UNIX-Based Notification Script - Report

Project Overview

This report presents a project titled Notification and Event Reminder System (NOTIFY) built using UNIX shell scripting.

Abstract:

The NOTIFY project is a Bash-based system designed to automate scheduling and sending event notifications via email. It supports HTML-based emails, date/time validation, and cron job automation to deliver timely reminders. Events are set up by users and automatically scheduled two days before their occurrence. Users receive confirmations and daily reminders via email.

Key Features:

- Input validation for email, date, and time

- Automated scheduling using cron jobs

- Sendmail integration for HTML formatted emails

- Dynamic script generation and cleanup

- Portable and efficient Bash implementation

Technologies Used:

- Bash scripting

- cron

- sendmail

- date/time utilities

- mktemp for temporary script creation

Use Cases:

- Event reminder setup for personal or professional use

- Server-side job completion alerts

- Automated scheduling via terminal

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Conclusion:

NOTIFY is a modular and practical Bash solution demonstrating automation, scripting, and scheduling in UNIX environments. Future enhancements can include multi-channel notifications (SMS, Telegram), recurring event support, and GUI-based interfaces.