

Apache lap1

Team Member :

- 1. Ghada Emad Bhloul**
- 2. Esraa Tarek Mohammed Foda**
- 3. Fatma Ali Abdel Fatah Mansour**
- 4. Aml Mohsen Mohamed elzaatary**
- 5. Nada Mohammed Ehab**

1. already install apache

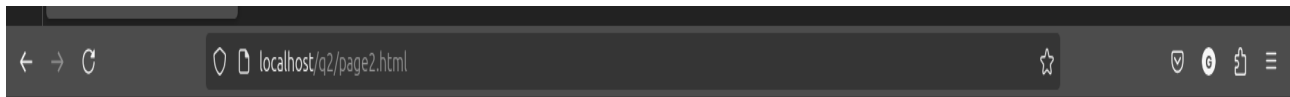
2. Create two simple html pages named “page1.html, page2.html” then use the suitable directive to automatically redirect from localhost/page1.html to localhost/page2.html.

At the end of apache.config file

```
Redirect /q2/page1.html http://localhost/q2/page2.html
```

```
ghx@ghx:/etc/apache2$ cd /var/www/html
ghx@ghx:/var/www/html$ ls
index.html
ghx@ghx:/var/www/html$ mkdir q2
mkdir: cannot create directory 'q2': Permission denied
ghx@ghx:/var/www/html$ sudo mkdir q2
ghx@ghx:/var/www/html$ touch page1.html page2.html
touch: cannot touch 'page1.html': Permission denied
touch: cannot touch 'page2.html': Permission denied
ghx@ghx:/var/www/html$ sudo touch page1.html page2.html
ghx@ghx:/var/www/html$ sudo vi q2/page1.html
ghx@ghx:/var/www/html$ sudo vi q2/page2.html
ghx@ghx:/var/www/html$ sudo service apache2 start
ghx@ghx:/var/www/html$ ls
index.html  page1.html  page2.html  q2
ghx@ghx:/var/www/html$ mv page1.html q2
mv: replace 'q2/page1.html', overriding mode 0644 (rw-r--r--)
ghx@ghx:/var/www/html$ mv page2.html q2
mv: replace 'q2/page2.html', overriding mode 0644 (rw-r--r--)
ghx@ghx:/var/www/html$ chmod +x q2
chmod: changing permissions of 'q2': Operation not permitted
ghx@ghx:/var/www/html$ sudo chmod +x q2
ghx@ghx:/var/www/html$ ls
index.html  page1.html  page2.html  q2
ghx@ghx:/var/www/html$ cd q2
ghx@ghx:/var/www/html/q2$ ls
page1.html  page2.html
ghx@ghx:/var/www/html/q2$ sudo vi page1.html
ghx@ghx:/var/www/html/q2$ cd ..
ghx@ghx:/var/www/html$ rm page1.html page2.html
rm: remove write-protected regular empty file 'page1.html'? y
rm: cannot remove 'page1.html': Permission denied
```

```
ghx@ghx:/var/www/html$ ls -al
total 28
drwxr-xr-x 3 root root 4096 Jan 30 15:49 .
drwxr-xr-x 3 root root 4096 Jan 30 12:18 ..
-rw-r--r-- 1 root root 44 Jan 30 15:25 .htpasswd
-rw-r--r-- 1 root root 10671 Jan 30 12:19 index.html
drwxr-xr-x 2 root root 4096 Jan 30 16:23 q2
```

