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Project for the Degree of B.Sc. Engineering  
**Note Book: BSMRSTU Teachers Record Database**

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Submitted By

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May, 2022



**Department of Computer Science & Engineering**

**Bangabandhu Sheikh Mujibur Rahman Science and  
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# **BSMRSTU Teachers Record Database**

Submitted to the Department of Computer Science and Engineering Bangabandhu Sheikh Mujibur Rahman Science and Technology University in partial fulfillment to the requirements for the degree of B.Sc. Engineering.

**Course Code: CSE 178**

**May, 2022**

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## DECLARATION

I am **Anik Kumar**, ID : 19CSE003 declare that the project consideration of degree of Bachelor of Computer Science & Engineering (CSE) embodies our own work with suggestion received during the work, which have been suitably acknowledge.

**Anik Kumar**

**ID: 19CSE003**

.....Anik Kumar.....

Signature

.....30/05/2022.....

Date

## PROJECT APPROVAL

I certify that this project “**BSMRSTU Teachers Record Database**” is the original work of the above named candidate and has been done under my supervision. To the best of my knowledge and belief, this work which embodies the work of candidates themselves, has been duly completed, fulfills the requirement of the ordinance relating to the first year of Bangabandhu Sheikh Mujibur Rahman Science and Technology University and is up to standard in respect of content, presentation and language for being referred to the examiner. The work has never been submitted anywhere. It's only submitted to Bangabandhu Sheikh Mujibur Rahman Science and Technology University.

**Project Supervisor:**

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Assistant Professor

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Date: .....

**PROJECT ON**  
**“BSMRSTU Teachers Record Database”**

## **ABSTRACT**

Progressions can be brought about in the overall system of education, when the concept of teacher management is identified in an appropriate manner. Teachers are the ones, who are impart knowledge and information to the students in such a manner and ensure that their growth and development takes place in an operative manner and they are able to achieve their academic goals and objectives. The main areas that have been taken into consideration in teacher management are, factors of teacher management, teacher management styles, and structure of teacher appraisal. When teachers are dedicated and carry out their tasks and functions wholeheartedly towards the achievement of their personal and professional goals, then they need to remain updated in terms of utilization of modern and innovative teaching-learning methods, possess an approachable nature and an amiable attitude and ensure that they render an effective contribution towards making their students good citizens of the country, so they can promote well-being of their families and communities.

## ACKNOWLEDGEMENTS

Firstly I would like to express my sense of gratitude to my reverend teacher and supervisors **Md. Jamal Uddin**, Assistant Professor of Department of Computer Science & Engineering (CSE), Bangabandhu Sheikh Mujibur Rahman Science and Technology University. And for her untiring guidance, constant supervision, enthusiastic encouragement, sagacious advice and an effective surveillance throughout the entire period of my project and preparation of the manuscript. I greatly thank you. Wish to express my heart full thanks to all of my honorable teachers of the department of Computer Science and Engineering (CSE), Bangabandhu Sheikh Mujibur Rahman Science and Technology University.

Secondly I would like to thank my department senior brother **Tushar Sarkar** who helped me a lot in finalizing this project within a limited time frame.

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# CHAPTER-1

## Introduction

### 1.1 Overview:

Teachers record database program is a simple apps, which we can find teacher details, add teacher details and we can update their details. The teacher management system is an automated version of manual teacher Management System. BSMRSTU Teachers record Database is software which is helpful for students as well as the university authorities. In the current system all the activities are done manually. It is very time consuming and costly. BSMRSTU Teachers record Database deals with the various activities related to the teachers. In the Software we can register as a user and user has of two types, teacher and administrator. Administrator has the power to add new user and can edit and delete a user. A teacher can register as user and can add edit and delete his profile. The administrator can add edit and delete marks for the teacher.

### 1.2 Aim of the project:

Every Students can be quickly find any teacher and help from him. If you want the title of teachers you can change or view. You can find teachers phone numbers, Email or you can change it if you want. Every department will be able to find teachers. If a new teacher join in our university then add in his data. If A teacher transfer or retiring then we can delete his data from file. University teachers can count.

### 1.3 Purpose:

1. You will be given 7 tasks of output and if you want you will be able to choose the task.
2. First task, if a new teacher join in our university then click2
3. Next, if searching a teacher in our university then click3
4. Type 3, view to all teacher list in our university.Type 4 and 5 to update data and delete Data respectively.
5. Then, Type 6 to see a list of all faculty and departmental teachers.
6. Finally, this program exits when you type 7.

