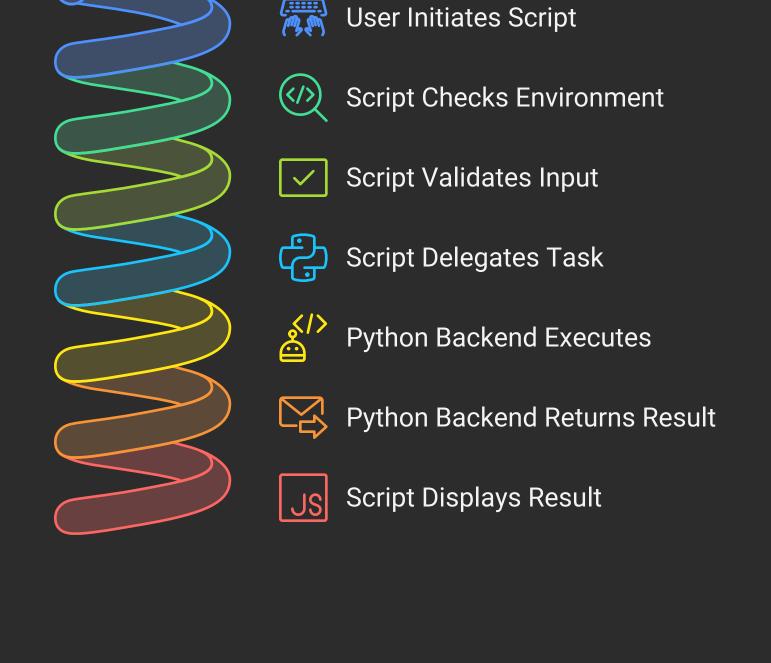
aitalk Bash Script Documentation

This document provides a comprehensive overview of the aitalk Bash script, which serves as a command-line interface (CLI) wrapper for the aitalk Python project. The script facilitates user interaction with various features of the project, including project creation, command explanation, chat functionality, git summary, and file summarization. It ensures that the correct Python environment is utilized and validates user input before delegating tasks to the Python backend.

aitalk Bash Script Process



#!/bin/bash

TS Script Structure and Functionality

1. Shebang

```
• Specifies that the script should be run using the Bash shell.
2. Environment Variables
```

AITALK_PATH="\$HOME/Desktop/linuxProjectAItalk/aitalk.py"

VENV_PYTHON="\$HOME/Desktop/linuxProjectAItalk/.venv/bin/python"

```
• AITALK_PATH: Absolute path to the main Python script (aitalk.py) for the project.
• VENV_PYTHON: Path to the Python interpreter inside the project's virtual
  environment.
```

- 3. Dependency Check if [[! -x "\$VENV_PYTHON"]]; then echo "X Python virtual environment not found or not set up at
- \$VENV PYTHON" echo "Please run: python3 -m venv .venv && source .venv/bin/activate && pip install -r requirements.txt"

```
exit 1
   fi
   • Checks if the Python virtual environment exists and is executable.
    • If not, prints an error and instructions to set up the environment, then exits.
4. Command Parsing and Dispatch
The script uses a series of if/elif/else statements to parse the first argument ($1) and
dispatch the appropriate command.
```

a. Create Project

"\$VENV_PYTHON" "\$AITALK_PATH" --create-project "\$@"

if [["\$1" == "--create-project"]]; then

"\$VENV_PYTHON" "\$AITALK_PATH" "\$1"

elif [["\$1" == "--git-summary"]]; then

elif [["\$1" == "--summarise"]]; then

if [[-z "\$PROMPT" || -z "\$FILE"]]; then

"\$VENV_PYTHON" "\$AITALK_PATH" --git-summary

script with the remaining arguments. #### b. Explain Last X Commands elif [["\$1" =~ --explain-[0-9]+\$]]; then

• If the first argument is --create-project, it shifts the arguments and calls the Python

• If the first argument matches --explain-X (where X is a number), it passes the argument to the Python script.