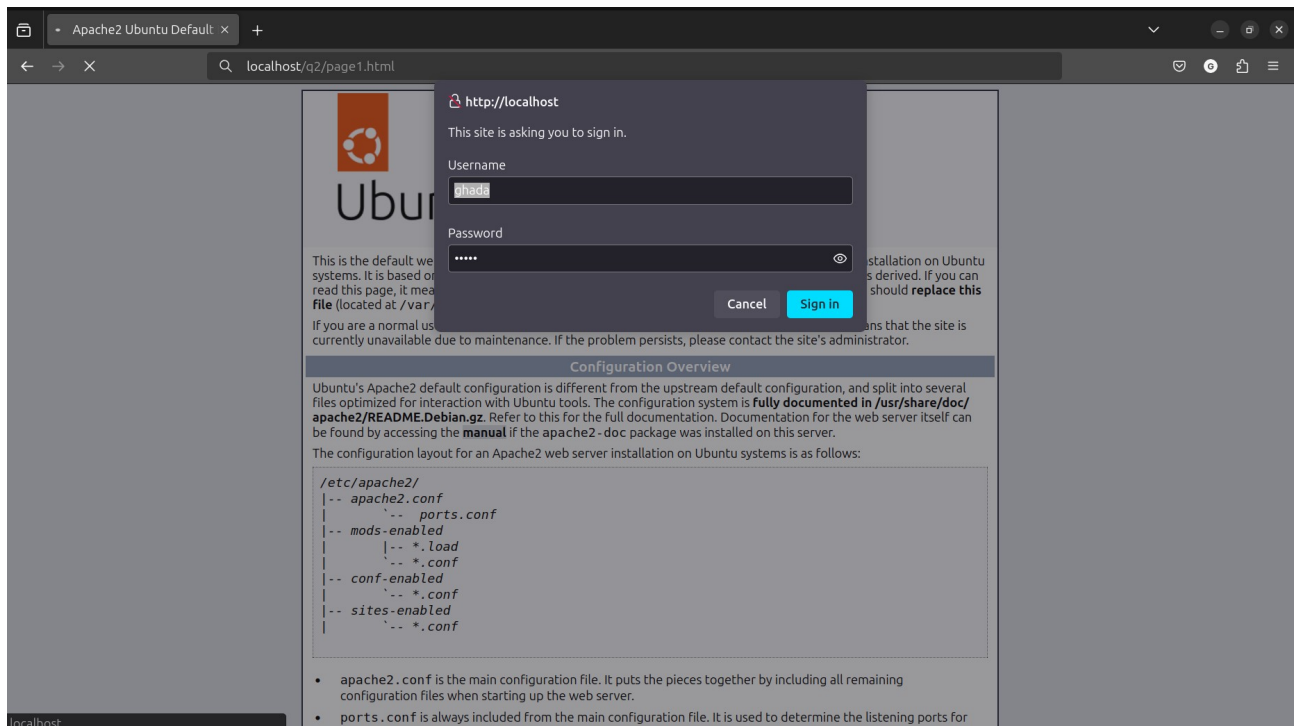


this is page 2

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

```
<Directory /var/www/html/q2>  
    AuthType Basic  
    AuthName "please enter your creds"  
    AuthUserFile /var/www/html/.htpasswd  
    Require valid-user  
</Directory>
```

```
ghx@ghx:/var/www/html$ sudo htpasswd -c .htpasswd ghada  
New password:  
Re-type new password:  
Adding password for user ghada
```



