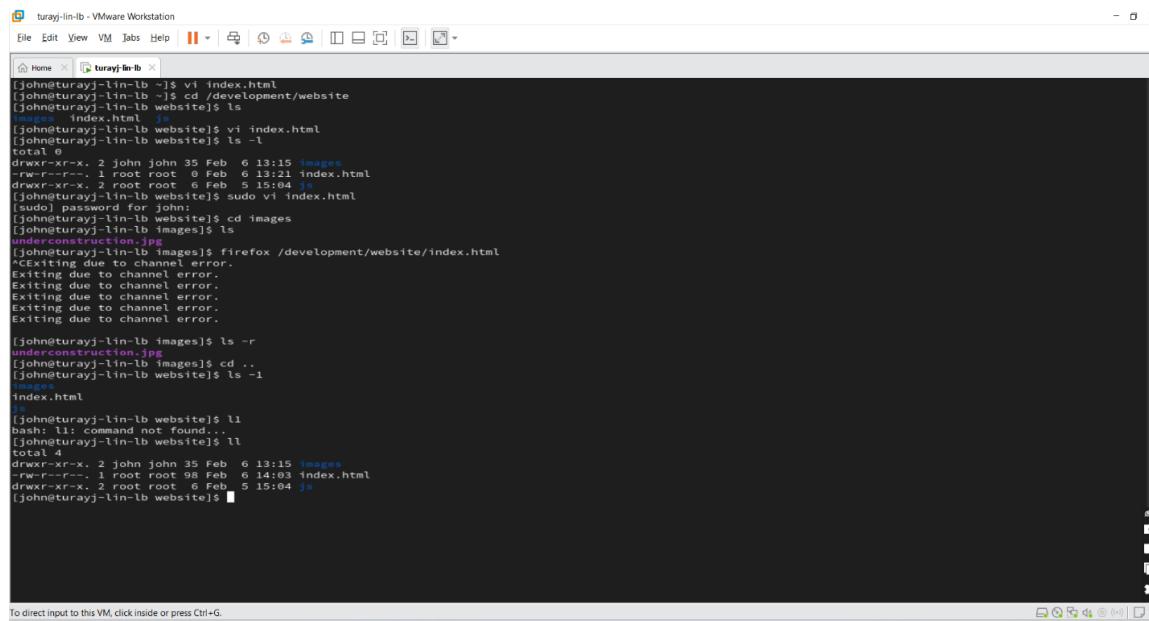


Linux Files and Directories Project Documentation

Project Overview

This project involved creating a directory structure for a web application, adding a placeholder HTML file, downloading an image, and verifying proper rendering in Firefox. This setup simulates a basic development environment organization on a Linux server.

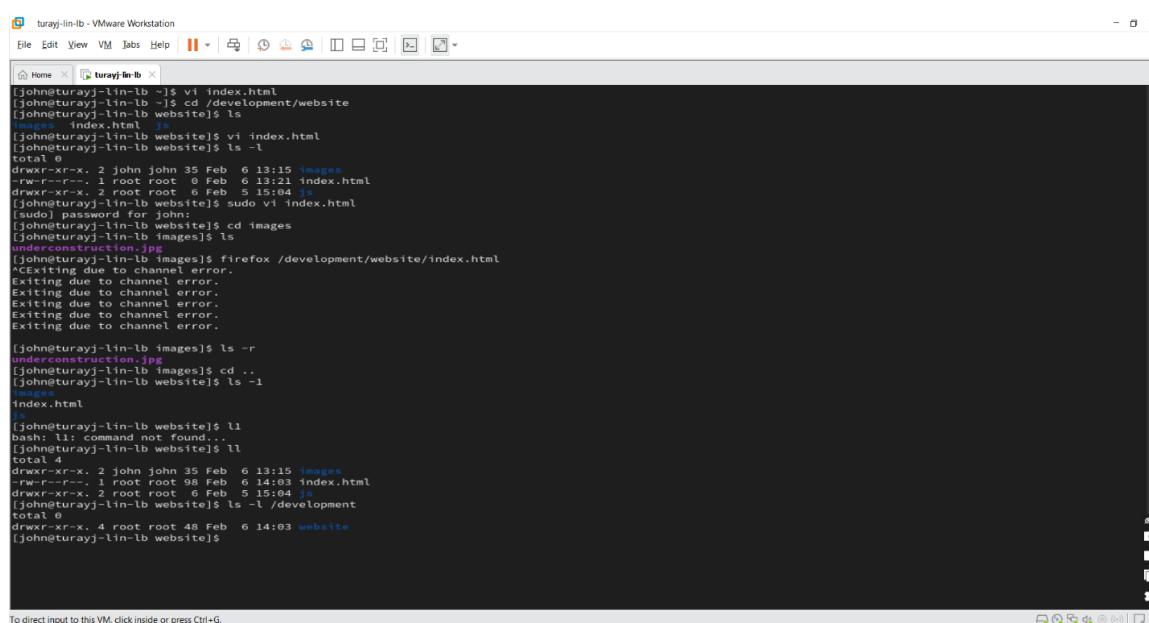
Screenshot 1: Directory Listing of /development and /development/website



