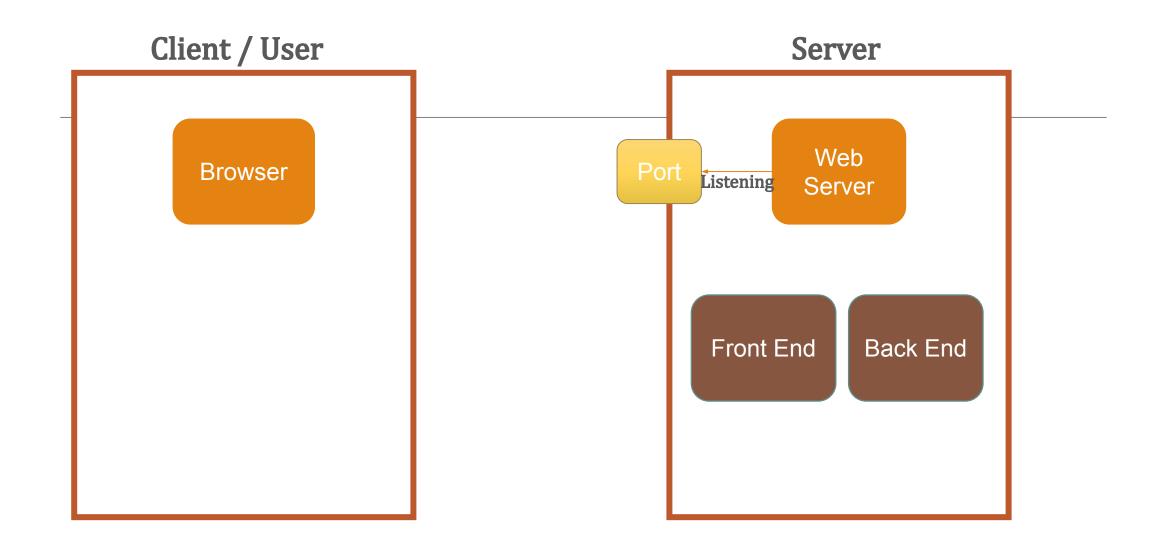
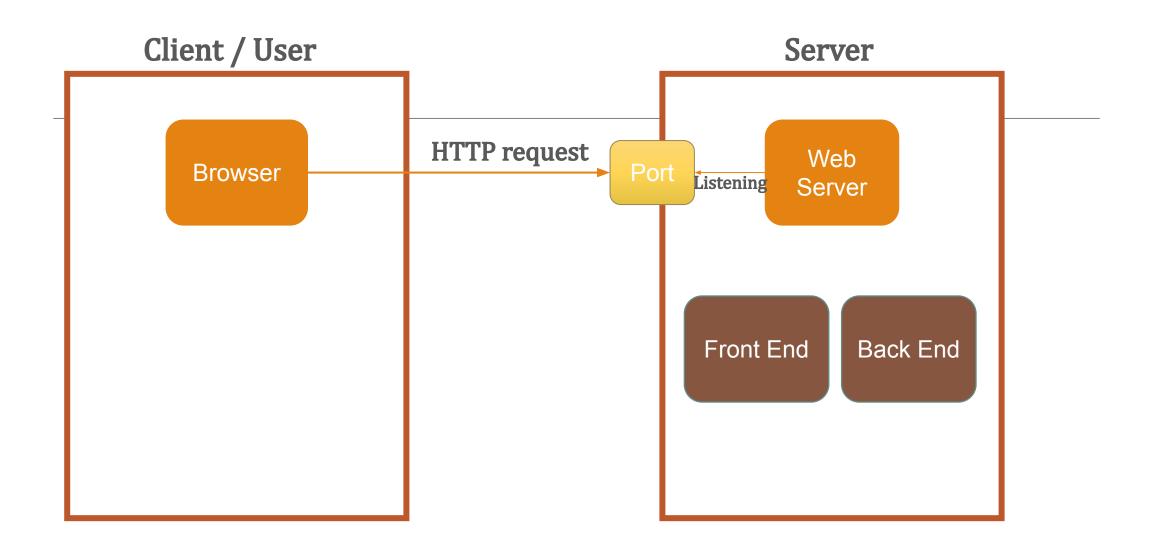