4. Apply authentication before downloading PDF files.

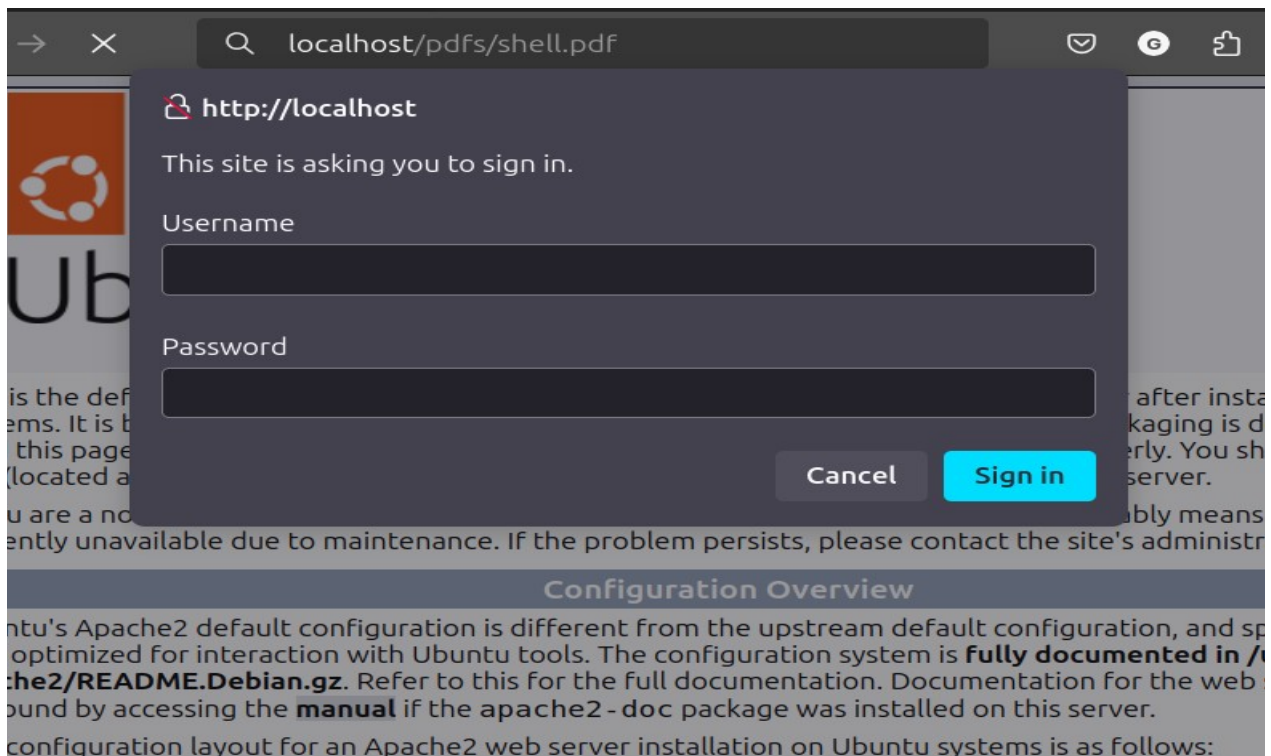
```
ghx@ghx:/var/www/html$ sudo mkdir pdfs
ghx@ghx:/var/www/html$ sudo vi /var/www/html/pdfs/.htaccess
ghx@ghx:/var/www/html$ cd
ghx@ghx:~$ cd Downloads
ghx@ghx:~/Downloads$ mv Shell* /var/www/html/pdfs
mv: cannot move 'Shell Script-Day Three.pdf' to '/var/www/html/pdfs/Shell Script-Day Three.pdf': Permission denied
ghx@ghx:~/Downloads$ sudo mv Shell* /var/www/html/pdfs
```

In `apache.config` file

```
<Directory /var/www/html/pdfs>
    AllowOverride All
</Directory>
```

```
ghx@ghx:/var/www/html/pdfs$ ls -la
total 656
drwxr-xr-x 2 root root 4096 Jan 31 12:21 .
drwxr-xr-x 4 root root 4096 Jan 31 12:13 ..
-rw-r--r-- 1 root root 96 Jan 31 12:19 .htaccess
-rw-rw-r-- 1 ghx ghx 658640 Jan 15 13:30 shell.pdf
```

```
AuthType Basic
AuthName "Restricted pdf"
AuthUserFile /var/www/html/.htpasswd
Require valid-user
```

