# A PROJECT REPORT ON

# "Student Registration System"

Under the Guidance of
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<div align="right">-Aaryan Adhikari, Anuj Chapagain,<br>Mhedi Thapa, Milan Sapkota</div>

## PREFACE

This project "STUDENT REGISTRATION SYSTEM" allows us to keep the records of the students in a systematic way. We can register, update, edit and search for the records of the students. This software can be used in the schools and colleges to store the student's record. This is the initial version of the software which can be later modified and new features as per the need can easily be added. Throughout the development of this project, our main focus has been on making an easy and smooth user interface. In the end, we would like to thank our computer teacher and all the friends who supported us in preparing this project.

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## 1) Project Proposal

Student Registration System is a project designed by a group of class 10. This is the software that is completely designed using QBASIC programming language. We have used the concept of modular programming and file handling in this project. This software can be used in schools as well as colleges in order to manage the records of the student. This can save a lot of time and hardwork. In the digital era, everything is being done digitally. With the same motive, we have developed this project. Our main objective is to contribute to this digitization process. We want every school and every school, college and other institute to use digital tools.

## 2) Project Plan

The work is divided among all the members of the group. There are a lot of things to do in this project like designing, coding, documentation and the presentation. We are four in this group and have divided the work equally and completed the work with full dedication. We all have a laptop to run the qbasic using which this software project is designed.

## 3) Requirements Specification

This software project can be installed and operated easily in every computer. A Qbasic interpreter is required to run this project. A person having basic knowledge of the computer can easily handle this project. New record registration, searching of the records, updating and deleting the records and viewing all the records at a time are the salient features of this software project. This is the beginning stage of this software project which can be later modified as per the need.

## 4) System Design Documents

**Algorithm** for the major operation of this software project:

Step 1: Start
Step 3: Want to continue?
        If yes go to step 4
        If no go to step 7
Step 4: Display the menu
Step 5: Ask user's choice
Step 6: Check the choice number
        If choice = 1 then run the procedure "register"
        If choice = 2 then run the procedure "search"
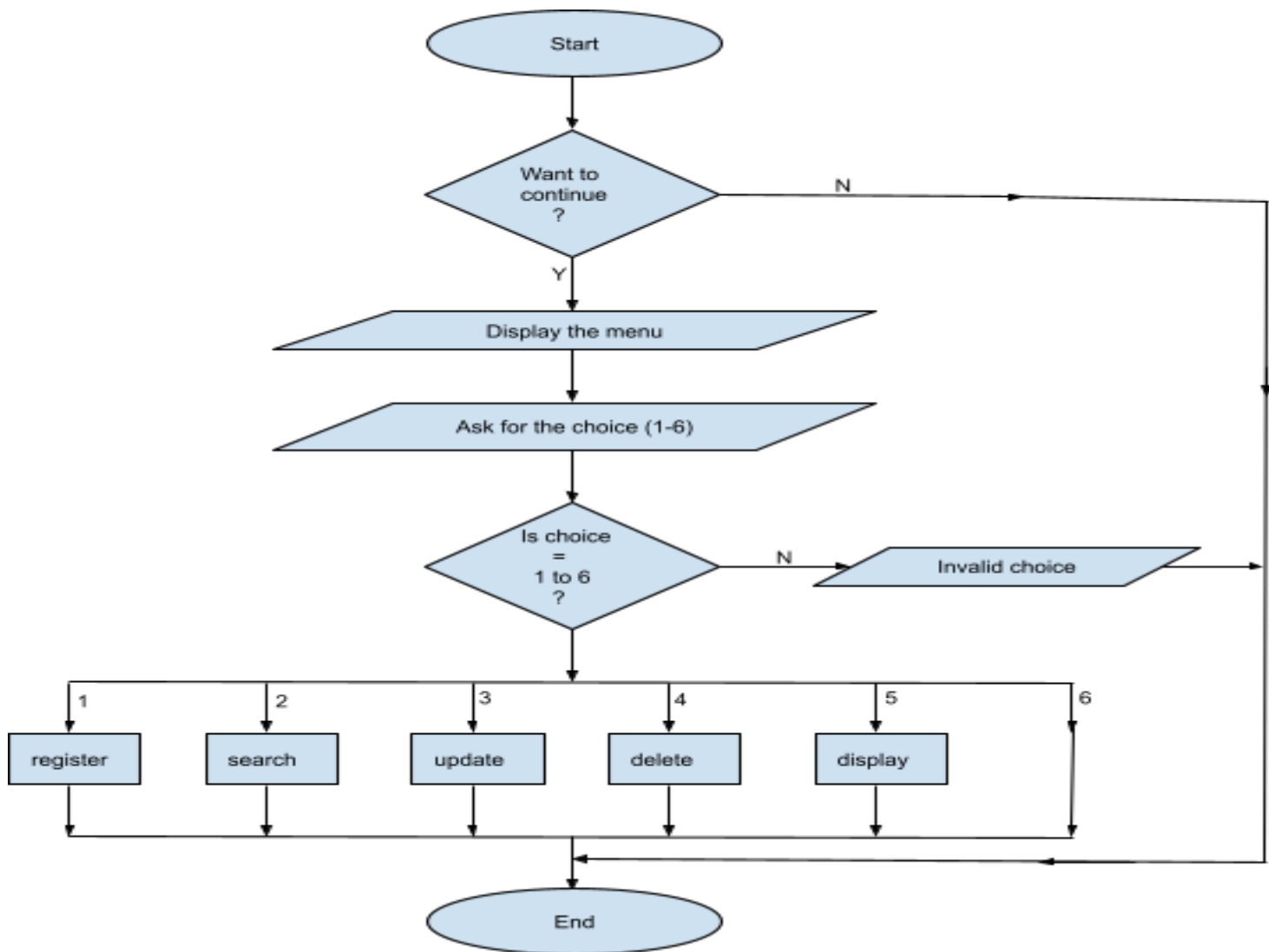        If choice = 3 then run the procedure "update"

