**Sprint 1 – Task 560**

**Backing up Frontend Files with a Shell Script**

I was given a task as part of our sprint to create a script that backs up frontend files (like HTML, CSS, and JS) every 12 hours and keeps a log of these backups.

First, I cloned our private GitHub repository using my personal access token. After successfully cloning it, I explored the project folder and made sure everything was in place.

Then, I created a shell script called backup\_frontend.sh. This script collects all the frontend files, compresses them into a .tar.gz archive with the current date and time in the filename, and saves it in a backup folder. It also logs each backup in a log file with a timestamp, so we can track when backups happened.

I tested the script from both the Windows and WSL terminals. There were some permission and path issues at first, but I fixed them by adjusting the file paths properly.

Using the Task Scheduler I created task which automates the process and rigging its properties, I made the task run every 12 hours for a day.

Once it worked fine, I committed the script to Git.

Below is the shell script named as backup\_frontend.sh

#!/bin/bash

# configuration

SOURCE\_DIR="/c/Users/afnan/college-event-planner/College-Event-Planner"

BACKUP\_DIR="/c/Users/afnan/frontend\_backups"

LOG\_FILE="/c/Users/afnan/frontend\_backup.log"

# creating backup

mkdir -p "$BACKUP\_DIR"

# timestamp for backup

TIMESTAMP=$(date "+%Y-%m-%d\_%H-%M")

BACKUP\_FILE="$BACKUP\_DIR/frontend\_backup\_$TIMESTAMP.tar.gz"

# backing up html files

tar -czf "$BACKUP\_FILE" -C "$SOURCE\_DIR" $(find "$SOURCE\_DIR" -maxdepth 1 -name "\*.html" -exec basename {} \;)

# shows log succes

echo "[$(date)] Backup created: $BACKUP\_FILE" >> "$LOG\_FILE"