The screenshot shows a terminal window titled "turayi-lin-lb" running on a VMware Workstation. The terminal displays the following command-line session:

```
[johneturay@john-lin-lb ~]$ vi index.html
[johneturay@john-lin-lb ~]$ cd /development/website
[johneturay@john-lin-lb website]$ ls
total 0
index.html
[johneturay@john-lin-lb website]$ vi index.html
[johneturay@john-lin-lb website]$ ls -l
total 0
drwxr-xr-x 2 john john 35 Feb 6 13:15 images
-rw-r--r-- 1 root root 0 Feb 6 13:21 index.html
drwxr-xr-x 2 root root 6 Feb 5 15:04 js
[johneturay@john-lin-lb website]$ sudo vi index.html
[sudo] password: 
[johneturay@john-lin-lb website]$ cd images
[johneturay@john-lin-lb images]$ ls
underconstruction.jpg
[johneturay@john-lin-lb images]$ firefox /development/website/index.html
*EXI*TM*FIREFOX* channel error.
Exiting due to channel error.

[johneturay@john-lin-lb images]$ ls -r
underconstruction.jpg
[johneturay@john-lin-lb images]$ cd ..
[johneturay@john-lin-lb website]$ ls -l
total 4
index.html
[johneturay@john-lin-lb website]$ ll
bash: ll: command not found...
[johneturay@john-lin-lb website]$ ll
total 4
drwxr-xr-x 2 john john 35 Feb 6 13:15 images
-rw-r--r-- 1 root root 0 Feb 6 14:03 index.html
drwxr-xr-x 2 root root 6 Feb 5 15:04 js
[johneturay@john-lin-lb website]$
```



The screenshot shows a second terminal window titled "turayi-lin-lb" running on a VMware Workstation. The terminal displays the same command-line session as the first screenshot, showing the directory listing and the attempt to open the index.html file in Firefox, which results in a channel error.

```
[johneturay@john-lin-lb ~]$ vi index.html
[johneturay@john-lin-lb ~]$ cd /development/website
[johneturay@john-lin-lb website]$ ls
total 0
index.html
[johneturay@john-lin-lb website]$ vi index.html
[johneturay@john-lin-lb website]$ ls -l
total 0
drwxr-xr-x 2 john john 35 Feb 6 13:15 images
-rw-r--r-- 1 root root 0 Feb 6 13:21 index.html
drwxr-xr-x 2 root root 6 Feb 5 15:04 js
[johneturay@john-lin-lb website]$ sudo vi index.html
[sudo] password: 
[johneturay@john-lin-lb website]$ cd images
[johneturay@john-lin-lb images]$ ls
underconstruction.jpg
[johneturay@john-lin-lb images]$ firefox /development/website/index.html
*EXI*TM*FIREFOX* channel error.
Exiting due to channel error.

[johneturay@john-lin-lb images]$ ls -r
underconstruction.jpg
[johneturay@john-lin-lb images]$ cd ..
[johneturay@john-lin-lb website]$ ls -l
total 4
index.html
[johneturay@john-lin-lb website]$ ll
bash: ll: command not found...
[johneturay@john-lin-lb website]$ ll
total 4
drwxr-xr-x 2 john john 35 Feb 6 13:15 images
-rw-r--r-- 1 root root 0 Feb 6 14:03 index.html
drwxr-xr-x 2 root root 6 Feb 5 15:04 js
[johneturay@john-lin-lb website]$ ls -l /development
total 0
drwxr-xr-x 4 root root 48 Feb 6 14:03 website
[johneturay@john-lin-lb website]$
```