## **1.4 Features:**

My Project name is BSMRSTU Teachers record database. My project has seven phase. If we can want find any teachers in our university however we can do it. Education is one of the invaluable resources of human life. The light of the sun illuminates the whole earth. The diversity of the earth is visible to us. In the same way, the knowledge gained from education enlightens our mind and life. Education guides people from the darkness of ignorance to the light. Helps to make him a beautiful, refined and ideal human being.

## **1.5 Summary:**

Teaching is a great profession. It can be said that teaching is the most respected and dignified profession in the world. Teachers are called craftsmen. But as easy as it is to read a building with bricks, sand, cement, it feels like building a real man. An artisan makes his thing with the utmost care, sincerity and patience. Similarly, a teacher has to complete his work with utmost care, sincerity and patience keeping in mind the mood of the students, likes and dislikes and ability to accept. Only then can he be considered as a real teacher. I hope users find this project very useful. You can find any teacher in our university, be able to collect information. All students will enjoy all the facilities.

## **CHAPTER-2**

### **Related Works**

This chapter shows the state of the art projects about different online service procedure in different fields. Government of Bangladesh has announced vision: 2021 as goal for achieving Digital Bangladesh. The goal concept is simple: establishing digital platform in every possible sphere of life. So, many initiatives have already been taken. The government also encourages the initiatives in digital startups. Many government services are now available in digital platform besides traditional manual procedure. Digital platform includes: by online. People are greatly benefited by these. Centralized control of any educational institution can be performed this type of website. There are several projects like the BSMRSTU teachers record database. Some of similar project are given in below:

- Hospitals Patient Record Database
- Bank Record System
- Student Management System
- Blood Donation Information Store System
- The Voting System
- Hostel Management System
- Hall Management System
- Medical Store Management
- Food Order Management
- Billing System

## CHAPTER-3

### **Design and Implementation**

#### **3.1 System Implementation:**

Implementation is the stage in the project where the theoretical design is turned into a working system. The implementation phase constructs, installs and operates the new system. The most crucial stage in achieving a new successful system is that it will work efficiently and effectively. There are several activities involved while implementing a new project. They are

- ☐ End user training
- ☐ End user Education
- ☐ Training on the application software
- ☐ System Design
- ☐ Parallel Run and To New System
- ☐ Post implementation Review

#### **End user Training:**

The successful implementation of the new system will purely upon the involvement of the officers working in that department. The officers will be imparted the necessary training on the new technology.

#### **End User Education:**

The education of the end user start after the implementation and testing is over. When the system is found to be more difficult to understand and complex, more effort is put to educate the end used to make them aware of the system, giving them lectures about the new system and providing them necessary documents and materials about how the system can do this.

#### **Training of application software:**

After providing the necessary basic training on the computer awareness, the users will have to be trained upon the new system such as the screen flows and screen design type of help on the screen, type of errors while entering the data, the corresponding validation check at each entry and the way to correct the data entered. It should then cover information needed by the specific user or group to use the system.

### Post Implementation View:

The department is planning a method to know the states of the past implementation process. For that regular meeting will be arranged by the concerned officers about the implementation problem and success.

### 3.2 Sample Code Using two file:

2.1 figure, this is my code and using two file, files name is 'f' and 'fi'. And using structure where put in the teachers name, surname or designation, department name, phone number and Email.

```
1 #include<iostream>
2 #include<string.h>
3 #include<stdio.h>
4 #include<conio.h>
5 
6 using namespace std;
7 struct teacher
8 {
9     char name[100];
10    char surname[100];
11    char department[100];
12    char phn[100];
13    char email[100];
14 };
15 int main()
16 {
17     //cout<<" ";
18     FILE *f,*fi;
19     struct teacher e;
20     f =fopen("text.txt","r++");
21     if (f==NULL)
22     {
23         f= fopen("text.txt","w+");
24         if (f==NULL)
25         {
26             return 0;
27         }
28     }
29     int size=sizeof(e);
30     while(1) {
31         cout << "\n\t\t\t\t\t\t===== BSMRSTU TEACHER RECORD DATABASE =====";
32         cout << "\n\n";
33         cout << "\n \t\t\t\t\t\t\t 1. Join New teacher";
34         cout << "\n \t\t\t\t\t\t\t 2. Search Teacher";
35         cout << "\n \t\t\t\t\t\t\t 3. All Teacher of BSMRSTU (View List Records)";
36         cout << "\n \t\t\t\t\t\t\t 4. Change Records Or Promotion (Data Update)";
37         cout << "\n \t\t\t\t\t\t\t 5. Transfar Teacher/ Retiring Teacher (Delete Data)";
38 
39         cout << "\n \t\t\t\t\t\t\t 6. Teacherlist in Department ";
```