If choice = 4 then run the procedure "delete"
If choice = 5 then run the procedure "display"
If choice = 6 then go to step 7
Else Display "Invalid choice"
Step 7: Stop

**Flowchart:**



## 5) Code Documentation
DECLARE SUB menu ()
DECLARE SUB register ()
DECLARE SUB search ()
DECLARE SUB update ()
DECLARE SUB delete ()
DECLARE SUB display ()

```
Cls
Rem student registration system...
Call menu
End

Sub menu
    Cls
    Print Tab(20); "*******************************"
    Print Tab(20); "*        STUDENT           *"
    Print Tab(20); "*   REGISTRATION SYSTEM     *"
    Print Tab(20); "*******************************"
    Print
    Print Tab(10); "The menu is displayed below..."
    Print Tab(10); "1. Register a new student"
    Print Tab(10); "2. Search a record of a student"
    Print Tab(10); "3. Update a record of a student"
    Print Tab(10); "4. Delete a record of a student"
    Print Tab(10); "5. View all the records"
    Print Tab(10); "6. Exit the program"
    Print
    Input "Enter  your choice (1-6)"; mch
    Select Case mch
        Case 1
            Call register
        Case 2
            Call search
        Case 3
            Call update
        Case 4
            Call delete
        Case 5
            Call display
        Case 6
            Print "The software is closed..."
        Case Else
            Print "Invalid choice..."
    End Select
End Sub

Sub register
    rmore:
    Open "main.txt" For Append As #1
    Cls
    Print Tab(20); "*******************************"
    Print Tab(20); "*        STUDENT           *"
    Print Tab(20); "*   REGISTRATION SYSTEM     *"
    Print Tab(20); "*******************************"
    Print
    Print "You can register the student's record from here..."
    Print "*********************************************"
```

```
      Print
      Input "Enter the full name of the student:", name$
      Input "Enter the class s/he is studying:", class
      Input "Enter the student's address:", add$
      Input "Enter the student's parent's name:", pname$
      Input "Enter the contact number:", cont$
      Write #1, name$, class, add$, pname$, cont$
      Print "The student is registered successfully..."
      Print
      Input "Do you want to store more (y/n)"; rch$
      If LCase$(rch$) = "y" Then
         Close #1
         GoTo rmore
      ElseIf LCase$(rch$) = "n" Then
         Close #1
         Call menu
      Else
         Print "Invalid choice.."
      End If
      Close #1
End Sub

Sub search
   smore:
   syes = 0
   Open "main.txt" For Input As #2
   Cls
   Print Tab(20); "******************************"
   Print Tab(20); "*         STUDENT            *"
   Print Tab(20); "*    REGISTRATION SYSTEM     *"
   Print Tab(20); "******************************"
   Print
   Print "You can search the record of the students by their name from here..."
   Print "*********************************************************************"
   Print
   Input "Enter the name of the student: "; sn$
   While Not EOF(2)
      Input #2, n$, c, a$, p$, c$
      If UCase$(sn$) = UCase$(n$) Then
         Print "***********************************"
         Print "Name: "; n$
         Print "Class: "; c
         Print "Address: "; a$
         Print "Parents: "; p$
         Print "Contact: "; c$
         Print "***********************************"
         Print
         syes = 1
      End If
   Wend
```

```
         If syes <> 1 Then Print "No Such Record found..."
         Print
         Print "*************************************"
         Print
         Input "Do you want to search more (y/n)"; sch$
         If LCase$(sch$) = "y" Then
             Close #2
             GoTo smore
         ElseIf LCase$(sch$) = "n" Then
             Close #2
             Call menu
         Else
             Print "Invalid choice.."
         End If
         Close #2
     End Sub

     Sub update
         Umore:
         uyes=0
         Open "main.txt" For Input As #3
         Open "upd.txt" For Output As #33
         Cls
         Print Tab(20); "******************************"
         Print Tab(20); "*         STUDENT            *"
         Print Tab(20); "*   REGISTRATION SYSTEM      *"
         Print Tab(20); "******************************"
         Print
         Print "You can update the record of the students from here..."
         Print "****************************************************"
         Input "Enter the name of the student whose record you want to update: ", un$
         While Not EOF(3)
             Input #3, nn$, cc, aa$, pp$, cc$
             If UCase$(un$) = UCase$(nn$) Then
                 Print "************************************"
                 Print "Name: "; nn$
                 Print "Class: "; cc
                 Print "Address: "; aa$
                 Print "Parents: "; pp$
                 Print "Contact: "; cc$
                 Print "************************************"
                 Input "Is this the record you want to update (y/n)"; uch$
                 Print
                 If LCase$(uch$) = "y" Then
                     uyes = 1
                     Print "************************************"
                     Print "Enter the new information of the student..."
                     Input "Name: "; updn$
                     Input "Class: "; updc
                     Input "Address: "; upda$
```

