Informatics College Pokhara



<u>Application Development</u>

Coursework 1

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ABSTRACT

This project addresses the study and development of an WPF student registration management system using c# language. Windows Presentation Foundation(WPF) is a development framework used to create a desktop application. It is a part of the .NET framework. This project enable users, make an computerized registration system to manage student data.

Thus, this project studies some issues on how WPF application is build. This project will provide Decision Support System to manage student registration data. This app will assist in future development that would support a fully integrated system.

KEYWORD LIST

- C#
- Student management
- Student registration management
- WPF application
- XML

ACKNOWLEDGEMENTS

I am grateful to Informatics college Pokhara for providing me this opportunity to prove my academic capabilities in something more professional and practical. This honors project carried out in crunch time has taught me utterly necessary lessons as to how a WPF application is developed and how student management system project should be managed and handled. I am very thank full to my module leader Mr. Ishwor Sapkota for enduring my steep mistakes and shortcomings.

1. INTRODUCTION

As per the requirement of module's coursework, we have developed a student management system for an educational institution. The system is used to keep records of students. Student Management System is a software that is helpful for students as well as the school authorities.

In the current system all the activities are done manually. It is very time consuming and costly. Currently most of school, colleges, etc. uses manual system which is old fashioned. For changes, a digitalized system is required. After the success of system people are looking for it because of its easy record keeping and generating student report and also it help in analyze their business. Our Student Management System deals with the various activities related to the students.

1.1 Current Scenario

There are numerous Museum who keep record of their data in old traditional system which is Paper-Based System. In addition to that, there are some school and colleges with digital system but are well lacking the features which are needed for a school/college.

1.2 Proposed System

The proposed system is digitized system which is specially designed to overcome problem mentioned above. The system ensures security with the presence of student registration management section. Entry of data and display of data have been made easy with the presence of easy user-interface

password

2. Detail Instruction to run program

1) Step 1: setup username and password

As user start the program, the very first step in this program is to login to system. The program detects whether the user is new or not. The program displays username and password setup form for new user, once the user set username and password they need not need to set username and password again. To setup new password, system provides password confirmation field to enhance security. User can quit the program by clicking exit button. We can see the username and password setup form below in figure 1:

➡ ☐ ➡ Hot Reload available 〈

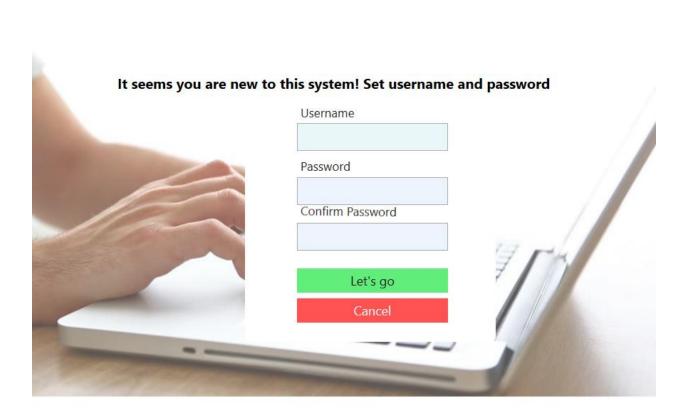


Figure 1: Start up window

X

2) Step 2: login to the system

After username and password setup, user needs to login to the system by entering username and password they created in setup window. If user forget username and password user can reset it by clicking 'forget password' button. The 'forget password' button opens new password setup window where user change username and password. User can quit the process by simply clicking exit button. The login window is shown below in figure 2 and password change window is shown in figure 3:



Figure 2: Login window

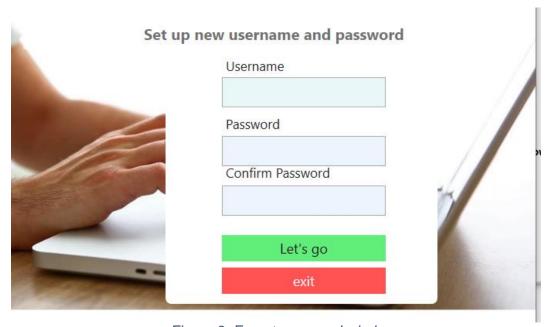


Figure 3: Forget password window

3) Step 3: Home Window

After login to the system program opens a new window which is home window of program which contains 5 buttons i.e. 'change password' button, 'register new student' button, 'view student report button', 'change password' button, 'logout' button and 'exit' button. Program home window is shown below in figure 4:



