SIMPLI LEARN

"PHASE-1 PROJECT REPORT"

Agile, Git, and Basics of C# Programming

"TEXT FILE-BASED SYSTEM FOR STORING AND UPDATING RECORDS"

Submitted by

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AUG 22, 2020

ACKNOWLEDGEMENT

I express my sincere thanks and gratitude to the **SIMPLILEARN** platform for providing us an opportunity to learn all the required technologies, also grateful to our guide **Kiran** for the valuable guidance, encouragement and for extending all the possible help the learning phase.

DECLARATION

I Tejaswi.B employee of Dover India hereby declare that project is an original work done by me and not related to any other external works.

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Tejaswi.B

22nd August 2021

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REPORT CONTENTS:

1. Problem Statement
2. Problem Logic
3. Results

1. PROBLEM STATEMENT

Write a program that will allow storing and updating teacher data using text files.

Background of the problem statement:

Rainbow School is creating a system to store, retrieve and update teacher data. The first working draft will be based on using text-files to process teacher data.

You must use the following:

Visual Studio Windows Console Project

Class format:

The following fields will be stored for a teacher:

ID

Name

Class and section

2. PROBLEM LOGIC

Following is the logic implemented in the project:

1. Solving the logic using menu driven options like display all the teacher records, add teacher to the record, delete teacher record, update teacher record, get Teacher record using ID.

2. Data stored in the text file will be in the format of ID, Name, Subject, Section.

3. To get data from the file, we used File.ReadAllLines method to return the file data.

4. To Add the Details using command prompt, Get the details from the user and use File.AppendAllLines method to insert the data.

5. To Delete the particular data based on the entry, I have created a new List, wherein at the beginning, we ReadAllLines from the text file.

6. To Get the teacher data by ID, we do same operation as display details, but use ID to display the particular teacher data.

7. To Update the Data, create a new list and use ReadAllLines method and store that, if it matches the 1st entry, then ask for remaining details and overwrite them then use File.WriteAllLines.If doesn't match, then we put data to newly created list and use same method.

3. RESULTS WITH SCREENSHOTS

Snapshots of the working with explanation

Menu driven options:

