Option 1: Directory Size Calculator Application

Create an application that simulates a file system with a hierarchical structure of directories (folders) containing files. Each file will have a size attribute.

The application should support basic versions of the following commands:

- cd (Change Directory)
- ls (list directory content)
- size (calculate the total size of the current directory, covering all the files in the directory and its subdirectories) (ideally, use recursion to calculate the size)

All data can be kept in memory or in a file. A database is not necessary.

Use any programming language to build the application. The application can be command-line-based; a UI is not necessary, but it can be included if preferred.

Submit your response by putting it in a public GitHub repo. The repo should include

1. Short presentation explaining:

- Your approach and design
- Key files and folders
- Process to run, test, and verify
- Include test data and seed data as required

2. Code for the application

Additionally, a hosted version of the app can also be submitted if preferred.

Option 2: Simple Calendar Application

Create an application for a simple Calendar and appointment management. The user should be able to create an event by specifying its title, start time, and end time. The application should prevent overlapping events.

The applications should support:

- Listing all events for the day
- List all remaining events for the day

- List all events for any specified day
- Provide the next available slot of a specified size for today or the specified day.

All data can be kept in memory or in a file. A database is not necessary.

Use any programming language to build the application. The application can be command-line-based; a UI is not necessary, but it can be included if preferred.

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