Lab4

NYCU Go Programming 2024 2024/10/15

URL

```
•URL = protocol://host:port/path?query
```

```
•Example: http://localhost:8084/lab04?op=add&num1=1&num2=1
```

Request

r.URL.Query().Get(...)

func ServeFile(w ResponseWriter, r *Request, name string)

http.ServeFile(w, r, "some.html")

html/template

Package template (html/template) implements data-driven templates for generating HTML output safe against code injection.

func ParseFiles(filenames ...string) (*Template, error)

ParseFiles creates a new Template and parses the template definitions from the named files.

func (t *Template) Execute(wr io.Writer, data any) error

Execute applies a parsed template to the specified data object, writing the output to wr.

Cont.

```
var mary = Student {
  Name: "Mary",
  Age: 20,
  Height: 164.7
  Weight: 42.1
}
```

```
Student Name: Mary
His / Her age: 20
His / Her height: 164.7
His / Her weight: 42.1

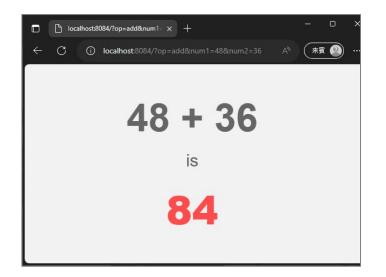
**\leftig{\text{body}} \text{\div} \text{Student Name: Mary</div} \text{\div} \text{\div}
```

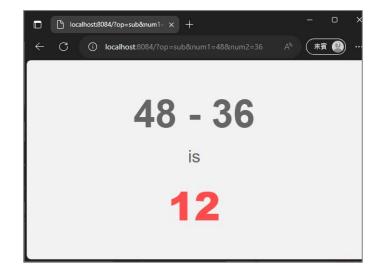
err := template.Must(template.ParseFiles("some.html")).Execute(w, mary)

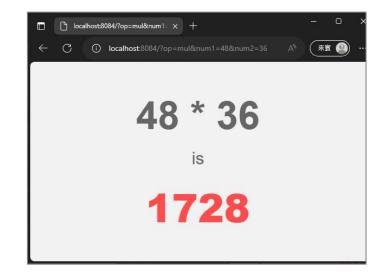
撰寫一個計算機,網址格式如下, query 要有 op, num1, num2 即可http://localhost:8084?op=<str>&num1=<int>&num2=<int>

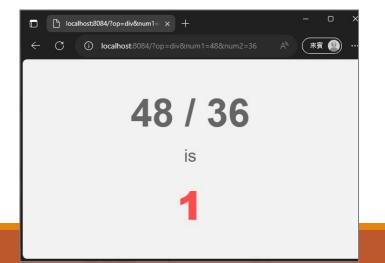
Operation: add / sub / mul / div / gcd / lcm

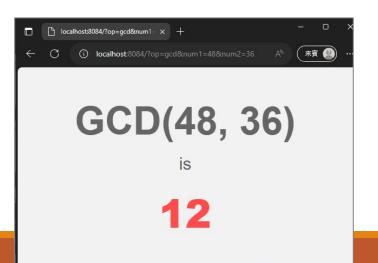
Operation: add / sub / mul / div / gcd / lcm

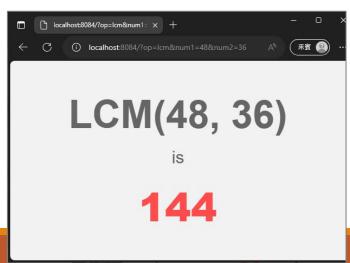




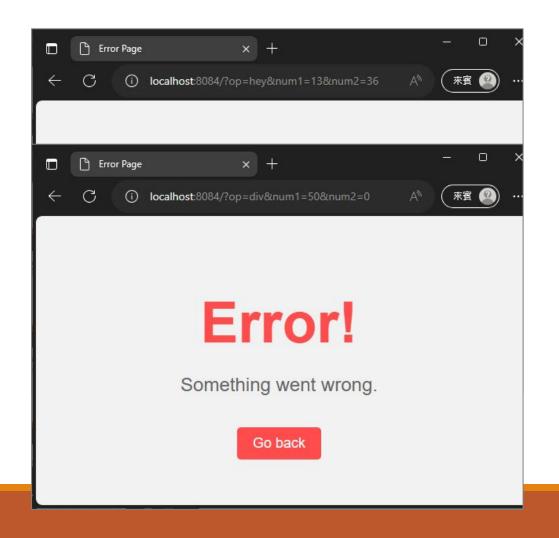


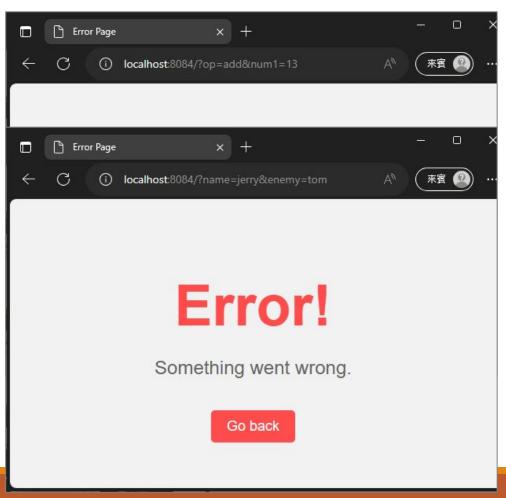






若格式不符,或造成計算錯誤,顯示Error Page





- 1. 新增目錄 lab4 \$mkdir lab4
- 2. 移動至 lab4 \$cd lab4
- 3. \$go mod init lab4
- 4. 加入 lab4.go, lab4_test.go, index.html, 與 error.html
- 5. 完成 lab4.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 lab4.yml
- 10. 上傳至 GitHub 並繳交連結