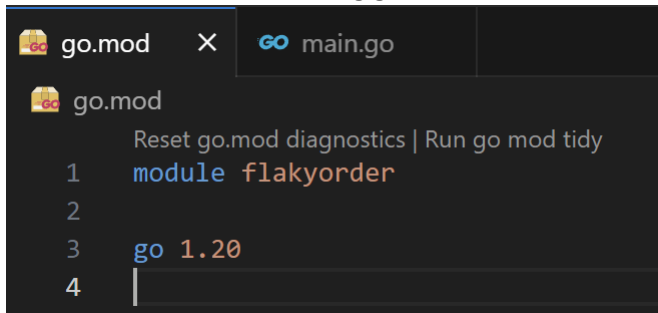**Documentation FSE-TEST**

1. First run, get an error

```
PS D:\CV & Kerja\Apply\SawitPRO\fse-assignment> go run main.go
go: errors parsing go.mod:
D:\CV & Kerja\Apply\SawitPRO\fse-assignment\go.mod:3: invalid go version '1.21.0': must match format 1.23
```
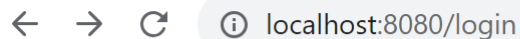
error in specify go version in go module, it should be 1.x, not 1.x.x.

fix it to 1.20 because I'm using go version 1.20.5


```
C:\Users\dicky>go version
go version go1.20.5 windows/amd64
```
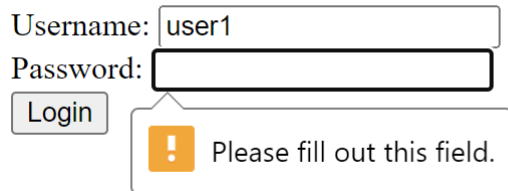
2. First time at /login, html is not rendered.


```html
<form action="/login" method="post">
Username: <input type="text" name="username"><br>
Password: <input type="password" name="password"><br>
<input type="submit" value="Login">
</form>
```
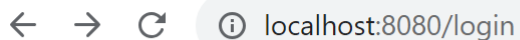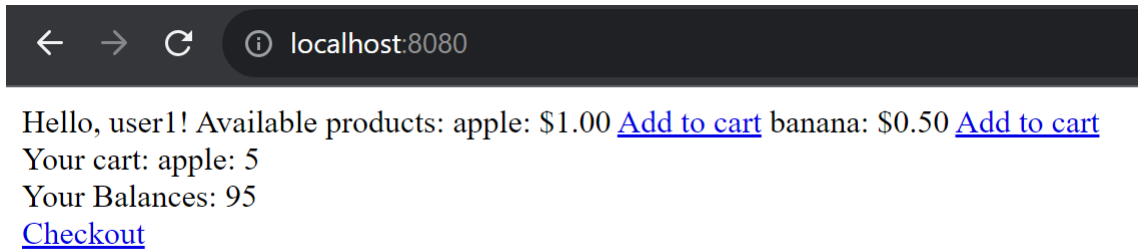
Add content type html in each func that return html, so that the browser recognizes it as html. I also added the required attribute in the input tag.

```go
w.Header().Add("Content-Type", "text/html")
```

3. Add "Your Balances" information

```
fmt.Fprint(w, "<br>Your Balances: ", balances[username])
```

Hello, user1! Available products: apple: $1.00 Add to cart banana: $0.50 Add to cart
Your cart: apple: 5
Your Balances: 95
Checkout

4. At /, /add_to_cart, /checkout, cannot be accessed if not logged in.
5. Block the user to checkout if the balances is not enough.
   a. Add var for flag
   ```
   minus = false
   ```
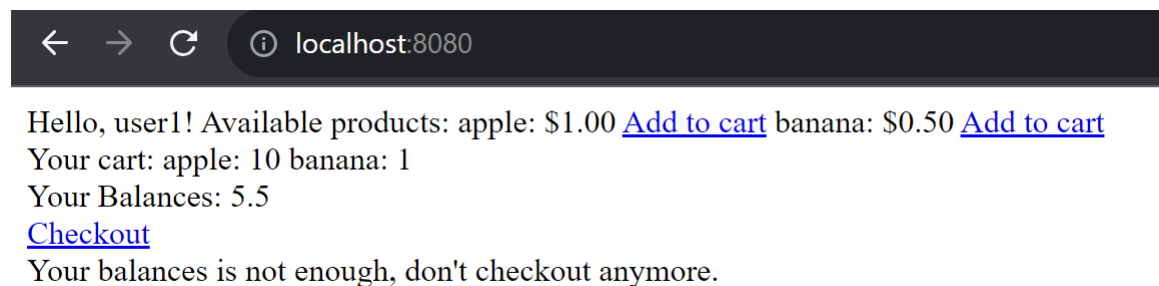   b. Check if the balances is enough for the total checkout.
   checkoutHandler
   ```
   if balances[username]-total < 0 {

       minus = true
   } else {
       minus = false
       balances[username] -= total
   }
   ```
   indexHandler
   ```
   if minus {
       fmt.Fprint(w, "<br>Your balances is not enough, don't checkout
   anymore.")
   }
   ```

Hello, user1! Available products: apple: $1.00 Add to cart banana: $0.50 Add to cart
Your cart: apple: 10 banana: 1
Your Balances: 5.5
Checkout
Your balances is not enough, don't checkout anymore.

Recommendations

1. apply a minimum of characters to passwords.
2. create a feature to logout.
3. create a feature to empty the cart.
4. using https.