Figure 4: Home window

Let's discuss from the first, the if user wish to change their password they can click 'change password' button. 'change password' button opens new window to change password. Every time user change password user needs to login again to system. The password change window is shown below in figure 5:

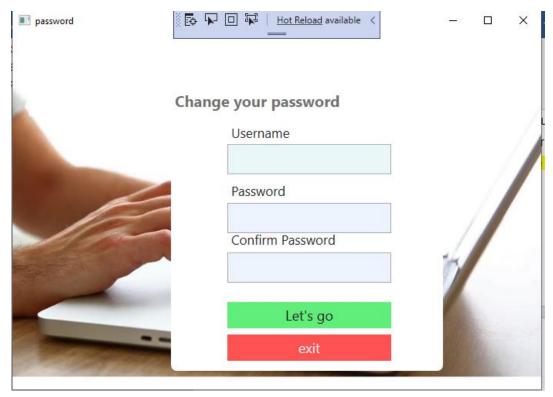


Figure 5: Password change window

4) Step 4: Register student

To register new student, user have to click 'Register Student' button. The button opens new window where two more option on register are provided. i.e. 'Register individual student' button and 'Register from existing file' button. If user wish to register individual student user can click 'Register Individual' and if user wish to register student data from existing file they can click 'Register From Existing File' button. The new window opens by clicking 'Register Student' button is shown below in figure 6:



Figure 6: Register student Window

5) Step 5: Register Individual Student

After clicking 'Register Individual Student' button system opens a new window, which contains all the necessary input fields to register student. System have all necessary validation like email format validation, integer validation e.t.c. user is unable to register until all these validation get succeed. Integer filed like student phone number, student id accepts only integer value. Email id of student should be entered properly with valid email format otherwise registration process can't be done. In order to choose program, user first needs to choose department. In every department change, faculty and program are automatically changed. User can't choose faculty before choosing department and can't choose program until choosing faculty. After choosing department user needs to click load button near faculty choose field which load the relative faculty according to selected department. After choosing faculty user needs to choose program, to see available program user needs to click load button near program choose field which load the relative program according to selected faculty. The program contains further input fields like

nationality, marital status and religion which are not mandatory if user don't want to enter, they can simply leave these fields blank. After all successful validation and mandatory input done user can click register button to go further process. And user can clear the the input fields by clicking 'Clear' button. The new student register window is shown below in figure 7:

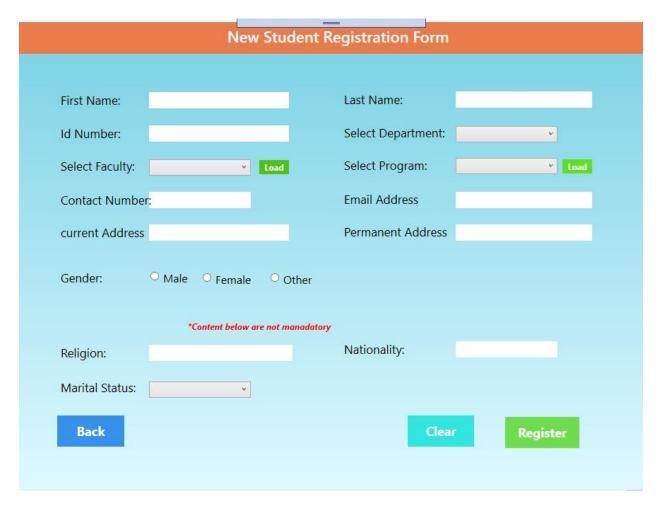


Figure 7: Student register window

After Clicking 'Register' button system opens 'registration confirmation' window, which is provided to avoid mistakes and to ensure that the user entered data is actually correct. If user finds entered data mistake, user can abort process by clicking 'Cancel' button. If all data are correct and user wish to register data, user can enter 'Register' button which

save student data in xml file. The student data confirmation window is shown below in figure 9:

