

TECH UIDE













unix final project



TECHUIDE
ECOMMERCE

Project Structure

TechUIDE-UNIX-Admin-System/

	└─		.git/	# Version Control
	└─		assets/	# Static Resources
	└─	└─	 LOGO.png	# Brand Identity
	└─		modules/	# Core Functionality
	└─	└─	 permissions_links.sh	
	└─	└─	 create_files_dirs.sh	
	└─	└─	 manage_files.sh	
	└─	└─	 compression_patterns.sh	
	└─	└─	 project_architecture.sh	
	└─		main.sh	# Entry Point
	└─		README.md	# Documentation
	└─		LICENSE	# Legal Information

Main.sh

Menu Structure

```
=== USER MENU ===
```

1. View Project Structure
2. File Management
3. Compression & Search
4. Create/Reset Structure
5. Permissions & Links
6. Exit

← Admin only

← Admin only

- Acts as a gateway by welcoming and authenticating users.
- Serves as a control center by displaying a menu and directing user selections to the correct modules.
- Integrates modules by loading other specialized scripts as needed to perform different tasks.



**Outputs of the main project
program.**



create_files_dir.sh

- Option 4 is the "Create/Reset Structure" functionality that generates a complete e-commerce file system with realistic data. It's the foundation builder of the TechUIDE system.

Property	Value
File Name	create_files_dirs.sh
Size	4.7KB
Lines of Code	201
Purpose	E-commerce File Structure Generator
Access Level	Admin Only



Generated Structure

```
tech_uide/
├── products/
│   ├── electronics/
│   │   ├── laptop.txt
│   │   ├── keyboard.txt
│   │   └── mouse.txt
│   ├── clothing/
│   │   ├── tshirt.txt
│   │   ├── hoodie.txt
│   │   └── cap.txt
│   └── books/
│       ├── unix_guide.txt
│       ├── python_handbook.txt
│       └── git_essentials.txt
├── inventory/
│   └── warehouse_status.txt
├── sales/
│   └── daily/
│       └── sales_2025-06-19.txt
├── reports/
│   └── financial/
│       └── Q1_2025_report.txt
└── employees/
    ├── maria.txt
    └── pedro.txt
```

View Project Structure

- Option 1 is the "View Project Structure" functionality that generates the complete structure of the system with its directories and folders. Structure of the TechUIDE system.

```
== MARIA MENU ==
1. View Project Structure
2. File Management
3. Compression & Search
6. Exit
Choose option: 1
== PROJECT ARCHITECTURE ==
Root directory: /home/kaliuser/Descargas/unix_final_project/tech_uide
Current working directory: /home/kaliuser/Descargas/unix_final_project

== DIRECTORY TREE ==
/home/kaliuser/Descargas/unix_final_project/tech_uide
├── employees
│   ├── maria.txt
│   └── pedro.txt
├── inventory
│   └── warehouse_status.txt
├── products
│   ├── books
│   │   ├── git_essentials.txt
│   │   ├── python_handbook.txt
│   │   └── unix_guide.txt
│   ├── clothing
│   │   ├── cap.txt
│   │   ├── hoodie.txt
│   │   └── tshirt.txt
│   └── electronics
│       └── keyboard.txt
```

File Management

- Option 2 is the "File Management"
The File Management module provides essential tools for handling files and directories within the tech_uide system. It allows users to create, delete, move, and rename files or folders, helping simulate common administrative tasks in a UNIX environment. The module also supports interactive navigation through directory structures to perform operations easily. It enhances the user experience by offering practical file handling in a structured, menu-driven format..

```
== ADMIN MENU ==
1. View Project Structure
2. File Management
3. Compression & Search
4. Create/Reset Structure
5. Permissions & Links
6. Exit
Choose option: 2
== FILE MANAGEMENT ==
1. Read File
2. Write to File
3. Move/Rename File
4. List Directory
5. Create New File
6. Copy File
7. Delete File
8. Back to Main Menu
Choose option: █
```

Compression and Search

- Option 3 is the "Compression and Search" functionality that generates menu with multiples options of compress and search. Compression and search of the TechUIDE system.

```
≡ MARIA MENU ≡
1. View Project Structure
2. File Management
3. Compression & Search
6. Exit
Choose option: 3
≡ COMPRESSION & SEARCH ≡
1. Create TAR Archive
2. Create GZIP Archive
3. Create ZIP Archive
4. Extract Archive
5. Search by Pattern
6. Search by Content
7. Back to Main Menu

Choose option: █
```


Permissions and Links

- Option 5 This is the “Permissions and Links” feature.

It generates a menu with multiple permissions and links options for viewing and creating permissions and links in the TechUIDE system.

```
== ADMIN MENU ==
1. View Project Structure
2. File Management
3. Compression & Search
4. Create/Reset Structure
5. Permissions & Links
6. Exit
Choose option: 5
== PERMISSIONS & LINKS ==
1. View Permissions
2. Set File Permissions
3. Set Directory Permissions
4. Create Symbolic Link
5. Create Hard Link
6. View Links
7. Back to Main Menu
Choose option: █
```

Exit

- Option 6 This is the “Exit” function.
It generates the maria (employee) system exit.
Exit in the TechUIDE system.

```
== MARIA MENU ==  
1. View Project Structure  
2. File Management  
3. Compression & Search  
6. Exit  
Choose option: 6  
Goodbye!  
  
(kaliuser@kali)-[~/Descargas/unix_final_project]  
$
```



Thank you