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

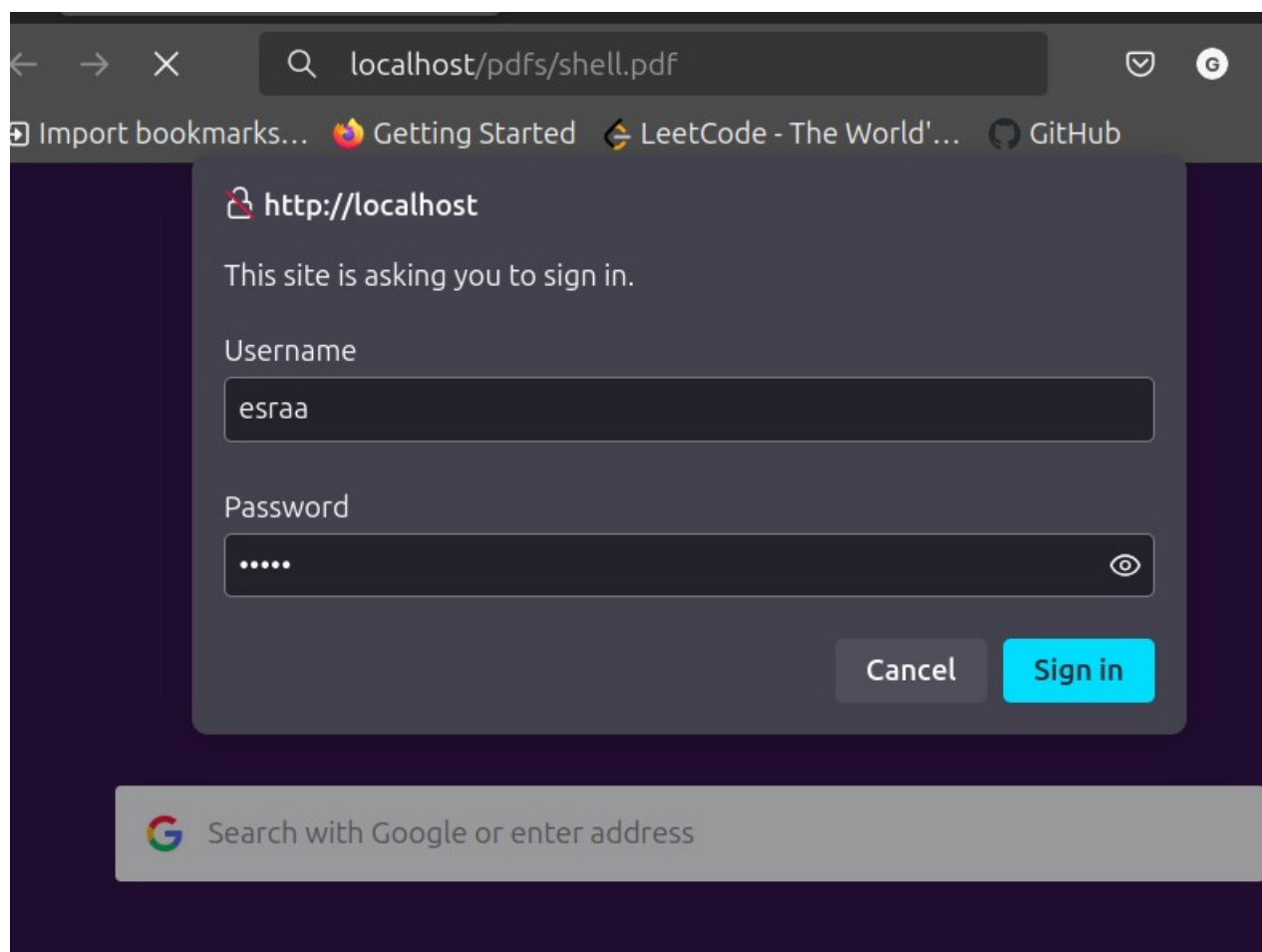
```
ghx@ghx: /var/www/html$ sudo mkdir classmate_pdfs
ghx@ghx: /var/www/html$ sudo vi /classmate_pdfs/.htaccess
```

```
AuthType Basic
AuthName "Classmate Only"
AuthUserFile /var/www/.htpasswd
Require user esraa
```

```
ghx@ghx:/var/www/html/classmate_pdfs$ sudo htpasswd /var/www/html/.htpasswd esraa
New password:
Re-type new password:
Adding password for user esraa
```