Documentation:

This screenshot shows the directory structure created for the web application. To create the required folders, the following commands were used:

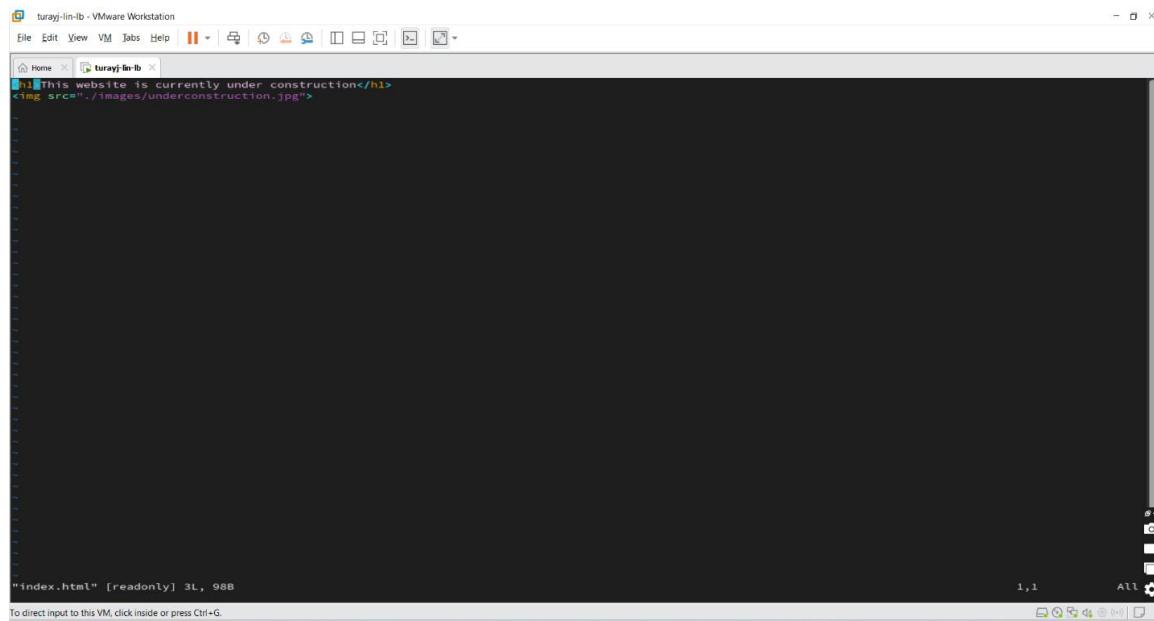
```
sudo mkdir -p /development/website/images  
sudo mkdir -p /development/website/js
```

To verify the structure:

```
ls -l /development  
ls -l /development/website
```

This confirms that the directories exist and are correctly structured for the project.

Screenshot 2: Editing index.html Using vi



Documentation:

This screenshot shows the index.html file opened in vi. To create and edit the file:

```
vi /development/website/index.html
```

The content inserted was:

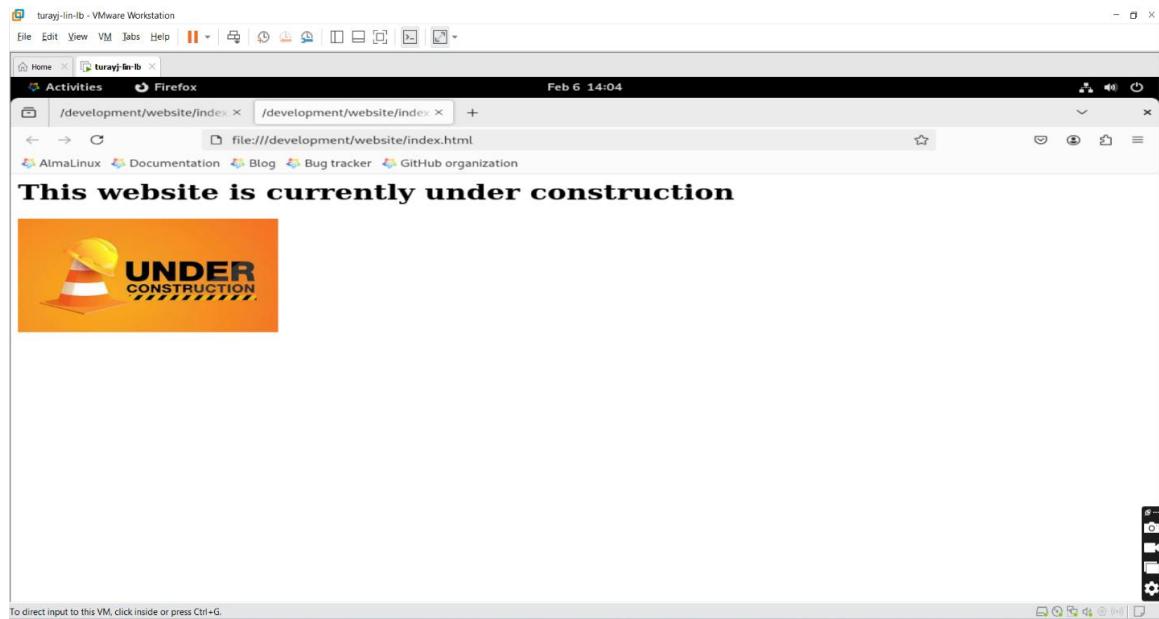
```
<h1>This site is currently under construction</h1>  