### 3.2 Figure

### 3.3 When code is run:

```
===== BSMRSTU TEACHER RECORD DATABASE =====  
  
1. Join New teacher  
2. Search Teacher  
3. All Teacher of BSMRSTU (View List Records)  
4. Change Records Or Promotion (Data Update)  
5. Transfar Teacher/ Retiring Teacher (Delete Data)  
6. Teacherlist in Department  
7. Exit Program  
  
Select Your Choice :=>
```

[3.3 Figure](#)

### 3.4 List of Faculty:

```
1. Engineering Faculty  
2. Science Faculty  
3. Life Science Faculty  
4. Business Studies Faculty  
5. Social Science Faculty  
6. Humanities Faculty  
7. Law Faculty  
8. Agriculture Faculty  
  
Select Faculty =>
```

[3.4 Figure](#)

### 3.5 List of department:

```
1. Computer Science And Engineering Department
2. Electrical and Electronic Engineering Department
3. Aplied Chemistry And Chemical Engineering Department
4. Civil Engineering Department
5. Architrihure Department
6. Food And Agro process Engineering Department

Select Department =>
```

[3.5 Figure](#)

### 3.6 When exit the program:

```
Exit program

Process returned 0 (0x0)   execution time : 207.599 s
Press any key to continue.
```

[3.6 Figure](#)

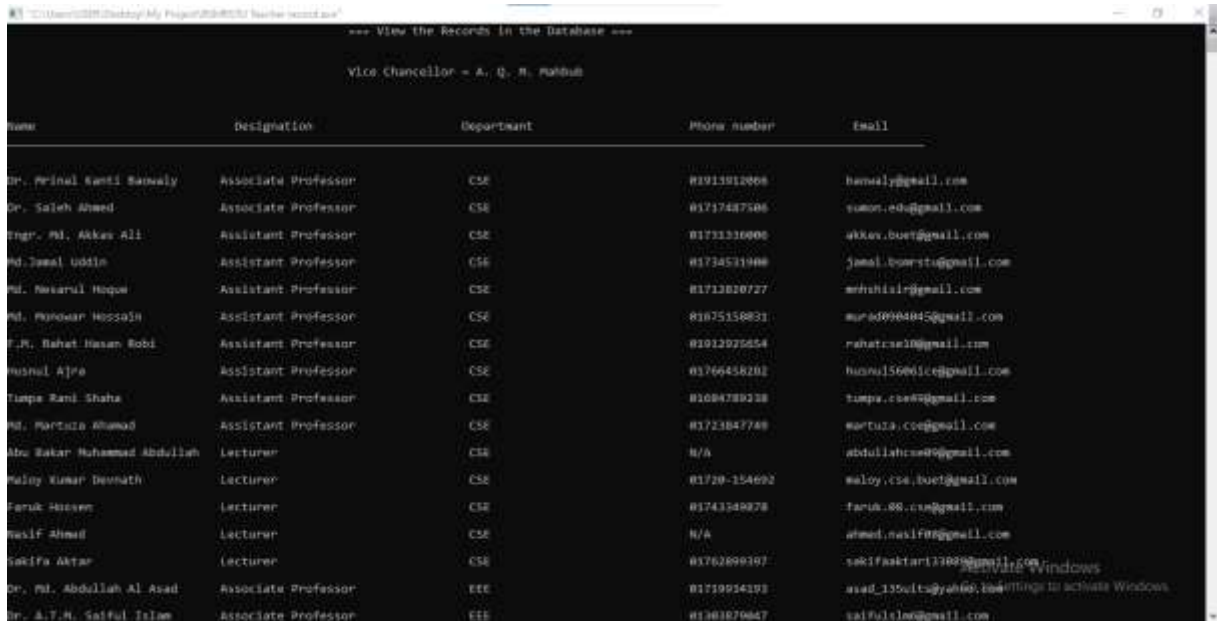


## CHAPTER-4

### Result and Evaluation

#### 4.1 Output result:

List of output teachers at all department in our university. It is a sample figure in my code.(Figure 4.1)

