File-System Museum Curator

```
vijayagagla@DESKTOP-FP4OP26:~$ sudo apt update && sudo apt install tree
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:4 https://download.docker.com/linux/ubuntu noble InRelease
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1404 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1693 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [71.5 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:12 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.9 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1510 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:18 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7316 B]
Get:19 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [10.5 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:21 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Fetched 5667 kB in 1s (5330 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
94 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  tree
0 upgraded, 1 newly installed, 0 to remove and 94 not upgraded.
Need to get 47.4 kB of archives.
After this operation, 111 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 tree amd64 2.1.1-2ubuntu3.24.04.2 [47.4 kB]
Fetched 47.4 kB in 0s (502 kB/s)
Selecting previously unselected package tree.
(Reading database ... 41308 files and directories currently installed.)
Preparing to unpack .../tree_2.1.1-2ubuntu3.24.04.2_amd64.deb ...
Unpacking tree (2.1.1-2ubuntu3.24.04.2) ...
Setting up tree (2.1.1-2ubuntu3.24.04.2) ...
Processing triggers for man-db (2.12.0-4build2) ...
```

Tree Structure

```
vijayagagla@DESKTOP-FP4OP26:~$ mkdir -pv ~/Projects/{ancient/{egyptian,nubian},classical/greek,medieval/{britain,japan}}
mkdir: created directory '/home/vijayagagla/Projects'
mkdir: created directory '/home/vijayagagla/Projects/ancient'
mkdir: created directory '/home/vijayagagla/Projects/ancient/egyptian'
mkdir: created directory '/home/vijayagagla/Projects/ancient/nubian'
mkdir: created directory '/home/vijayagagla/Projects/classical'
mkdir: created directory '/home/vijayagagla/Projects/classical/greek'
mkdir: created directory '/home/vijayagagla/Projects/medieval'
mkdir: created directory '/home/vijayagagla/Projects/medieval/britain'
mkdir: created directory '/home/vijayagagla/Projects/medieval/japan'
```

Verify Your Work

```
ouch ~/Projects/classical/greek/further_research.txt
vijayagagla@DESKTOP-FP4OP26:~$ mv ~/Projects/classical ~/Projects/greco-roman
vijayagagla@DESKTOP-FP4OP26:~$ tree ~/Projects
home/vijayagagla/Projects
─ ancient
  ├─ egyptian
  └─ nubian
      └─ further_research.txt
─ greco-roman
  └─ greek
      └─ further_research.txt
─ medieval
  ├─ britain
  └─ japan

 directories, 2 files
vijayagagla@DESKTOP-FP4OP26:~$ _
```

```
 directories, 2 files
vijayagagla@DESKTOP-FP4OP26:~$ ls -l ~/Projects/ancient/nubian | grep further
-rw-r--r-- 1 vijayagagla vijayagagla 0 Jan 13 14:30 further_research.txt
vijayagagla@DESKTOP-FP4OP26:~$ ls -l ~/Projects/greco-roman/greek | grep further
-rw-r--r-- 1 vijayagagla vijayagagla 0 Jan 13 14:30 further_research.txt
vijayagagla@DESKTOP-FP4OP26:~$
```

```
vijayagagla@DESKTOP-FP4OP26:~$ tree ~/Projects
/home/vijayagagla/Projects
├── ancient
│   ├── egyptian
│   └── nubian
│       └── further_research.txt
├── greco-roman
│   └── greek
│       └── further_research.txt
├── medieval
│   ├── britain
│   └── japan
└── renaissance
    ├── germany
    └── italy
```