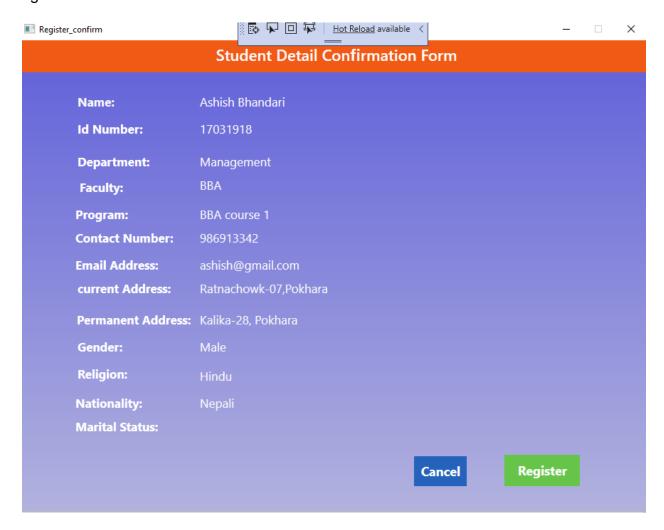


Figure 8:Student Data Confirmation Window

6) Step 6: Register From Existing File

To register student from existing file, user have to click "Register From Existing File' button. After clicking 'Register From Existing File' button system opens a new window, which contains file browse button, data preview panel, back button and register button. First user have to click on 'choose' button to browse the csv file. System accepts only csv file. After selecting csv file, system displays all it's data to provide data convince to user. If user wish to register all the student data, user can click 'Register All' button. And user can abort process by clicking 'cancel' button. The 'Register from existing file' window is shown below in figure 9:

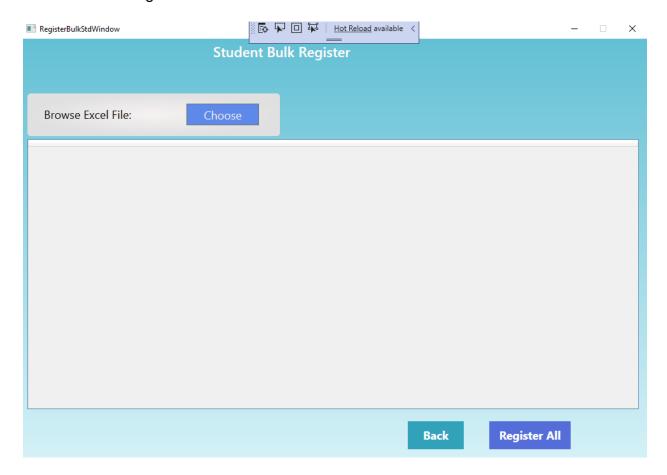


Figure 9: Register From Existing File Window

7) Step 7: View Report

To view registered student report, user have to click 'View Student Report' button. The button opens new window where three buttons are provided. That are 'View Weekly Student Registration Report' button, 'View Chart' button and 'View All Registered Student' button. If user wish to view weekly student registration report, user can click are 'View Weekly Student Registration Report' button if user wish to view graphical chart to view of weekly student registration data, user can click 'View Chart' button and if user wish to view all registered student data, user can click 'View All Registered Student' button. The 'View Report' window is shown below in figure 10:

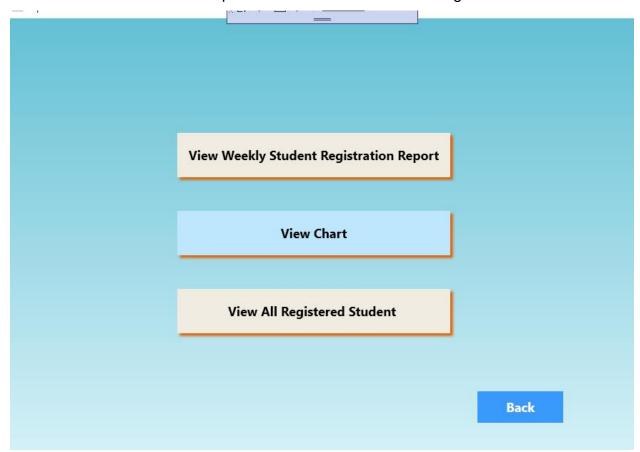


Figure 10: View Student Data Window

8) Step 7: View Weekly Student Registration Report

To view weekly student registration report, user have to click 'View Weekly Student Registration Report' button. The button opens new window where weekly student registered data are displayed. The 'View Weekly Student Registration Report' window is shown below in figure 11:

