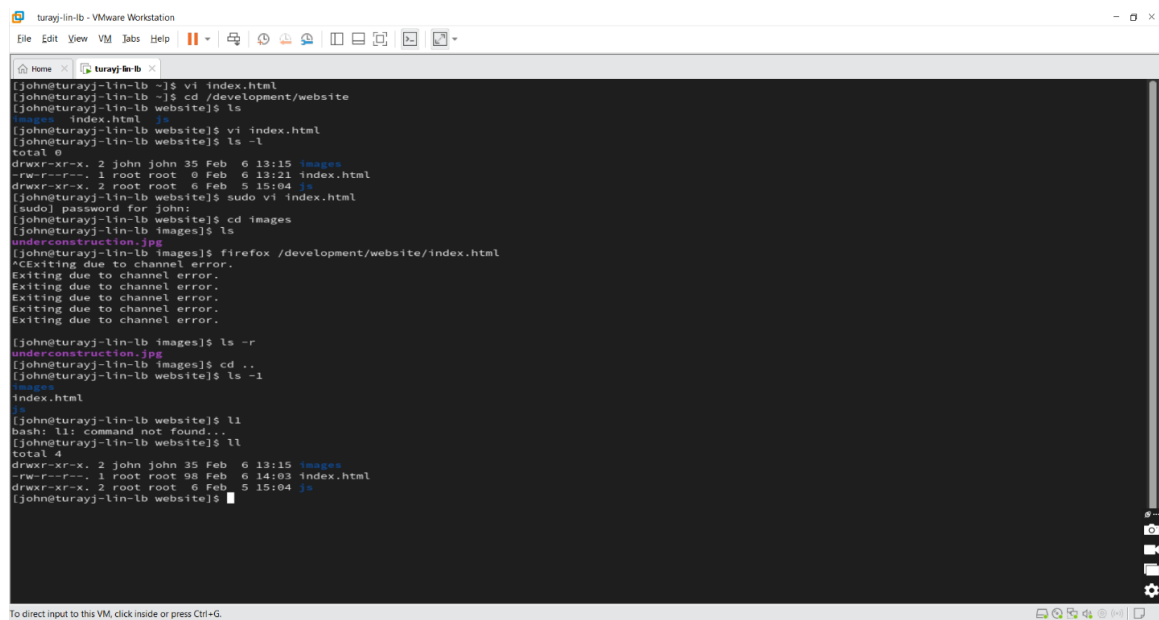


# Linux Files and Directories Project Documentation

## Project Overview

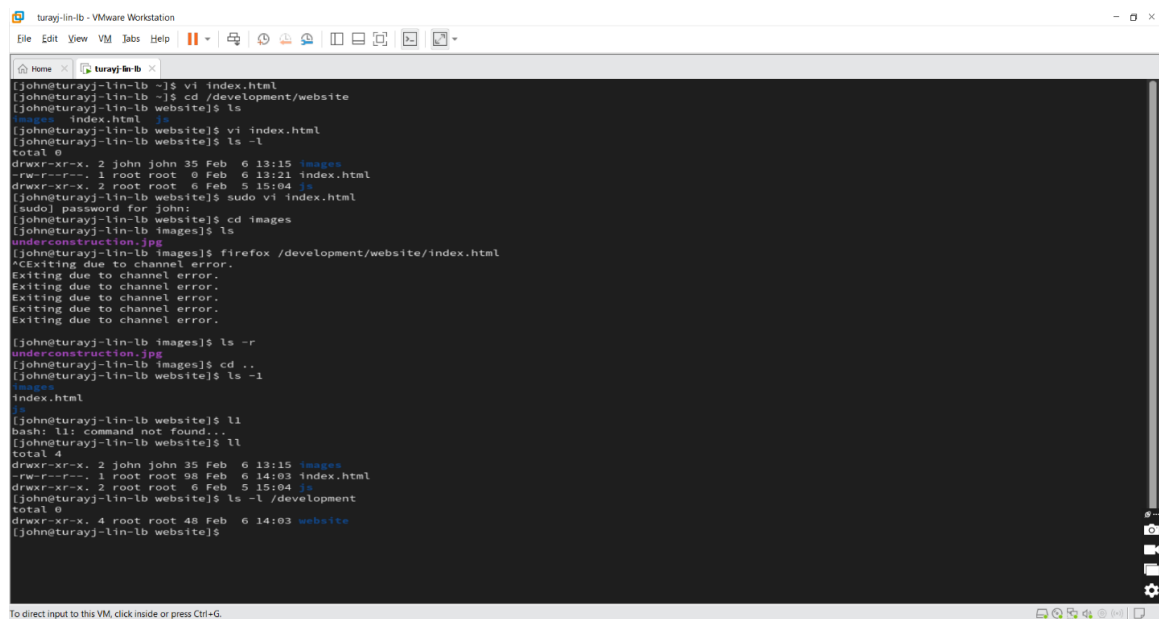
This project involved creating a directory structure for a web application, adding a placeholder HTML file, downloading an image, and verifying proper rendering in Firefox. This setup simulates a basic development environment organization on a Linux server.

