

ASSESSMENT -1

TEXT FILE BASED SYSTEM FOR STORING AND UPDATING TEACHER RECORDS

Submitted by

Viha Agrawal

Software Engineer

Dover India Pvt. Ltd.

1. Abstract

The proposed system is a console-based application. Such a system can find its application in managing teacher's data in an educational institute. The user uses command line interface to interact with the application's backend. The whole project is written using C# language. Text file-based approach is used to store, update, delete and retrieve teacher's data.

2. Features of the application

The user can perform following tasks using this application:

- Add teacher's record
- Display records
- Save the data to text file
- Delete teacher's data
- Update data for an existing record
- Exit the application

3.1 Adding a new record

This is the first option in the menu which is popped up when the user runs the program in the CLI. When user has pressed 1, he is asked the number of records he

wants to enter. Then the user can feed data for teacher's id, name, class and section for the corresponding number of teachers.

3.2 Displaying a record

When the user opts for option 2, all the teacher's records which are saved in the text file are displayed on console window.

3.3 Updating record

User can update data for an existing record . User is asked for teacher's id and if the ID is matched, i.e., the id is present in the records, then he can choose to modify any one out of name, section and class at a time. Otherwise, an error saying ID not found is thrown in other alternative cases.

3.4 Deleting a record

The user has to select option 5 if he wishes to delete a record. The user will be asked for ID of the teacher and if found , the record for the same is deleted otherwise an error is thrown.

3.5 Saving data to text file.

The user can save data to a text file for future references by choosing option 3 in the CLI. Any data entered by the user for that run of the application is dumped to text file.

3.6 Exiting the application

The option 6 allows user to exit the application. But if the data entered by the user is not put to text file by choosing option 3 beforehand, the data is not saved to text file if the user simply exits the application. Thus, the option is visible on CLI as Exit without saving to warn the user .