```

This serves as a temporary webpage placeholder while development is ongoing.

Screenshot 3: index.html Displayed in Firefox

Insert screenshot here.



Documentation:

This screenshot shows the webpage rendering in Firefox. First, an “under construction” image was downloaded, then moved and renamed using:

```
mv ~/Downloads/<image>.jpg /development/website/images/underconstruction.jpg
```

The webpage was tested by running:

```
firefox /development/website/index.html
```

The successful display confirms that file paths and directory structure are correct.

Final Notes / Reflection

This project strengthened my understanding of Linux filesystem navigation, directory creation, file editing with terminal tools, and image resource linking for web applications. Successfully loading the webpage in Firefox confirmed proper configuration, demonstrating how web content relies on correct directory structure and file paths.

Step-by-step Documentation:

```
turayi-lin-lb - VMware Workstation
File Edit View VM Tabs Help || Home × turayi-lin-lb ×
[john@turayi-lin-lb: ~]$ sudo mkdir -p /development/website/images
[sudo] password for john:
[john@turayi-lin-lb: ~]$ sudo mkdir -p /development/website/js
[john@turayi-lin-lb: ~]$
```

turayi-lin-lb - VMware Workstation

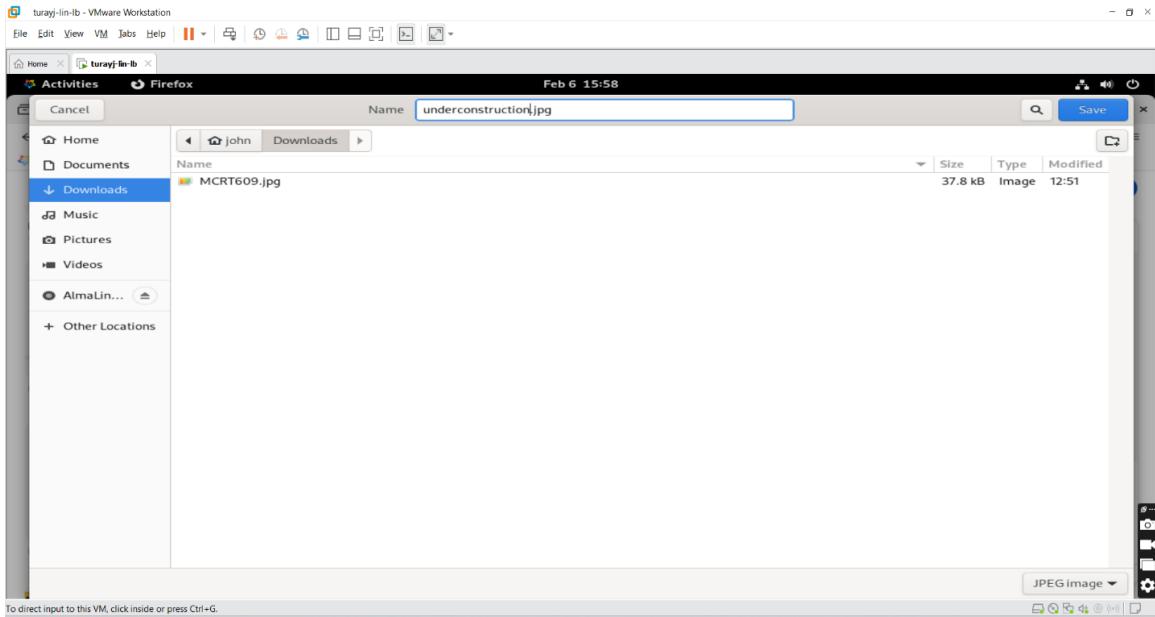