c. Chat Mode

d. Git Summary

```
elif [[ "$1" == "--chat" ]]; then
    "$VENV_PYTHON" "$AITALK_PATH" --chat
 • If the first argument is --chat, it launches the chat mode.
```

e. Summarise File

• If the first argument is --git-summary, it runs the git summary feature.

echo "X Usage: aitalk --summarise \"<prompt>\" <file>" exit 1

fi

PROMPT="\$2"

FILE="\$3"

```
if [[ ! -f "$FILE" ]]; then
            echo "X File not found: $FILE"
            exit 1
       fi
       "$VENV_PYTHON" "$AITALK_PATH" --summarise "$PROMPT" "$FILE"
   • If the first argument is --summarise, it expects a prompt and a file path.
   • Validates that both are provided and that the file exists.
   • If valid, calls the Python script with the prompt and file.
#### f. Help
  elif [[ "$1" == "--help" ]]; then
      echo "Usage:"
      echo " aitalk --create-project \"make a react app\""
```

aitalk --chat" aitalk --help" echo " exit 0

• If the first argument is --help, prints usage instructions and exits.

echo " aitalk --summarise \"summarise this file\" file.txt"

Invalid usage."

echo "Run: aitalk --help"

echo " aitalk --explain-5"

echo " aitalk --git-summary"

Setup

g. Fallback (Invalid Usage)

