



ASSESSMENT - 1

Text-file Based System for Storing and Updating Teacher Records



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1. Abstract

The proposed system is a console-based application which can be used to manage teacher's data in a school / college. The user can use command line interface to interact with the application's backend. Whole project is written with C# programming language. The backend uses text file-based approach to store, update and retrieve teacher's data.

2. Software requirements

- Visual Studio
- . Net Framework
- Windows OS

3. Features Provided

- Add a teacher's record
- Display Record
- Saving data to text file
- Update teacher's data
- Delete Teacher's data
- Exit without saving

3.1 Adding a teacher

Once the code is in execution environment, a command line interface will be popped up in front of the user. The user will have options as shown 3rd step. User can enter numerical value that will correspond to the respective option. Adding a new teacher will be prompted if user presses 1. User will have to enter number of records to be enter, ID, Name, Class, and Section for each entry.

3.2 Displaying a record

The user can enter 2 for displaying the contents of teacher record.

3.3 Updating a record

For updating a record, the user will have to enter Teacher's ID. If the ID is not present in the database, the CLI will throw an error saying **ID not present**. If the entered ID matches, then the user will get an option to change Name, Class and Section. The user can proceed with any one he wants to.

3.4 Deleting a record

The user will have to select/enter 5 for deleting a record. The user will have to provide teacher's ID. If the ID matches record, then that record will be deleted else the CLI will throw an error showing ID not found.

3.5 Saving and Exiting

The user has an option to save the data to text file and exit from interface by selecting 3rd option in CLI. It will work like the committing feature in database.

3.5 Exit without Saving

If something goes wrong with current transaction and the user doesn't want to save that data to text file. He can exit without saving. All the user transactions will be lost and the data inside the text file remains unaffected.