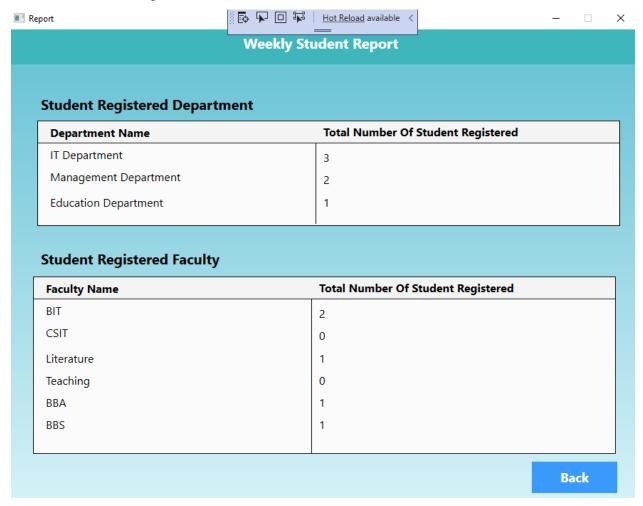


Figure 11: Weekly Student Registration Report

9) Step 9: View Chart

To view graphical student registration chart, user have to click 'View Chart' button. The button opens new window where weekly student registered data are displayed in graphical bar chart. The 'View Chart' window is shown below in figure 12:

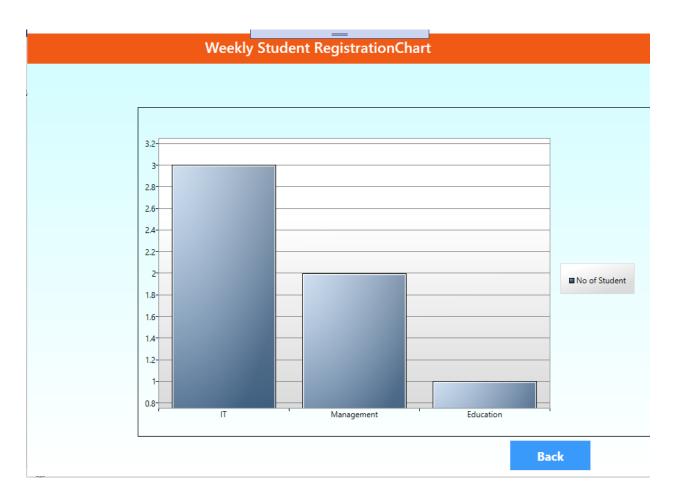


Figure 12: Graphical Chart

10) Step 10: View All Registered Student Data

To view all registered student data, user have to click 'View All Registered Student' button. The button opens new window where all registered student data are displayed in a tabular form. User can view data in ascending and descending order and can sort data by 'Name' and 'Registration Date'. The 'View All Registered Student' window is shown below in figure 12:

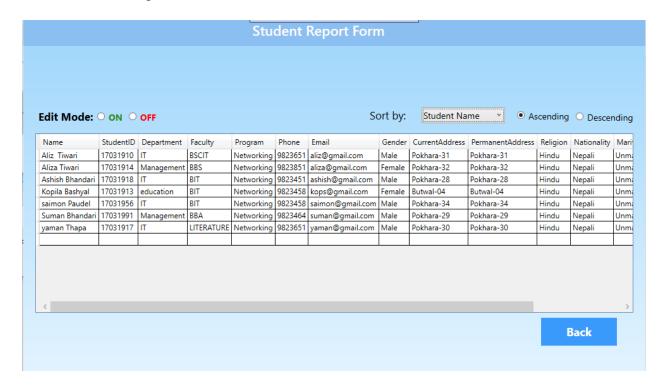


Figure 13: View All Student Data

3. Detailed description of the classes, properties and methods

3.1. Login class (LoginWindow.xaml.cs)

Methods	Description
Login_button	It is login button click listener, it is used to validate username password and redirect user to main window.
Exit_button	It is Exit button click listener, it is used to terminate the program.
Check_file	This method is used to find whether user is new or not.
Forget_pw	It is forget password button click listener, it is used to open new window to setup new username and password.

