LAB2

1. Configure apache to use Worker MPM

```
● (base) eslam@eslam-Latitude-E7450:/etc/apache2$ apache2ctl -M | grep mpm
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set
the 'ServerName' directive globally to suppress this message
  mpm_event_module (shared)
● (base) eslam@eslam-Latitude-E7450:/etc/apache2$ sudo a2dismod mpm_event
[sudo] password for eslam:
Module mpm_event disabled.
To activate the new configuration, you need to run:
  systemctl restart apache2
● (base) eslam@eslam-Latitude-E7450:/etc/apache2$ systemctl restart apache2
● (base) eslam@eslam-Latitude-E7450:/etc/apache2$ sudo a2enmod mpm_worker
Considering conflict mpm_event for mpm_worker:
Considering conflict mpm_prefork for mpm_worker:
Module mpm_worker already enabled
● (base) eslam@eslam-Latitude-E7450:/etc/apache2$ apache2ctl -M | grep mpm
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set
the 'ServerName' directive globally to suppress this message
  mpm_worker_module (shared)
○ (base) eslam@eslam-Latitude-E7450:/etc/apache2$ 
```

eck the status of `rewrite_mod` and enable it if it is enabled.

```
● (base) eslam@eslam-Latitude-E7450:/etc/apache2$ apache2ctl -M | grep rewrite
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set
the 'ServerName' directive globally to suppress this message
  rewrite_module (shared)
○ (base) eslam@eslam-Latitude-E7450:/etc/apache2$ 
```

3.   Write `RewriteCond` and `RewiteRules` for:
    a. Deny access to http://localhost/page?queryString if queryString contains
        the string forbidden.

```
32
33      #lap2
34
35      RewriteEngine on #important
36
37      #Q3.a
38
39      RewriteCond %{QUERY_STRING} forbidden
40      RewriteRule .+ - [F]
41
```
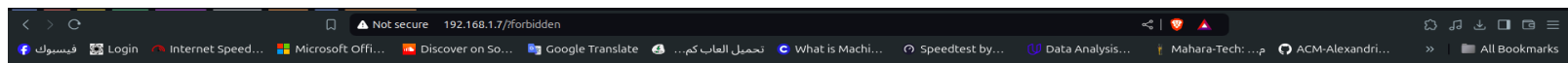
Forbidden

You don't have permission to access this resource.
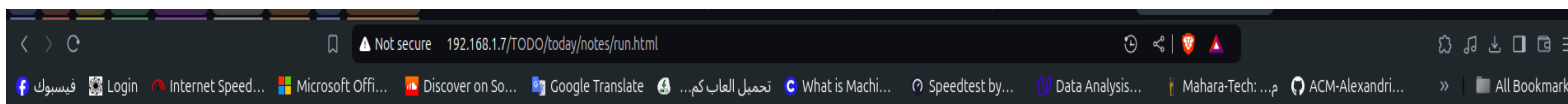
Apache/2.4.58 (Ubuntu) Server at 192.168.1.7 Port 80

b. Remove the Query String

```
#Q3.b

RewriteCond %{QUERY_STRING} (state)=(.+)
RewriteRule ^/TASKS/(.+)/(.+) /TODO/$2/$1/%2.html? [R]
```