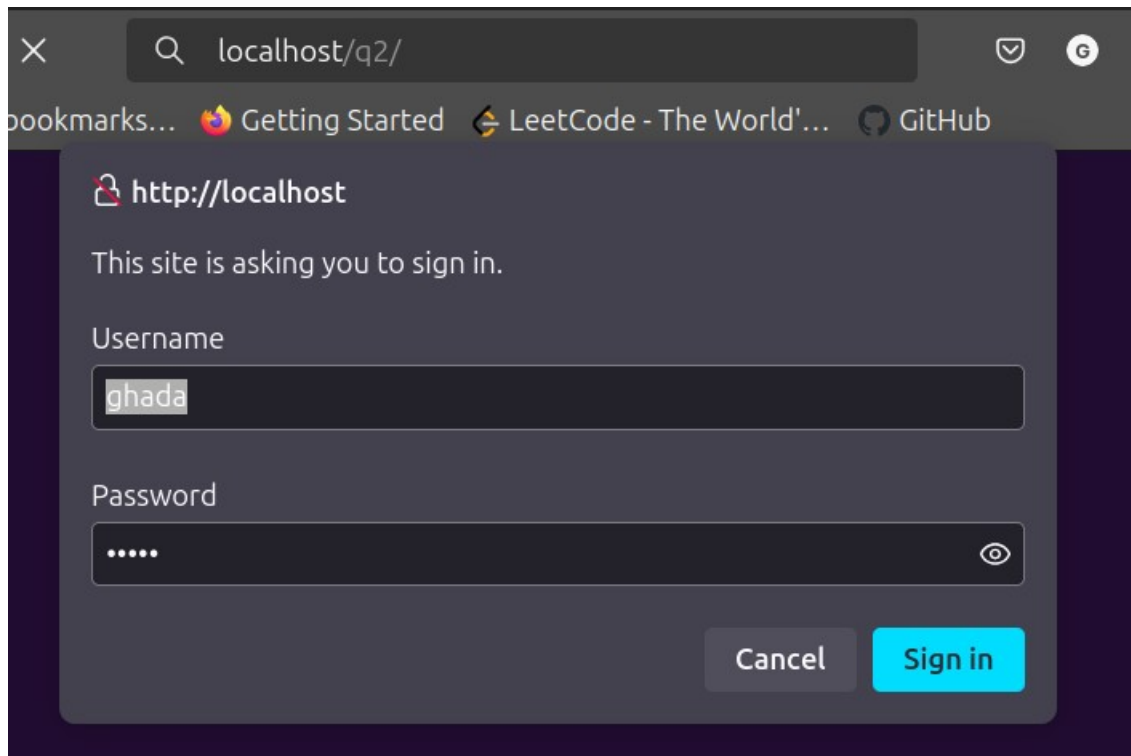
```
ghada:$apr1$wFF9p6bn$wrRsbjvsugrPKrfA8fPMY.
esraa:$apr1$G9fBStv5$e95PhlPeK7XxJ1sF9ucvn1
~
~
~
```

```
</Directory>
<Directory /var/www/html/classmate_pdfs>
  AllowOverride All
</Directory>
```



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

```
<Directory /var/www/html/q2>
  AuthType Basic
  AuthName "please enter your creds"
  AuthUserFile /var/www/html/.htpasswd
  Options -Indexes
  Require valid-user
</Directory>
```



localhost/q2/

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http://localhost

This site is asking you to sign in.

Username

ghada

Password

.....

Cancel Sign in



Forbidden

You don't have permission to access this resource.

Apache/2.4.58 (Ubuntu) Server at localhost Port 80