Day2_Project_Folder_Setup_Script_EN

Mini-lab: Project Folder Setup Script

Automate the creation of a folder and file structure for a new project.

Project structure

```
my_test_project
|----configs
|----logs
|----README.md
|----scripts
```

Steps

- 1. Create bash script setup_project.sh.
- 2. Accept project name as an argument (\$1).
- 3. Create folders scripts, configs, logs.
- 4. Create empty README.md В корне проекта. / in the project root.
- 5. Display success message.

- **if** condition.
- [...] built-in command test.
- z "\$1" checks if the variable \$1 is an **empty string**.
- If it is empty enter then.
- echo prints an instruction on how to run the script.
- \$0 the name of the current script (/setup_project.sh).
- exit 1 exit with error code 1.
- End of condition fi.
- Save the first argument passed at startup into the variable PROJECT_NAME.
- mkdir create a directory.
- p create parent directories.
- {scripts,configs,logs} bash **brace expansion** will create **three** subdirectories inside \$PROJECT_NAME.
- Creates an empty file README.md in the project folder.
- Prints a message that everything completed successfully.

Useful

- \$0 the name of the script itself.
- \$1 the first argument, \$2 the second.
- Quotes around s1 are required so the script doesn't break if the variable is empty or contains spaces.

Practice

- 1. Create file setup_project.sh и вставь код.
- 2. Make it executable:

chmod +x setup_project.sh

3. Run:

./setup_project.sh my_test_project

4. Check the created structure:

tree my_test_project

leprecha@Ubuntu-DevOps:~\$ tree my_test_project
my_test_project

| —configs | |
|-----------------------|--|
| logs | |
| —README.md | |
| └─scripts | |
| | |
| 3 directories, 1 file | |
| | |