echo "X

exit 1

else

fi

Shebang

Check

Check Virtual

Environment

Ensures the Python

Handle Errors

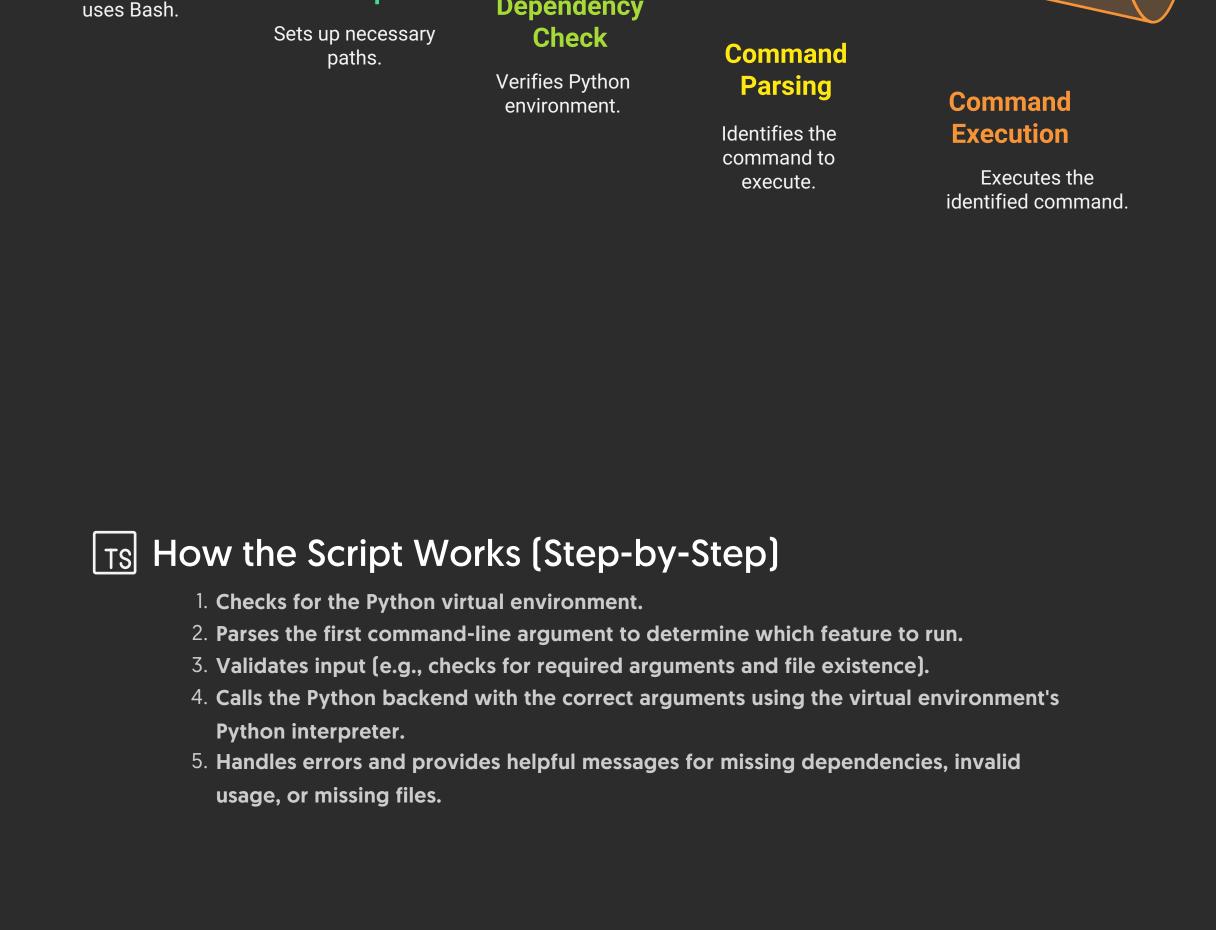
Provides messages for

issues like missing files.

environment is ready.

```
• If none of the above conditions are met, prints an error and usage hint.
                      Script Execution Flow
```

Environment Dependency



Bash Script Execution Cycle

2

Parse Command-

Line Argument

Determines the feature to run.

Call Python

Executes the Python

Validate Input

Checks for required

arguments and files.

script with arguments.

Backend

Supported Commands • --create-project "<description>": Create a new project with the given description. • --explain-X: Explain the last X commands (where X is a number). --git-summary: Summarize the current git repository. • --summarise "rompt>" file.txt: Summarize the given file with a custom prompt. • --chat: Start an interactive chat session. • --help: Show usage instructions. Which command should be executed? **Create Project** Creates a new project with a description. **Explain Commands** Explains the last X commands.

Git Summary

Summarize File

Start Chat

Show Help

Run Script

Executes the script with

required dependencies.

3

Summarizes the current git repository.

Summarizes a file with a custom prompt.

Initiates an interactive chat session.

Displays usage instructions.

Script Maintenance Cycle Activate Virtual

• Keep the script updated if you add new features to your Python backend.

• Always activate your virtual environment and install dependencies before running

• Use the provided commands as shown in the help output.