3.2. Password class (password.xaml.cs)

Methods	Description
register_button	It is register button click listener, it is used to store new username password of user.
Exit_button	It is Exit button click listener, it is used to terminate the Current Window.

3.3. Main window class (MainWindow.xaml.cs)

Methods	Description
register_student	It is 'register student' button click listener, it is used to open student registration window.
View_report	It is 'view report' button click listener, it is used to open view report window.
Logout_click	It is 'Log Out' button click listener, it is used to redirect user to login window.
Change_pw_click	It is 'Change Password' button click listener, it is used to redirect user to password setup window.
Exit_button	It is Exit button click listener, it is used to terminate the program.

3.4. Register Individual student window class (Register_student.xaml.cs)

Methods	Description
register_student	It is 'register student' button click listener, it is used to open student registration confirmation window.
departmentBox_SelectionChanged	It is used to handle change in department
dropdown_loader	It is used to load relative course and faculty according to department choose
validator	It is used to validate user input
passValue	It is used to pass user input data to another window
clear_btn	It is used to reset all the input fields
Exit_button	It is Exit button click listener, it is used to terminate the Current Window.

3.5. Register Confirmation window class (regConfirm.xaml.cs)

Methods	Description
register_button	It is 'register' button click listener, it is used to write student data in xml format.
cancel_button	It is 'cancel' button click listener, it is used to terminate the Current Window.

3.6. Register Bulk Data window class (registerBulkStd.xaml.cs)

Methods	Description
Save	It is used to write all csv data in xml file
fileChooseBtn_Click	It is used to browse csv file and display its data in datagrid
AddData	It is used to store all csv data in data structure
cancelBtn_Click	It is used to terminate current window

3.7. Weekly Student Report Window class (WeeklyReportWindow.xaml.cs)

Methods	Description
LoadData	It is used to load xml data and display it in datagrid
cancelBtn_Click	It is used to terminate current window

3.8. All Registered Student Report Window class (AllStudentWindow.xaml.cs)

Methods	Description
LoadData	It is used to load xml data and display it in datagrid
sortData_SelectionChanged	It is used to sort data by name and registration date
ascending_Checked	It is used to display data in ascending order
descending_Checked	It is used to display data in descending order
cancelBtn_Click	It is used to terminate current window

3.9. Graphical chart Window class (AllStudentWindow.xaml.cs)

Methods	Description
LoadData	It is used to load xml data and passing value to chart
cancelBtn_Click	It is used to terminate current window