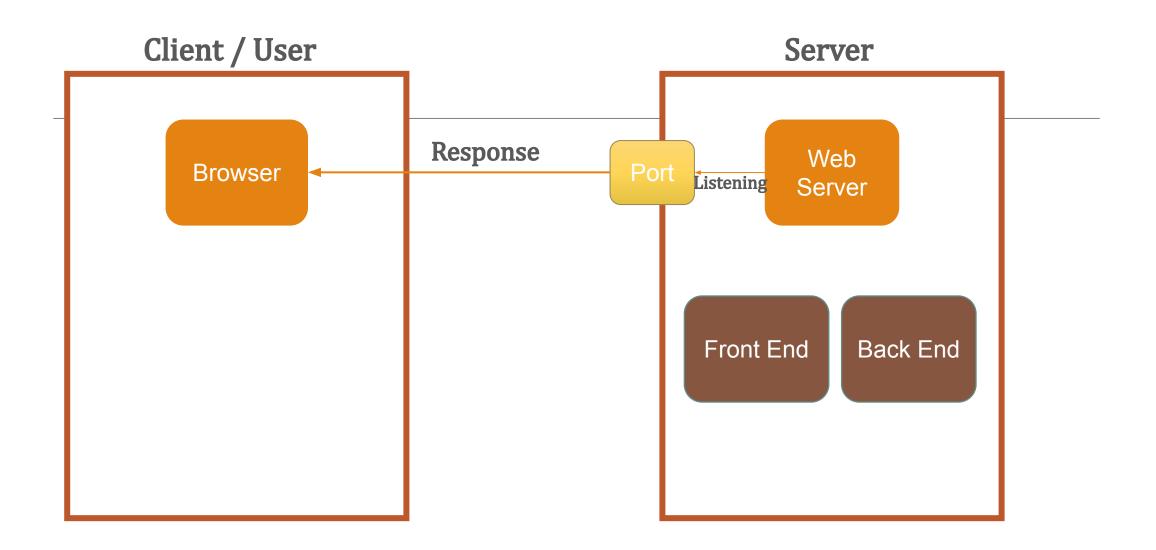
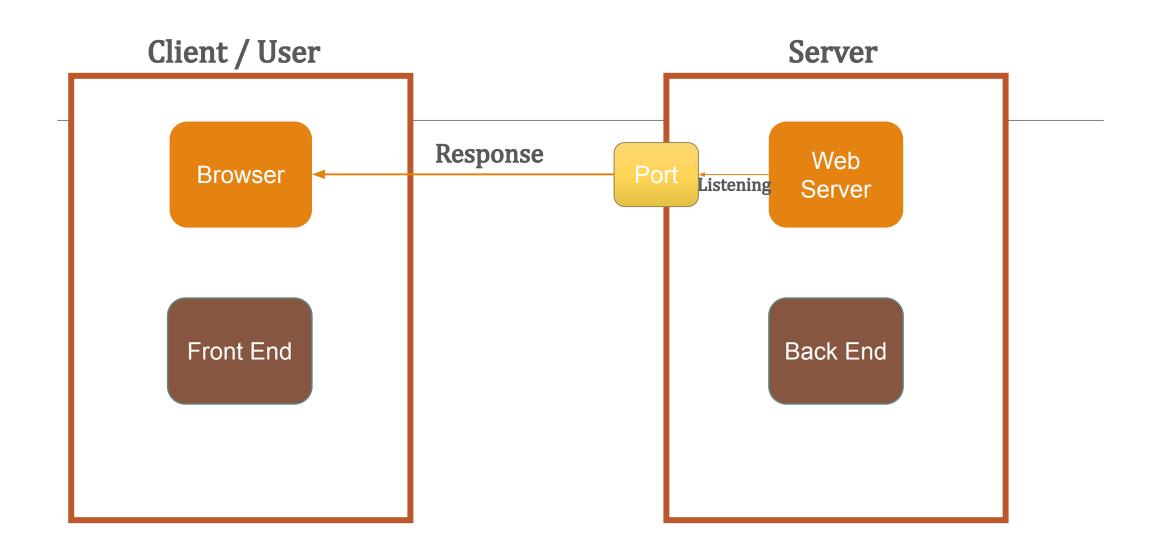
## Lab3