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



```
john@turayj-lin-lb ~]$ vi index.html
[john@turayj-lin-lb ~]$ cd /development/website
[john@turayj-lin-lb website]$ ls
images  index.html
[john@turayj-lin-lb website]$ vi index.html
[john@turayj-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 .
[john@turayj-lin-lb website]$ sudo vi index.html
[sudo] password for john:
[john@turayj-lin-lb website]$ cd images
[john@turayj-lin-lb images]$ ls
underconstruction.jpg
[john@turayj-lin-lb images]$ firefox /development/website/index.html
*Exiting due to channel error.
Exiting due to channel error.
Exiting due to channel error.
Exiting due to channel error.
Exiting due to channel error.

[john@turayj-lin-lb images]$ ls -r
underconstruction.jpg
[john@turayj-lin-lb images]$ cd ..
[john@turayj-lin-lb website]$ ls -l
total 4
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 .
[john@turayj-lin-lb website]$
```



```
john@turayj-lin-lb ~]$ vi index.html
[john@turayj-lin-lb ~]$ cd /development/website
[john@turayj-lin-lb website]$ ls
images  index.html
[john@turayj-lin-lb website]$ vi index.html
[john@turayj-lin-lb website]$ ls -l
total 0
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[john@turayj-lin-lb website]$ sudo vi index.html
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total 4
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 .
[john@turayj-lin-lb website]$ ls -l /development
total 0
drwxr-xr-x. 4 root root 48 Feb  6 14:03 website
[john@turayj-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:

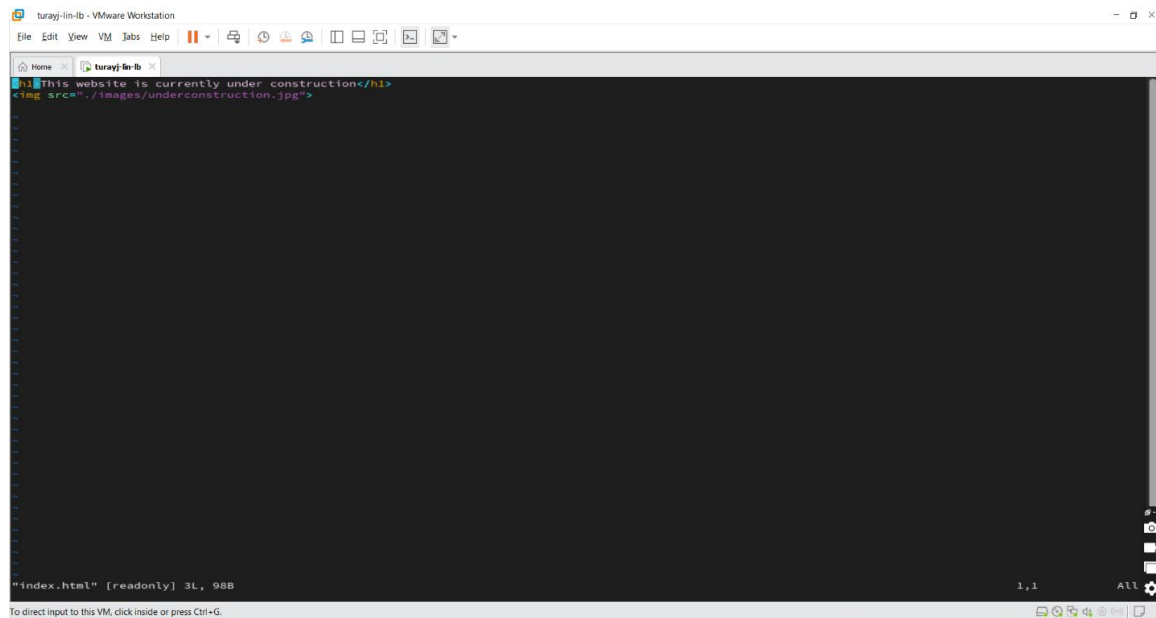
```
sudo mkdir -p /development/website/images  
sudo mkdir -p /development/website/js
```

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
```

