

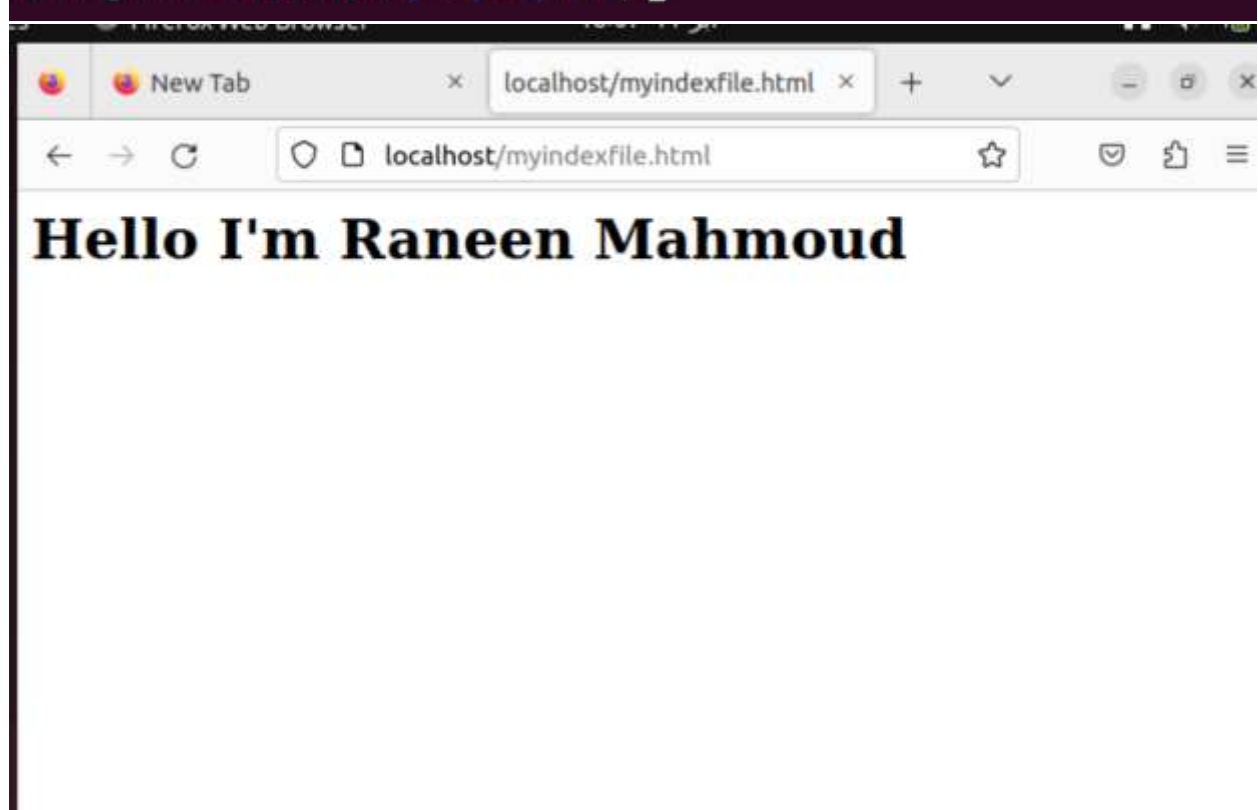
Lab 4

- 1) Using apt install apache2 server

```
raneen@raneen-VirtualBox:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap
Suggested packages:
  apache2-doc
raneen@raneen-VirtualBox:~$ sudo systemctl start apache2
```

- 2) Replace the default index.html content with your own content

```
raneen@raneen-VirtualBox:~$ cd /var/www/html
raneen@raneen-VirtualBox:/var/www/html$ sudo nano index.html
[sudo] password for raneen:
raneen@raneen-VirtualBox:/var/www/html$ sudo nano new.html
raneen@raneen-VirtualBox:/var/www/html$ sudo nano myindexfile.html
raneen@raneen-VirtualBox:/var/www/html$ sudo nano index.html
raneen@raneen-VirtualBox:/var/www/html$ sudo mv myindexfile.html index.html
raneen@raneen-VirtualBox:/var/www/html$ sudo systemctl restart apache2
raneen@raneen-VirtualBox:/var/www/html$
```



3-Install php module for apache2

```
raneen@raneen-VirtualBox:/var/www/html$ sudo apt install libapache2-mod-php
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php8.1 php-common php8.1-cli php8.1-common php8.1-opcache
  php8.1-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php8.1 php-common php8.1-cli
```

4-Create new Named VirtualHost to serve new php project with special access log

```
raneen@raneen-VirtualBox:/var/www/html$ sudo mkdir lab4
raneen@raneen-VirtualBox:/var/www/html$ sudo nano lab4/index.php
```

5-Create simple index.php file for the php site

```
GNU nano 6.2 lab4/index.php
<?php echo "Hello in php file"?>
```

6-Configure /etc/hosts for php site.

```
raneen@raneen-VirtualBox:/var/www/html$ sudo mkdir lab4
raneen@raneen-VirtualBox:/var/www/html$ sudo nano lab4/index.php
raneen@raneen-VirtualBox:/var/www/html$ sudo nano lab4/index.php
raneen@raneen-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/
lab4.conf
[sudo] password for raneen:
raneen@raneen-VirtualBox:/var/www/html$ sudo a2ensite lab4.conf
[sudo] password for raneen:
Enabling site lab4.
To activate the new configuration, you need to run:
  systemctl reload apache2
raneen@raneen-VirtualBox:/var/www/html$ sudo systemctl reload apache2
Job for apache2.service failed.
See "systemctl status apache2.service" and "journalctl -xeu apache2.service" fo
r details.
raneen@raneen-VirtualBox:/var/www/html$
```

```
Firefox Web browser
lab4/index.php
<?php echo "Hello World in php file"?>
```



7) Disable directory listing for the new virtualhost

```
raneen@raneen-VirtualBox:/var/www/html$ sudo nano /etc/apache2/sites-available/lab4.conf
raneen@raneen-VirtualBox:/var/www/html$
```

```
GNU nano 6.2 /etc/apache2/sites-available/lab4.conf
Configuration:
<VirtualHost *:80>
  ServerName lab4.local
  DocumentRoot /var/www/html/lab4

  ErrorLog /var/log/apache2/lab4-error.log
  CustomLog /var/log/apache2/lab4-access.log combined

  <Directory /var/www/html/lab4>
    Options -Indexes
    AllowOverride All
    Required all granted
  </Directory>
</VirtualHst>
```