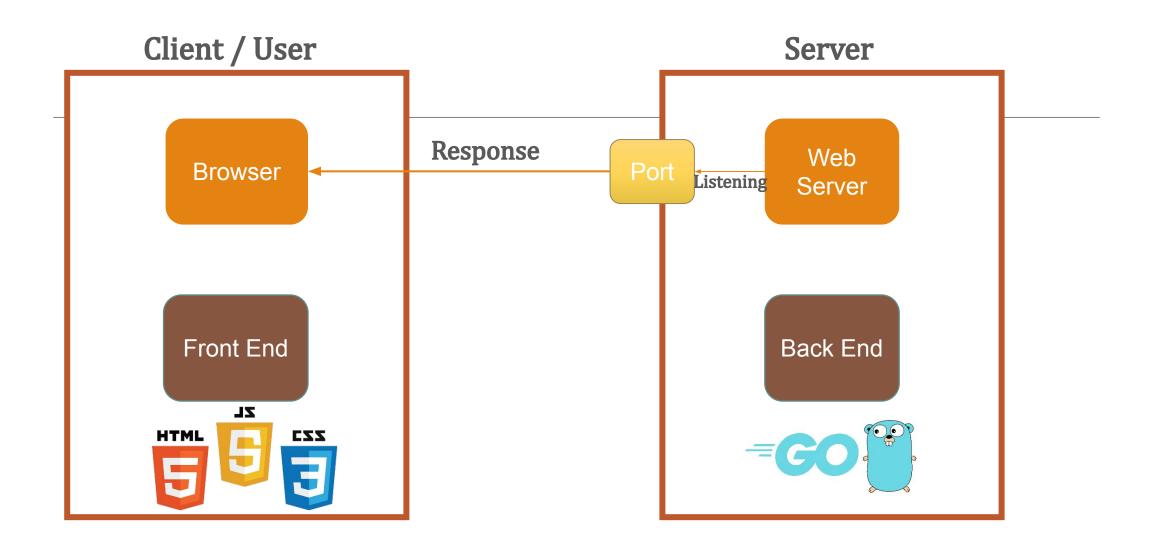
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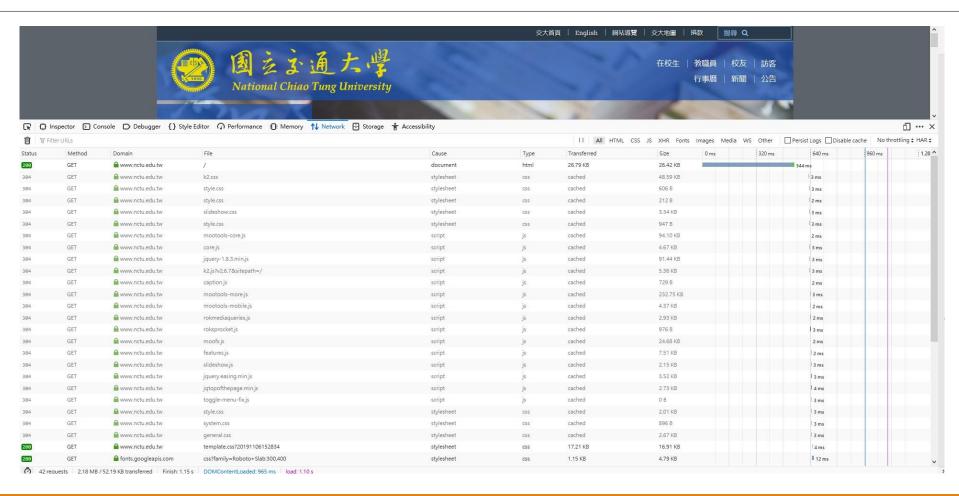








