Apache Lab1

Team 4

- Mazen AbdelTawab Saad
- Ahmed Mohammed Ahmed
- Shrouk Ahmed Hassan
- Rehab Ezat Nady

1. Install Apache HTTP server

```
sudo apt update
sudo apt install apache2
```

2. Create two simple html pages named "page1.html, page2.html" then use the suitable directive to automatically redirect from localhost/page1.html to localhost/page2.html.

(solution)
# start server
sudo service apache2 start

# restart server
sudo service apache2 restart

cd /var/www/html
sudo mkdir -p lab1/q{2..6}

cd lab1/q2
sudo touch page1.html page2.html .htaccess

Inside the file .htaccess
RewriteEngine On
RewriteRule ^page1\.html$ /lab1/q2/page2.html [R=301,L]

Inside the file apache2.conf
<Directory /var/www/html/lab1/q2>
    AllowOverride All
</Directory>

Index of /lab1/q2

Name	Last modified	Size	Description
Parent Directory		-	
page1.html	2024-07-23 16:41	362	
page2.html	2024-07-23 13:02	288	

Apache/2.4.52 (Ubuntu) Server at localhost Port 80

3. Ask for user name and password when accessing a directory

(solution)
Inside the file apache2.conf
lab1 q3
```
<Directory /var/www/html/lab1/q3>
    AuthType Basic
    AuthName "Please enter your creds"
    AuthUserFile /var/www/html/.htpasswd
     Require valid-user
</Directory>
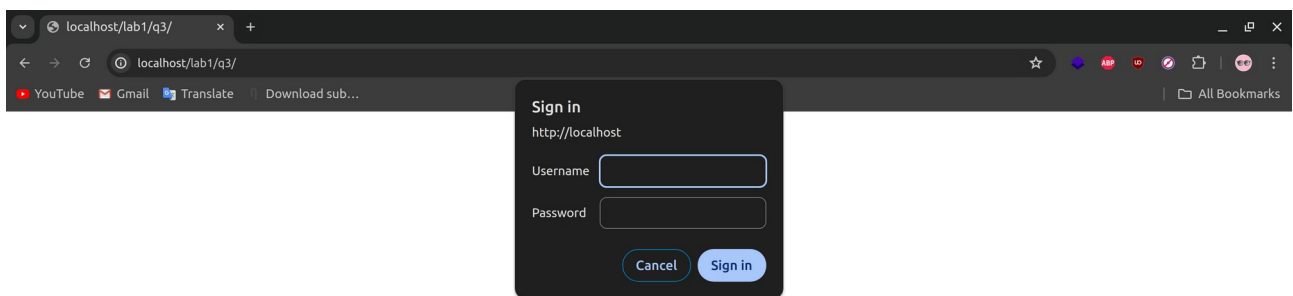```

```
# In the terminal
sudo htpasswd -c /var/www/html/.htpasswd admin
```

new password
123123

4. Apply authentication before downloading PDF files.

(solution)
```
# Inside the file apache2.conf
# lab1 q4
<FilesMatch "\.pdf$">
    AuthType Basic
    AuthName "Restricted Content"
    AuthUserFile /var/www/html/.htpasswd
    Require valid-user
</FilesMatch>
```

5. Create a directory then allow access to one of your classmates only.

(solution)
Inside the file apache2.conf
lab1 q5
<Directory /var/www/html/lab1/q5>
    Deny from all
    Allow from 154.178.254.39
    Allow from 154.178.253.220
    Allow from 41.68.71.101
    Allow from 154.178.232.64
    Order Deny,Allow
</Directory>

6. Disable listing the directory content (hint use indexs)

(solution)
cd q6
sudo touch .htaccess

Inside the file .htaccess
Options -Indexes

Inside the file apache2.conf
lab1 q6
<Directory /var/www/html/lab1/q6>
    AllowOverride All
</Directory>

Forbidden

You don't have permission to access this resource.

Apache/2.4.52 (Ubuntu) Server at localhost Port 80