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```basic
            Input "Parents: "; updp$
            Input "Contact: "; updc$
            Write #33, updn$, updc, upda$, updp$, updc$
            Print
            Print "The record is updated successfully..."
            Print
            un$ = ""
         Else
            Write #33, nn$, cc, aa$, pp$, cc$
         End If
      Else
         Write #33, nn$, cc, aa$, pp$, cc$
      End If
   Wend
   Close
   Kill "main.txt"
   Name "upd.txt" As "main.txt"
   If uyes <> 1 Then Print "No Such Record found..."
   Print "**************************************"
   Print
   Input "Do you want to update more (y/n)"; uch$
   If LCase$(uch$) = "y" Then
      GoTo umore
   ElseIf LCase$(uch$) = "n" Then
      Call menu
   Else
      Print "Invalid choice.."
   End If
End Sub

Sub delete
   dmore:
   dyes = 0
   Cls
   Open "main.txt" For Input As #4
   Open "del.txt" For Output As #44
   Print Tab(20); "******************************"
   Print Tab(20); "*          STUDENT           *"
   Print Tab(20); "*    REGISTRATION SYSTEM      *"
   Print Tab(20); "******************************"
   Print
   Print "You can delete the records of the student from here..."
   Print "****************************************************"
   Input "Enter the name of the student whose record you want to delete: "; dn$
   While Not EOF(4)
      Input #4, deln$, delc, dela$, delp$, delc$
      If LCase$(deln$) = LCase$(dn$) Then
         Print "************************************"
         Print "Name: "; deln$
         Print "Class: "; delc
```

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```
            Print "Address: "; dela$
            Print "Parents: "; delp$
            Print "Contact: "; delc$
            Print "**********************************"
            Input "Is this the record you want to delete (y/n)"; dch$
            Print
            If LCase$(dch$) = "y" Then
               dyes = 1
               Print "The record is deleted successfully..."
               dn$ = ""
            Else
               Write #44, deln$, delc, dela$, delp$, delc$
            End If
         Else
            Write #44, deln$, delc, dela$, delp$, delc$
         End If
      Wend
      If dyes <> 1 Then Print "No such record found..."
      Close #4, #44
      Kill "main.txt"
      Name "del.txt" As "main.txt"
      Print "****************************************"
      Print
      Input "Do you want to delete more (y/n)"; uch$
      If LCase$(uch$) = "y" Then
         GoTo dmore
      ElseIf LCase$(uch$) = "n" Then
         Call menu
      Else
         Print "Invalid choice.."
      End If
End Sub

Sub display
   Open "main.txt" For Input As #5
   Cls
   Print Tab(20); "******************************"
   Print Tab(20); "*        STUDENT           *"
   Print Tab(20); "*   REGISTRATION SYSTEM     *"
   Print Tab(20); "******************************"
   Print
   Print "All the records of the students are displayed below..."
   Print "*****************************************************"
   Print "NAME         CLASS        ADDRESS        PARENTS        CONTACT"
   Print
   "_____"
   While Not EOF(5)
      Input #5, dn$, dc, da$, dp$, dc$
      Print dn$, dc, da$, dp$, dc$
```

```
    Print
    "_____"
    Wend
    Close #5
    Print "***************************************"
    Print "After your work here..."
    Print
    Input "Do you want to go back (y/n)"; dch$
    If LCase$(dch$) = "y" Then
        Call menu
    ElseIf LCase$(dch$) = "n" Then
        Rem end
    Else
        Print "Invalid choice.."
    End If
End Sub
```

## 6) User Manuals

After loading the program, you can get the following screen.



Here are 6 options. You can choose them as required.
It is very simple to use this software. The interface of every menu is shown here