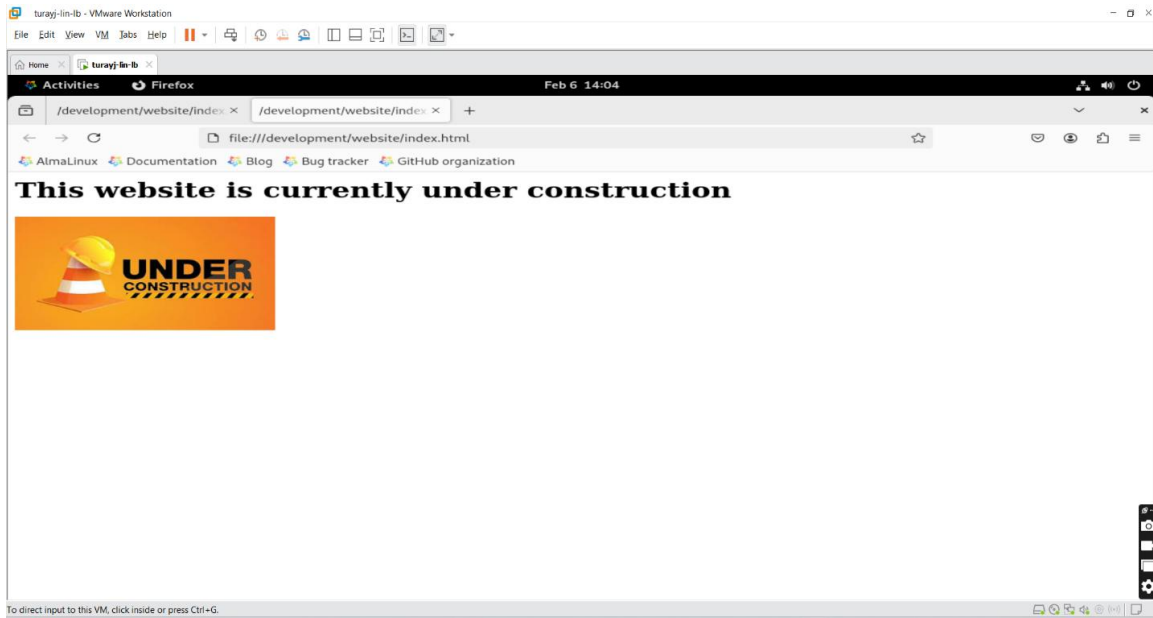
The content inserted was:

```
<h1>This site is currently under construction</h1>  
<img src='./images/underconstruction.jpg'>
```