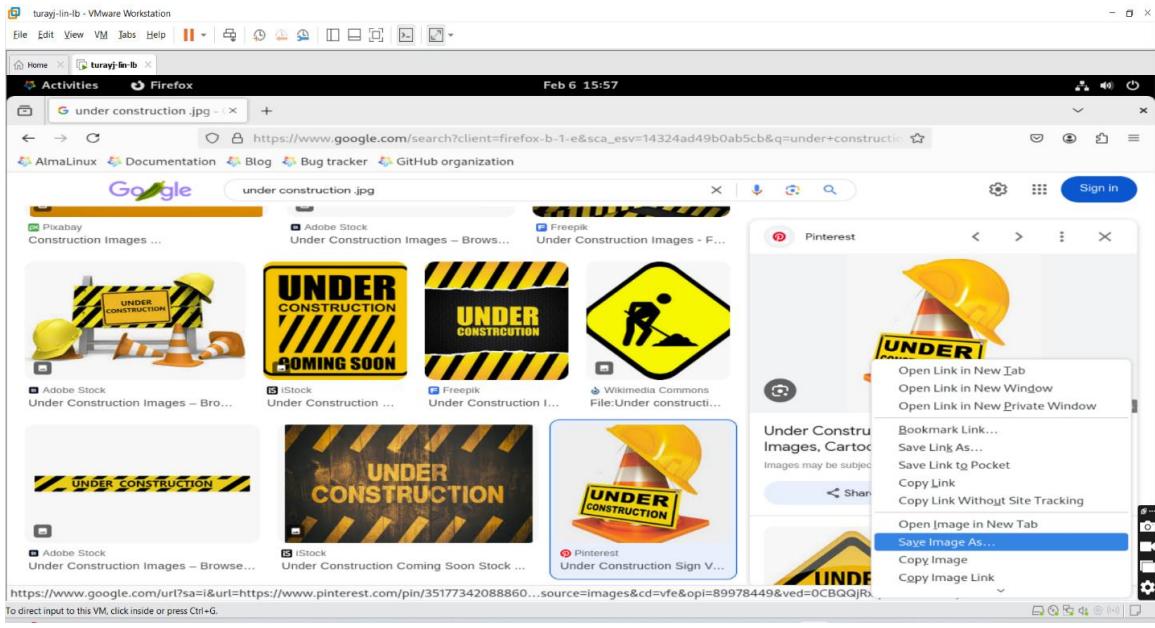
File Edit View VM Tabs Help

Home turayi-lin-lb

```
<h1>This website is currently under construction</h1>
<img src"./images/underconstruction.jpg">
```

index.html [readonly] 3L, 98B

To direct input to this VM, click inside or press Ctrl+G.



```
turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help ||| Home turayj-lin-lb x
john@turayj-lin-lb:~ /usr/bin/vim /development/website/index.html x
john@turayj-lin-lb:~ mv ~/Downloads/underconstruction.jpg /development/website/images/underconstruction.jpg x
john@turayj-lin-lb:~ mv: cannot move '/home/john/Downloads/underconstruction.jpg' to '/development/website/images/underconstruction.jpg': Permission denied
john@turayj-lin-lb:~ ls -l /development/website/images/
ls: /development/website/images: Permission denied
Try 'ls --help' for more information.
john@turayj-lin-lb:~ ls -l /development/website/images/
underconstruction.jpg
john@turayj-lin-lb:~ sudo chown $USER:$USER /development/images/
underconstruction.jpg
chown: invalid user: 'john'
chown: cannot access '/development/images/': No such file or directory
john@turayj-lin-lb:~ sudo chown $USER:$USER /development/website/images/
john@turayj-lin-lb:~ mv ~/Downloads/underconstruction.jpg /development/website/images/underconstruction.jpg
john@turayj-lin-lb:~
```