```
**************************************
*         STUDENT                    *
*    REGISTRATION SYSTEM             *
**************************************

You can search the record of the students by their name from here...
********************************************************************
Enter the name of the student: ? ram prasad
*******************************************
Name: Ram Prasad
Class:  10
Address: Chitwan
Parents: Harihar prasad
Contact: 9800000000
*******************************************


*******************************************

Do you want to search more (y/n)?
```

```
**************************************
*         STUDENT                    *
*    REGISTRATION SYSTEM             *
**************************************

You can delete the records of the student from here...
*************************************************************
Enter the name of the stuent whose record you want to delete: ? ram
*******************************************
Name: Ram
Class:  10
Address: chitwan
Parents: hari
Contact: 9898989898
*******************************************
Is this the record you want to delete (y/n)? y

The record is deleted successfully...
*******************************************

Do you want to delete more (y/n)?
```

```
**********************************************************************
Enter the name of the student whose record you want to update: ram prasad
*******************************************
Name: Ram Prasad
Class:  10
Address: Chitwan
Parents: Harihar prasad
Contact: 9800000000
*******************************************
Is this the record you want to update (y/n)? y

*******************************************
Enter the new information of the student...
Name: ? Ram
Class: ? 10
Address: ? chitwan
Parents: ? hari
Contact: ? 9898989898

The record is updated successfully...

*******************************************

Do you want to update more (y/n)?
```

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```
**********************************
*           STUDENT              *
*      REGISTRATION SYSTEM       *
**********************************

All the records of the students are displayed below...
***************************************************
NAME          CLASS        ADDRESS        PARENTS            CONTACT

ram           10           nepal          shyam          1234567890

sita          9            gitanagar      gita           9898989898

rahul sharma  8            parsa          shyam nath     9800000000

*********************************************
After your work here...

Do you want to go back (y/n)? _
```

```
**********************************
*           STUDENT              *
*      REGISTRATION SYSTEM       *
**********************************

    The menu is displayed below...
    1. Register a new student
    2. Search a record of a student
    3. Update a record of a student
    4. Delete a record of a student
    5. View all the records
    6. Exit the program

Enter  your choice (1-6)? 6
The software is closed...
```

## 7) Project Closure Report

After the successful completion of this project, we can ensure that this software can be used in schools, colleges and other universities to store the records of the students. We have tried to make it user friendly and easy to use by solving maximum problems. The code can be run through the qbasic interpreter and the software can be loaded. The user of this software just needs to type the data and press enter. We request to give only the expected data in the respectively.

Through this project, we got an opportunity to use all the concepts that we have read. During the development, we have faced a lot of problems and errors. With patience, we tried to understand the errors and solved them with the collective effort.