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
```

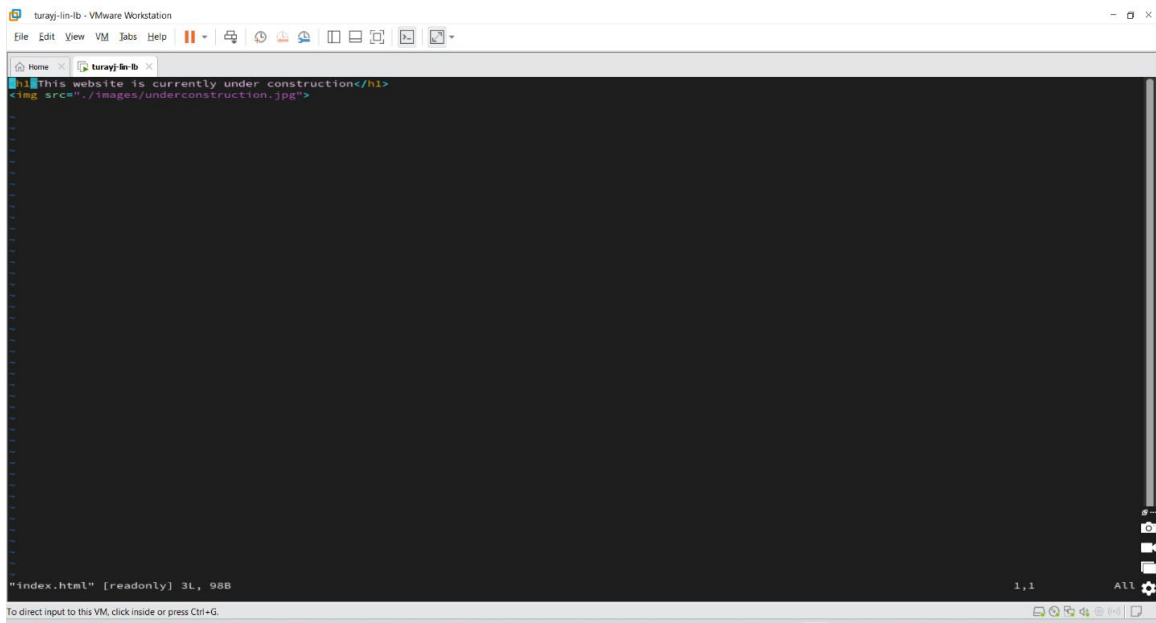
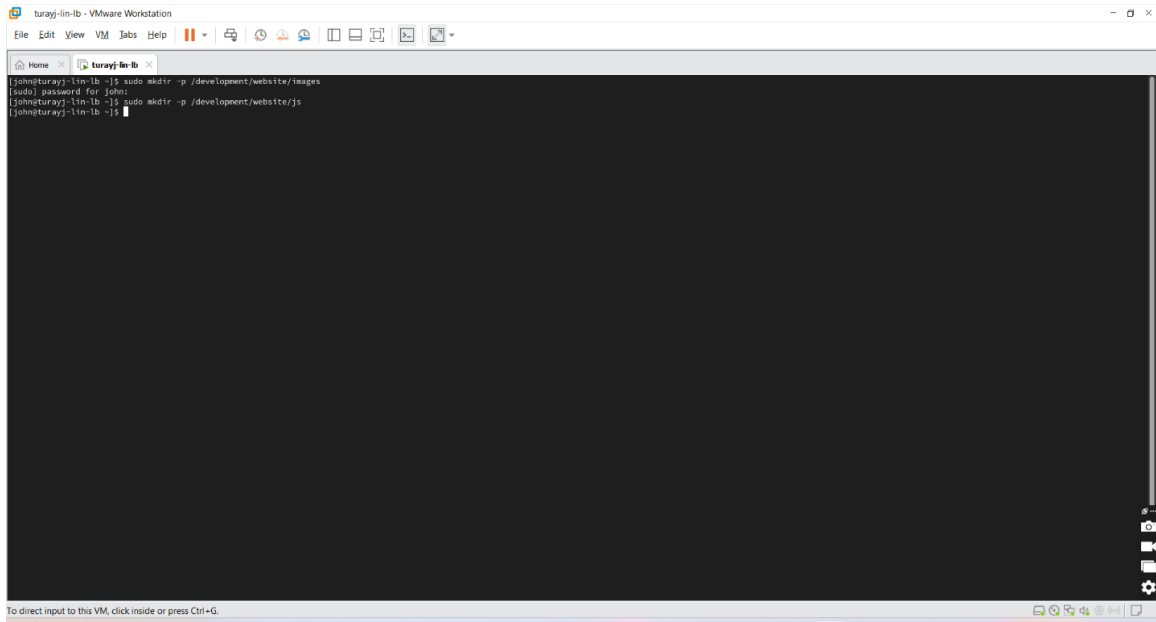
The webpage was tested by running:  
`firefox /development/website/index.html`

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:





```
turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
Home turayj-lin-lb
john@turayj-lin-lb: ~ — /usr/bin/vim /development/website/index.html
[john@turayj-lin-lb ~]$ mv ~/Downloads/underconstruction.jpg /development/website/images/underconstruction.jpg
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: invalid option -- '/'
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/website/images/
[sudo] password for john:
chown: cannot access '/development/website/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 ~]$
```

```
turayj-lin-lb - VMware Workstation
File Edit View VM Tabs Help
Home turayj-lin-lb
[john@turayj-lin-lb ~]$ vi index.html
[john@turayj-lin-lb ~]$ cd /development/website
[john@turayj-lin-lb website]$ ls
images  index.html
[john@turayj-lin-lb website]$ vi index.html
[john@turayj-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
[john@turayj-lin-lb website]$ sudo vi index.html
[sudo] password for john:
[john@turayj-lin-lb website]$ cd images
[john@turayj-lin-lb images]$ ls
underconstruction.jpg
[john@turayj-lin-lb images]$ firefox /development/website/index.html
^CExiting due to channel error.
Exiting due to channel error.
Exiting due to channel error.
Exiting due to channel error.
Exiting due to channel error.
```

