Project 02

Project Description

Assuming a memory card or a USB is divided into at least 2 partitions, in which:

- One partition is formatted in FAT32 format.
- One partition is formatted in NTFS format.

The program should have a graphical user interface (GUI) and the following functions:

1. Automatically detect the format of each partition (FAT32 / NTFS).
2. Display the directory tree of each selected partition, allowing users to collapse or expand folders through interaction.
3. The folder or file name displayed in the directory tree is the full name.
4. When selecting any folder/file, read and display information for the user.
- Name (including extension if any)
- Attributes
- Date created
- Time created
- Total Size (file only)
5. Display the content of the selected file (text format only)

Requirements

- Deadline: **23h59 April 11, 2025.**
- The group should consist of up to 2 students.
- Each student must participate in coding.
- The project must be submitted by the deadline and formatted according to the requirements.
- The required information should be submitted as 2 separate files (**not zipped**):
    o "*MSSV1_MSSV2.zip*" file: compress the entire source code of the program, remove all irrelevant subfolders to reduce the size.
    o "*MSSV1_MSSV2.PDF*" file: project report.

- Content of the report:
  - o Group information.
  - o List the functions that the group has implemented, clearly indicating which functions were implemented according to the project description.
  - o Provide a detailed description of any content or source code that references external materials (including automatically generated text/code tools), along with proper citations of the referenced sources.
- Report format:
  - o Font: **Times New Roman**
  - o Font size: **13pt**
  - o Text alignment: **Justify**
  - o Line spacing: **1.15**
  - o Language: **Vietnamese / English is accepted**

Important Notes

- Each student is responsible for either the FAT32 or NTFS format and must thoroughly understand the related mechanisms and source code.
- The GUI and report sections are graded equally for all group members, but points will only be awarded if each student understands the FAT32/NTFS source code they are responsible for.
- The report and its formatting account for 10% of the total score for this lab.
- The project will be presented and defended according to the teacher's announcement.
- We do not accept any late submissions for any reason.
- We do not accept any copied work from any source without proper citation or a clear understanding of the material for any reason. Any violation of this policy will result in failure of the course.

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