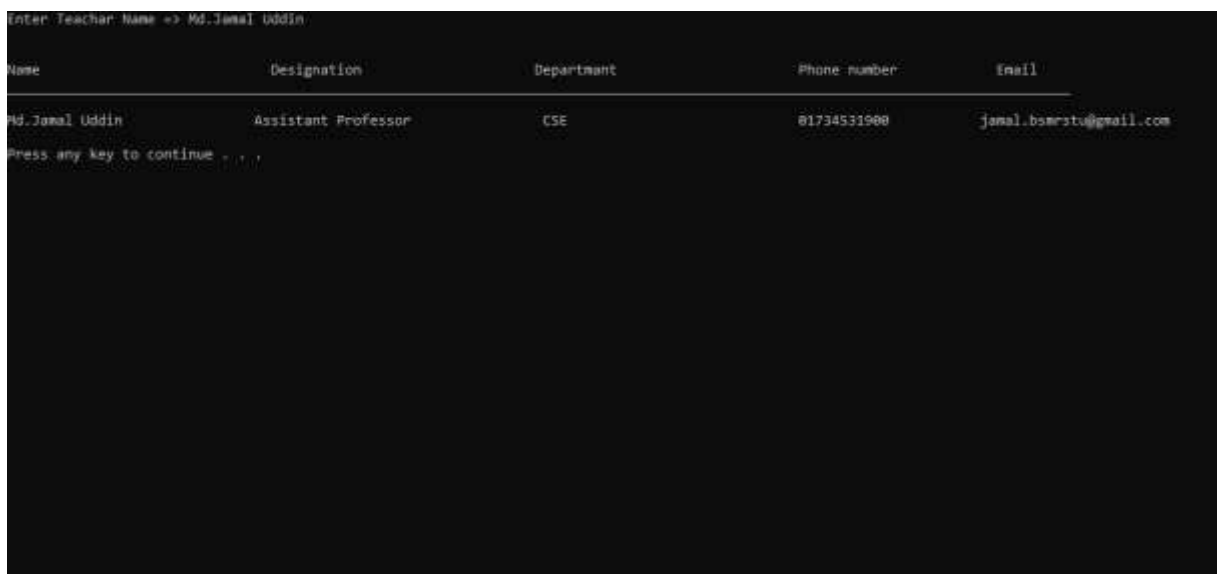


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4.1 Figure

#### 4.2 Search Teacher:

When we search a teacher then their details show. if searching teacher not store file then showing “Data not founded”. (Figure 4.2)



Name	Designation	Department	Phone number	Email
Md. Jamal Uddin	Assistant Professor	CSE	01734531908	jamal.bsmrstu@gmail.com

Press any key to continue . . .

4.2 Figure

## **CHAPTER-5**

### **Conclusion**

#### **5.1 Future Look:**

It needs to be made more workable in the form of applications and there is a desire to create separate versions for mobile and PC and that will be. I will add the graphic later. If you work harder, you will have to upload it to the Play Store separately for Windows, Linux, Mac.

#### **4.3 Conclusion:**

Bringing about improvements in the system of education is one of the crucial areas that need to be focused upon to lead to effective growth and development of the individuals, communities and nation as a whole. Teachers render an indispensable contribution towards this area, hence, teacher management is regarded as a crucial concept. When the individuals aspire to obtain teaching jobs, then they dedicate themselves towards inculcating the necessary qualifications and abilities among themselves that are required to perform their job duties well. Teacher management includes all the policies, strategies and approaches that are required to achieve professional and personal goals. The factors of teacher management are, teaching-learning methods, leadership, rights of teachers, professional development, decision making skills, education management, teachers choice of workplace, responsibilities of the teachers, appropriate working environment and maintenance of good terms and relationships with other individuals. The teacher management styles have been classified into five categories. These are, authoritative, authoritarian, permissive, indulgent and contingent. Another aspect that has been taken into account is the structure of teacher appraisal. The various components are, appraisal cycle, selection and training of appraisers, areas and criteria of appraisal, appraisal methods, appraisal report, grievance redresser procedures and follow-up stage. The recruitment and selection of teachers takes place on the basis of their educational qualifications, skills and experience. But with advancements taking place in the system of education, they are required to upgrade their knowledge by attending workshops and training programs. Therefore, it can be stated that teachers are required to generate awareness and upgrade their skills and abilities regarding their job duties. Teacher management is primarily concerned with the management of knowledge, skills, abilities, personality traits and overall performance of job duties that are focused towards the achievement of desired goals and objectives. Furthermore, the teachers need to identify the flaws and inconsistencies and bring about improvements.

**Reference:**

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2. [https://www.youtube.com/results?search\\_query=recoad+datadase+project+c%2B%2B](https://www.youtube.com/results?search_query=recoad+datadase+project+c%2B%2B)
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