ASSIGNMENT 1

Text-file Based System for Storing and Updating Teacher Records

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1. Abstract

The proposed application will determine the console-based application designed and developed in C# using Visual Studio. The application could be used to perform various operation on teachers record stored in a text file. In the front face the user could perform various operations for the records. In the back face the teachers record would get added, deleted, updated, etc.

2. Problem Statement

Write a program that will allow storing and updating teacher data using text files. Create a system to store, retrieve and update teacher data. The first working draft will be based on using text-files to process teacher data.

3. Software Requirements

- Windows OS
- Visual Studio
- Console Application template

4. Features Presented

4.1 Normal Flow

Initially console application window will pop up and displays many commands or instructions. It asks user to enter certain values to make further operations.

4.2 Adding teachers record

The menu driven program gives the user as option to add the teacher record to the file. If the user presses '1' as option, the window allows the user to enter details of teacher. Users need to enter the fields like ID, Name, Class and Section. The newly entered records will be appended to the previously created file.

4.3 Deleting teachers record

If the user enters '2' as option, user get the chance to delete the record in the text file. The window shows the appropriate message for each operation. The window shows unsuccessful message only when entered ID is not present or when users enter a greater number of records to delete than the number of records present in the file.

4.4 Updating teachers record

Sometime, there is a need to update the stored record. If user enters '3' as option window gives the chance to update record based on their IDs. If the specified ID was not present, then windows will show case the unsuccessful message. Else the user can update the record for new ID, Name, Class and Section.

4.5 Displaying teachers record

This feature will allow the user to display all the records present in text file. The user needs to enter '4' as an option to display the records.

4.6   Getting teachers record through ID

This will be a great feature for extraction of records for immediate purpose. The user needs to enter '5' for the option. This feature displays the teacher record for the specified ID number. If ID number is not present in the file, the window displays the unsuccessful message.

4.7   Exiting from the application

This feature allows the user to exit from the console window. This will not encourage for any further operations. The user needs to select '6' as option to use exit feature.

5. Conclusion

From the assignment, I could learn about console-based application. Console application being very much proficient for beginners, will help to have practical knowledge about C#.