

TermiTools – A GUI- Based Linux System Administration Tool

A mini project focused on simplifying Linux tasks

Presented by: Praveen Kumar



Abstract

TermiTools is a user-friendly Linux tool built with Bash scripting and Zenity. It simplifies system tasks like checking disk usage, uptime, firewall status, logged-in users, and running services through a graphical menu. It eliminates complex terminal commands and logs all output for later use.



Problem Statement

Most Linux system tasks require command-line knowledge, which is a barrier for beginners. Students and non-technical users struggle with commands for checking services, disk usage, or running scans. TermiTools solves this with a simple GUI.

Project Objective

1

Visual Linux Tool

Create a tool using Bash + Zenity.

2

Simplify Monitoring

Enable menu-based interaction for system checks.

3

Real-time Output

Display results in popups and save to log files.

Scope



Platform

Linux (Ubuntu, Kali, Debian-based)



Built With

Bash + Zenity



Supported Tasks

Uptime, Disk Usage, Logged-in Users, Firewall,
Nmap scan, Service status



Expandable

Designed for ease-of-use and future expansion.

Tools & Technologies Used



Bash

Script logic



Zenity

GUI creation



UFW

Firewall status



Nmap

Port scanning



Systemctl

Service manager

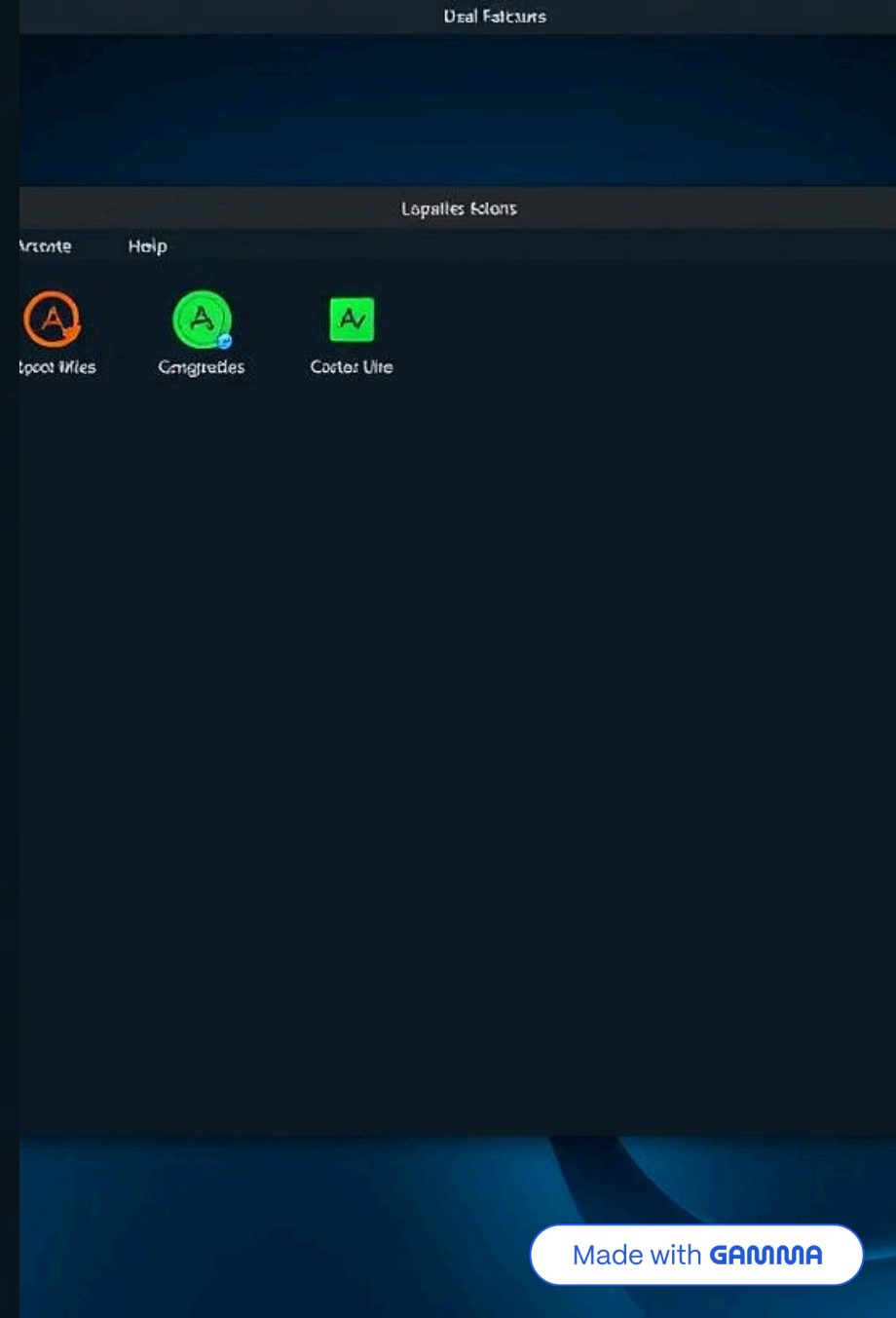


Logger

Log file generation

Key Features

- Zenity GUI for task selection
- One-click system checks
- Output displayed in GUI and saved
- Beginner-friendly
- No terminal skills required
- Lightweight and portable script



Project Deliverables

Core Components

- Full Bash script with GUI
- Working Linux tool

Documentation & Presentation

- Log file generation
- Project documentation
- This presentation

Conclusion

TermiTools replaces traditional Linux terminal commands with a visual experience, making system administration simple, clean, and accessible for beginners. Designed to be lightweight and expandable, it can be improved with alerts, cron jobs, or new GUI features.

Thank you