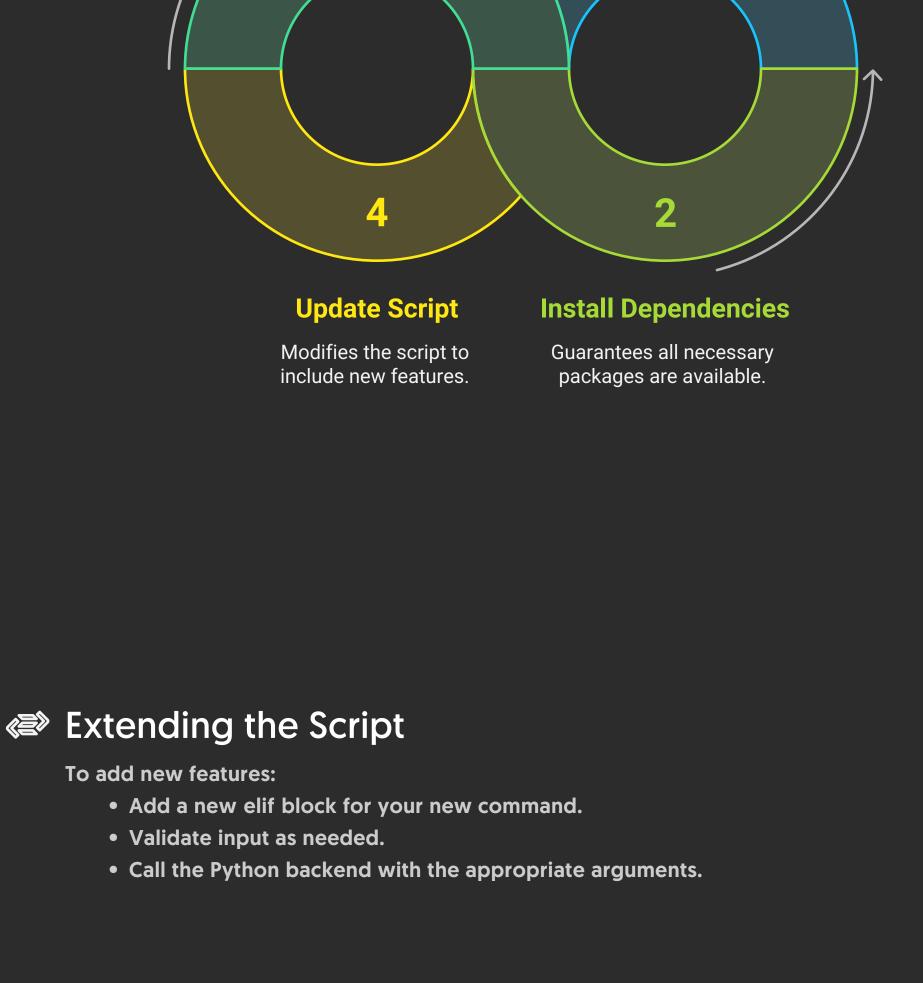
Environment

Ensures dependencies are

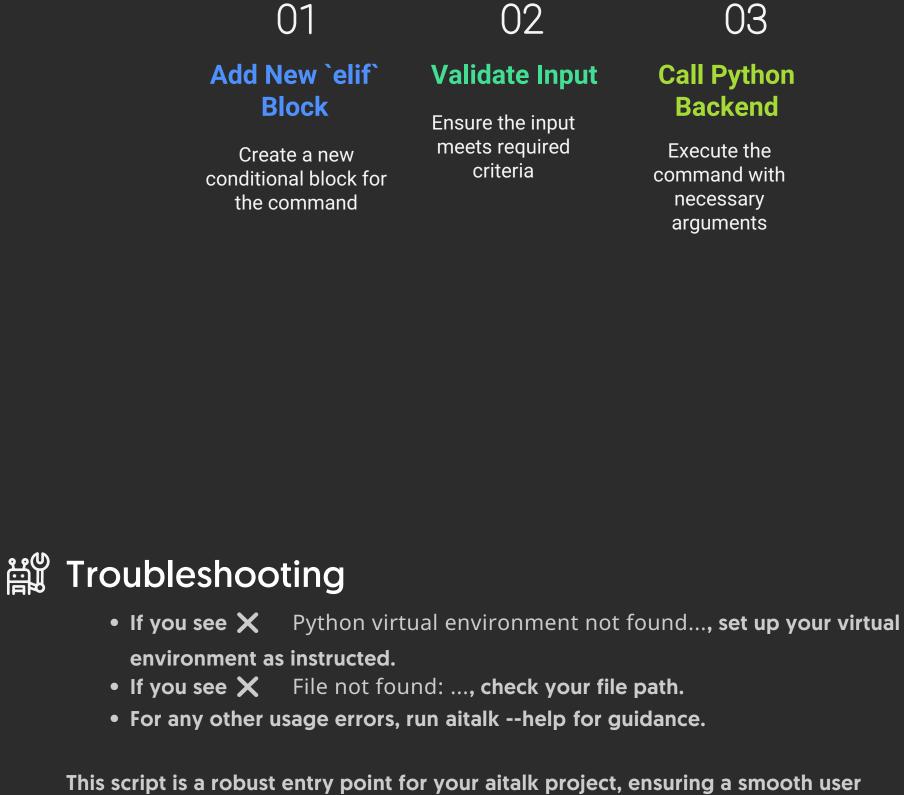
isolated and managed.

Best Practices

the script.



Adding New Features to a System



experience and reliable backend integration.

other usage errors.

Ensure the Python virtual environment

is correctly set up to avoid initial

errors.

errors.

Use the `aitalk --help` command for guidance on Verify the file path to resolve 'File not found'

Steps to Resolve Aitalk Errors