Not Found

The requested URL was not found on this server.
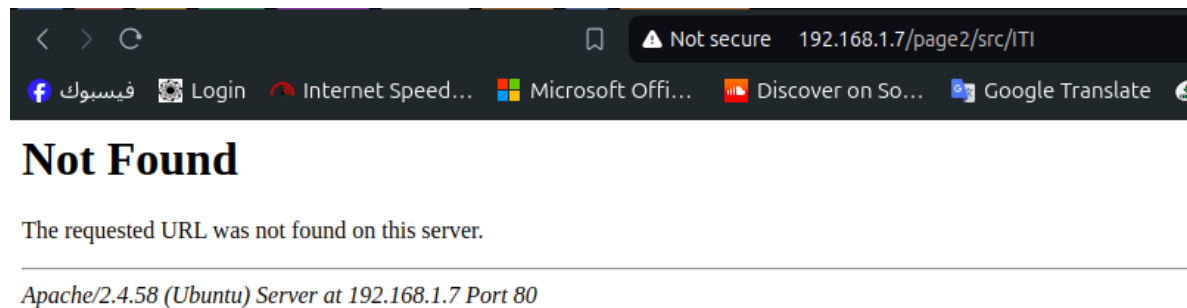
Apache/2.4.58 (Ubuntu) Server at 192.168.1.7 Port 80

c. Rewrite URLs like http://localhost/page1?var=val to http://localhost/page2?var=val but do not rewrite if val isn't present.

```
46
47      #Q3.c
48      RewriteCond %{QUERY_STRING} (.+)=(.+)
49      RewriteRule ^/page1 /page2?%1=%2 [R]
50
51
```

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Not Found

The requested URL was not found on this server.

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d. Take a URL of the form http://localhost/path?var=val and transform it into
http://localhost/path/var/val.
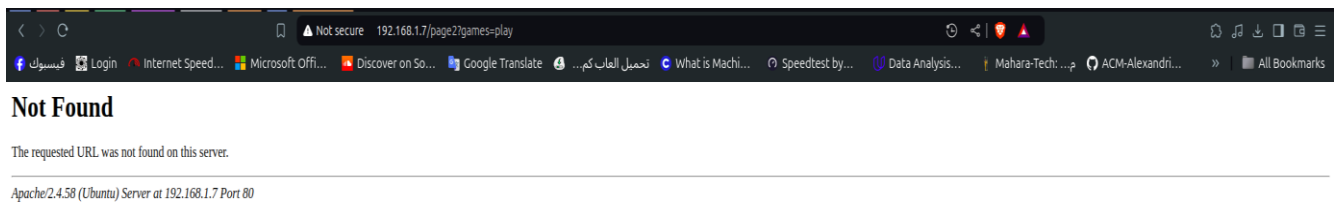
```
51
52    #Q3.d
53    RewriteCond %{QUERY_STRING} (.+)=(.+)
54    RewriteRule ^/page1 /page2/%1/%2? [R]
55
56
```

< > C   🔖 ⚠ Not secure   192.168.1.7/page2/src/ITI

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Not Found

The requested URL was not found on this server.

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e. Map http://localhost/example/one/two to
http://localhost/something.cgiarg=one&otho

```
55
56    #Q3.e
57    RewriteRule ^/(.+)/(.+)/(.+)$ /something.cgi?arg=$2&other=$3 [R]
58
59
60
```

Not Found

The requested URL was not found on this server.

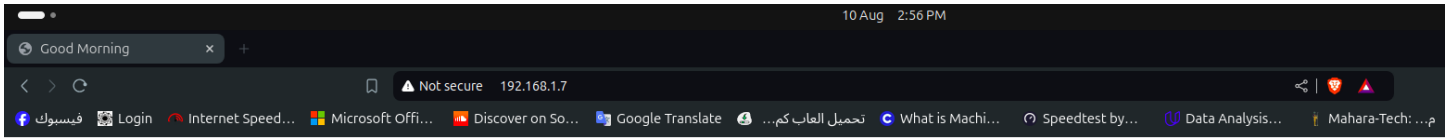Apache/2.4.58 (Ubuntu) Server at 192.168.1.7 Port 80

f. (**Bonus**) Display a goodevening.html page if the time is after 6:00 PM and
   g


```
#Bounse

RewriteCond %{TIME_HOUR} >=18
RewriteRule .+ /bouns/goodevening.html [L]

RewriteCond %{TIME_HOUR} <18
RewriteRule .+ /bouns/goodmooring.html [L]
```

ng.html page if the time is before that

Good Morning!