Educational Management System

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Overview :

The code uses a dictionary to store information about each institution, and a list to hold all of the dictionaries. It also includes a function to read and write the list of institutions to a file, so that the data can be persisted between runs of the program.

First, I have defined a data structure to store information about each educational institution. The dictionary has fields to store the name, location, type (e.g., primary, secondary, higher education), and any other relevant information about the institution.

Next, I have created a function to add a new educational institution to the list of institutions. This function accepts the relevant information about the institution as arguments, create a new instance of the class or dictionary, and add it to a list or database.

There is also a function to retrieve information about a specific educational institution. This function accepts the name or ID of the institution as an argument, and returns the information about the institution.

The code has a series of functions to add, retrieve, update, and delete educational institutions from the list. It also includes functions to read and write the list of institutions to a file.

Usage:

To use these functions, you would first call `add institution` to add a new institution to the list, passing in the relevant information as arguments. You could then call `get institution` to retrieve information about a specific institution, `update institution` to update the information about an institution, or `delete institution` to remove an institution from the list.

Note that this is just one possible way to implement this functionality, and you may need to modify the code to suit your specific requirements.

This is what the `institutions.json` file might look like after adding a few institutions :

[{ "name": "Institution A", "location": "City A", "type": "Primary", "other_info": "Other info" }, { "name": "Institution B", "location": "City B", "type": "Secondary", "other_info": "Other info" }, { "name": "Institution C", "location": "City C", "type": "Higher Education", "other_info": "Other info" }]

This `institutions.json` file contains a list of dictionaries, each representing a single educational institution. The dictionaries have fields for the name, location, type, and other relevant information about the institution.