



pathlock

Home assignment

In the following document there are 2 tasks

1. Development of an Automation Pipeline
2. Development of a "refrigerator" app

Read the instructions carefully and should you have any questions, please contact

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In the following tasks we are looking to see your coding skills & using OOP design pattern

Development of an Automation Pipeline

Candidate needs to create a console app, where user will be presented with list of commands (mentioned below) and user can select the command of his choice. Based on selected command, user will be presented to enter input(s) and then final execution of command.

Implement a list of basic commands where each command can have different parameters:

- File Copy
 - Parameters: Source File, Destination File
- File Delete
 - Parameters: File Path
- Query Folder Files
 - Parameter: Folder Path
 - Output: print to console list of all files in folders
- Create Folder
 - Parameter: Folder Path , new Folder Name
- Download File
 - Parameters: Source url, output File
- Wait
 - Parameter: wait time in seconds
- Conditional Count Rows File:
 - Parameter: source file, string to search in rows
 - Output: Count of rows in the file that contain the search string



Development of a "refrigerator" app

The refrigerator will have the following functionalities to manage products.

Stage 1:

- Insert - inserting a product into the refrigerator while entering quantity
- Consumption - enter how much was used for example half a liter
- Current status - the refrigerator will keep a current quantity for each item.
- In addition, the system will keep a history of purchase / consumption.

Stage 2:

Adding support for expired products.

- each item will have an expiration date.
- The system will alert when there are items in the refrigerator that are about to expire.
- when the expiration date on the item will pass, the system will deduct its quantity from stock and show the user a message on the subject - to remove the item from the refrigerator