1. Display all the teacher records

2. Add teacher to the record

3. Delete teacher record

4. Update teacher record

5. Get Teacher record using ID

3.1 DISPLAY ALL THE TEACHER RECORDS

   1. The Teacher data already present in the text file.
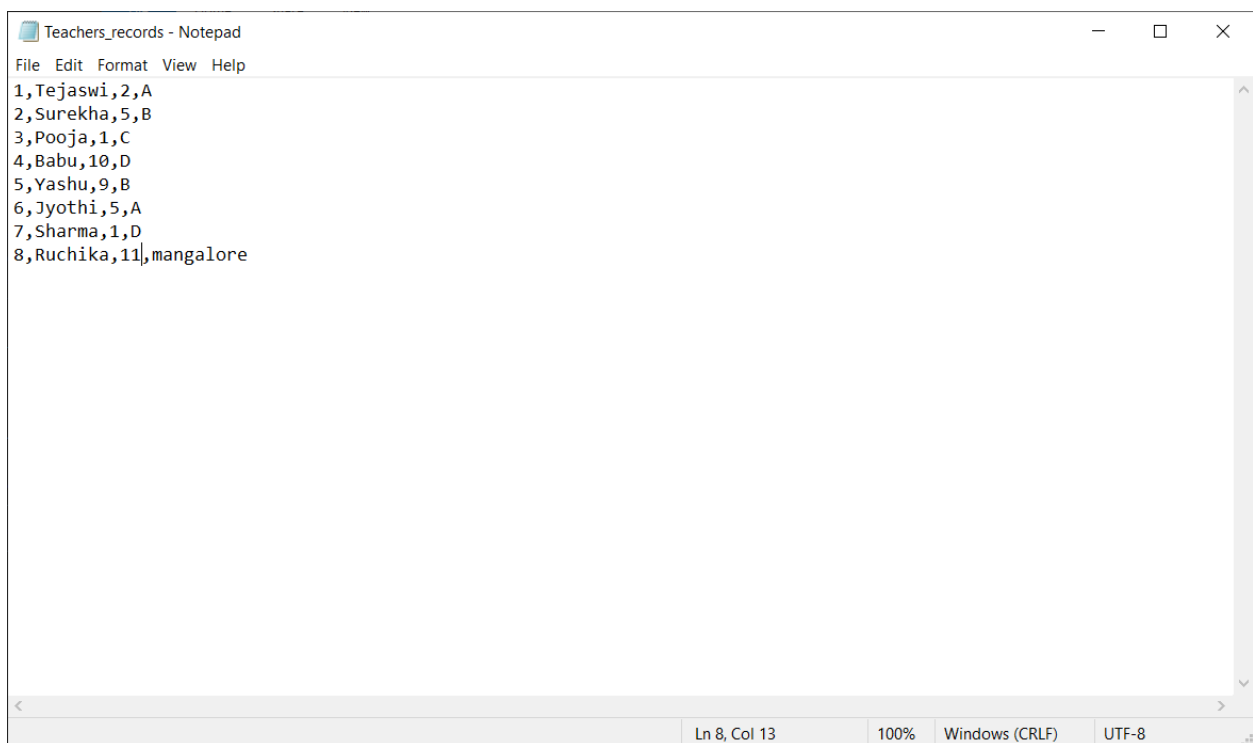

Figure 1: Data in the file

2. Displaying teacher record on the Console.

```
Welcome to Rainbow School!
Choose any option to perform the operation
1.Display all the teacher records
2.Add teacher to the record
3.Delete teacher record
4.Update teacher record
5.Get Teacher record using ID
1
=================================================
ID: 1, Name: Tejaswi, Class: 2, Section: A
=================================================
ID: 2, Name: Surekha, Class: 5, Section: B
=================================================
ID: 3, Name: Pooja, Class: 1, Section: C
=================================================
ID: 4, Name: Babu, Class: 10, Section: D
=================================================
ID: 5, Name: Yashu, Class: 9, Section: B
=================================================
ID: 6, Name: Jyothi, Class: 5, Section: A
=================================================
ID: 7, Name: Sharma, Class: 1, Section: D
=================================================
ID: 8, Name: Ruchika, Class: 11, Section: mangalore
```

Figure 2: Displaying teacher details

3.2 ADD TEACHER TO THE RECORD

1. Adding teacher through command prompt by giving teacher details.

```
Welcome to Rainbow School!
Choose any option to perform the operation
1.Display all the teacher records
2.Add teacher to the record
3.Delete teacher record
4.Update teacher record
5.Get Teacher record using ID
2
=================================================
ADD TEACHER DETAILS
=================================================
Enter Teacher ID:
9
Enter Teacher Name
sanju
Enter the Class
8
Enter the Section
E
=================================================
Teacher added successfully
=================================================
```

Figure 3: Adding teacher records

```
Teachers_records - Notepad
File  Edit  Format  View  Help
1,Tejaswi,2,A
2,Surekha,5,B
3,Pooja,1,C
4,Babu,10,D
5,Yashu,9,B
6,Jyothi,5,A
7,Sharma,1,D
8,Ruchika,11,mangalore
9,sanju,8,E
```
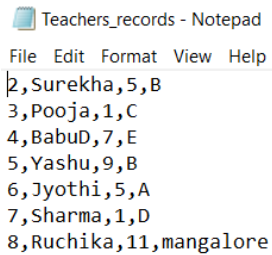
Figure 4: Data in text file after updating the records

3.3 DELETING THE TEACHER DATA BASED ON THE ID

1. Performing operations on deleting teacher data using teacher id

Figure 5: Deletion operation

Figure 6: Data after deleting the ID = 1

3.4. UPDATE TEACHER RECORD


```
Welcome to Rainbow School!
Choose any option to perform the operation
1.Display all the teacher records
2.Add teacher to the record
3.Delete teacher record
4.Update teacher record
5.Get Teacher record using ID
4
================================================
UPDATE TEACHER RECORD
================================================
Enter the Teacher ID to update the record
4
Enter Teacher details to update
================================================
Enter Teacher Name
BabuD
Enter the Class
7
Enter the Section
E
```

Figure 7: Update operation


```
Teachers_records - Notepad
File  Edit  Format  View  Help
2,Surekha,5,B
3,Pooja,1,C
4,BabuD,7,E
5,Yashu,9,B
6,Jyothi,5,A
7,Sharma,1,D
8,Ruchika,11,mangalore
```

Figure 8: Data after update operation

3.5. GET TEACHER RECORD USING ID

```
Welcome to Rainbow School!
Choose any option to perform the operation
1.Display all the teacher records
2.Add teacher to the record
3.Delete teacher record
4.Update teacher record
5.Get Teacher record using ID
5
Enter The ID of the Teacher to obtain the data
2
ID: 2, Name: Surekha, Class: 5, Section: B
```

Figure 8: Displaying teacher record using their ID

END OF PROJECT

THANKING YOU

Tejaswi.B

22nd August 2021