### Press F12 in your browser



#### **URL**

- •URL = protocol://host:port/path
- •Example: http://localhost:8083/add/1/1

# func HandleFunc(pattern string, handler func(ResponseWriter, \*Request))

 HandleFunc registers the handler function for the given pattern in the DefaultServeMux.

# func ListenAndServe(addr string, handler Handler) error

• ListenAndServe listens on the TCP network address addr and then calls Serve with handler to handle requests on incoming connections.

 The handler is typically nil, in which case the DefaultServeMux is used.

#### Request

r.URL.Path

#### ResponseWriter

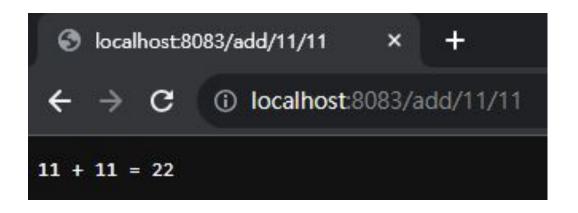
- Content-Type: text/plain
  - If the Header does not contain a Content-Type line, Write adds a Content-Type set to the result of passing the initial 512 bytes of written data to DetectContentType.
- <u>Interface</u>
  - func Fprintf(w io.Writer, format string, a ...any) (n int, err error)

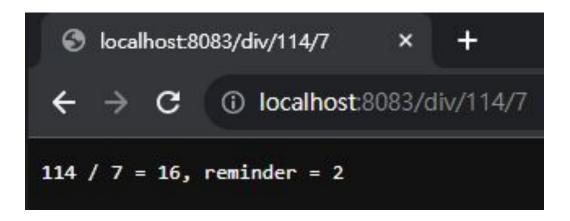
#### Lab03 Simple web calculator

撰寫一個計算機,網址格式如下

http://localhost:8083/operation/num1/num2

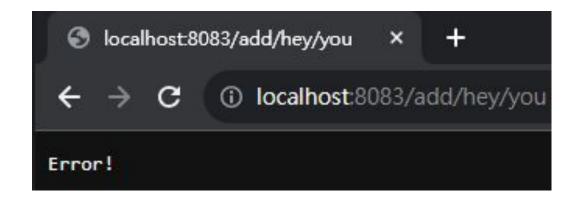
Operation: <a href="mailto:add">add</a> / <a href="mailto:sub">sub</a> / <a href="mailto:mul">mul</a> / <a href="mailto:div">div</a>

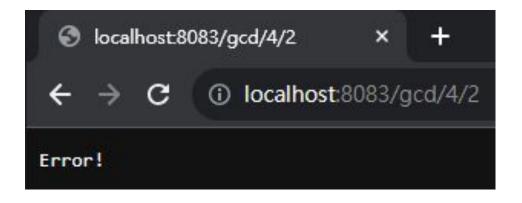


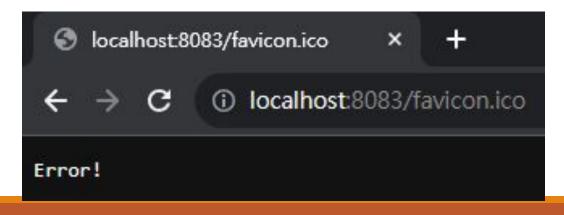


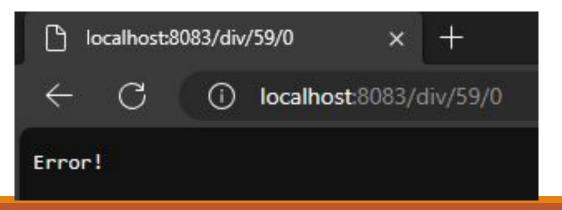
#### Lab03 Simple web calculator

若格式不符, 顯示「Error!」









#### Lab03 Simple web calculator

- 1. 新增目錄 lab3 \$mkdir lab3
- 2. 移動至 lab3 \$cd lab3
- 3. \$go mod init lab3
- 4. 加入 lab3.go 與 lab3\_test.go
- 5. 完成 lab3.go 中的函數 Calculator()
- 6. \$go mod tidy
- 7. \$go run . 然後在 browser 嘗試連線
- 8. \$go test
- 9. 在 .github/workflows 裡面加入 lab3.yml
- 10. 上傳至 GitHub 並繳交連結