4. Class Diagram

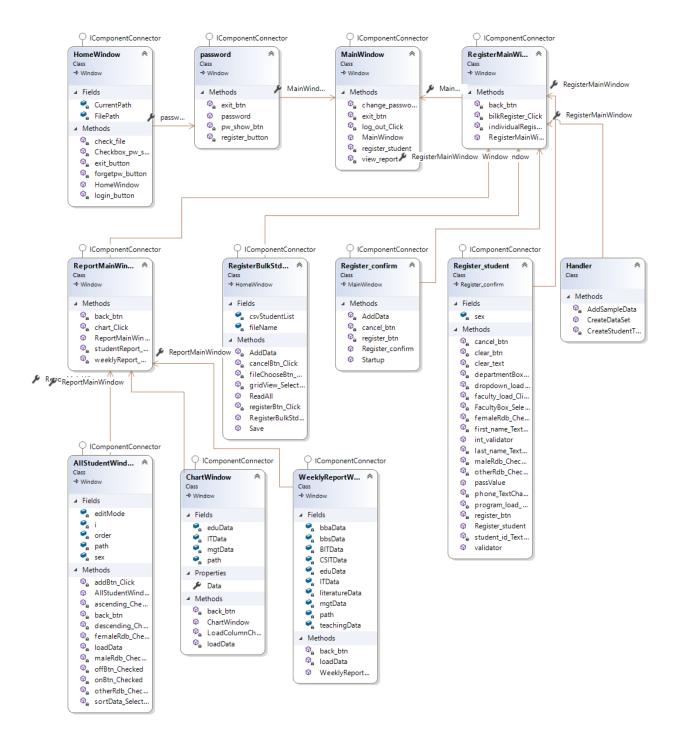


Figure 14:Class Diagram

5. System Architecture

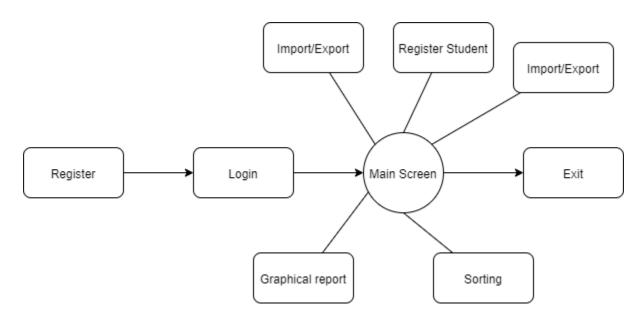


Figure 15: System Architecture

6. Flow Chart

6.1. Flow chart of Program setup

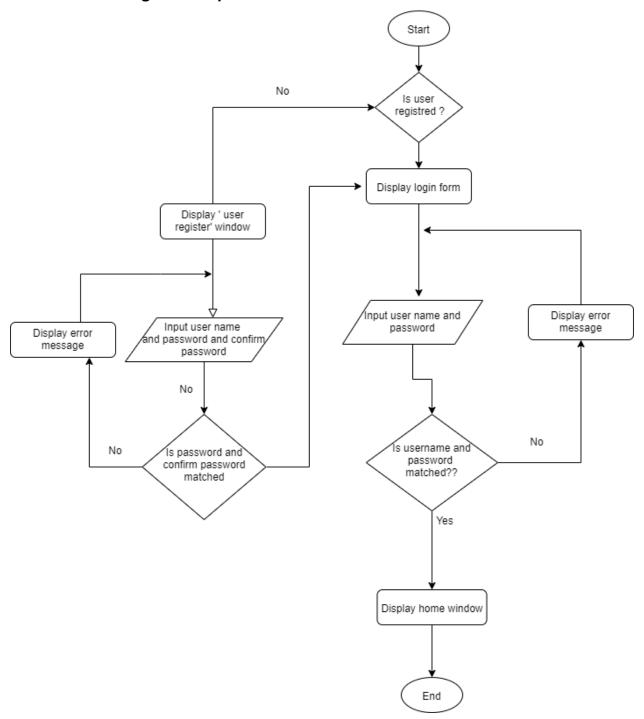


Figure 16: Flow chart of program startup

6.2. Flow chart of home window

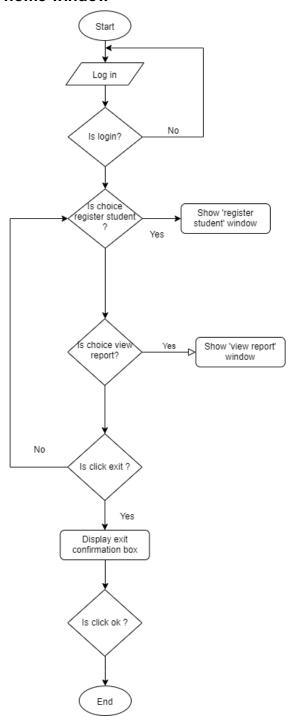


Figure 17: Home window Flowchart

6.3. Flow chart of Bulk Register from file

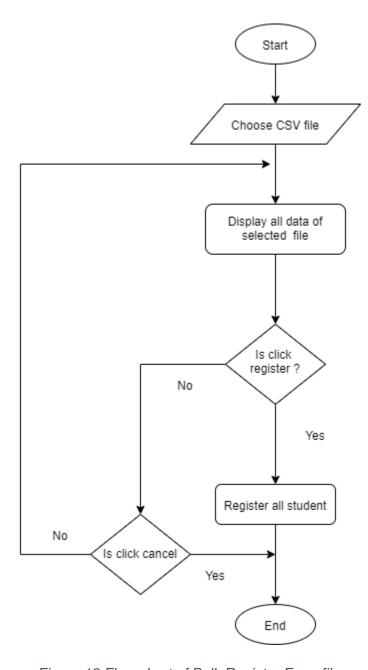


Figure 18:Flow chart of Bulk Register From file

6.4. Flow chart of Individual Student Register

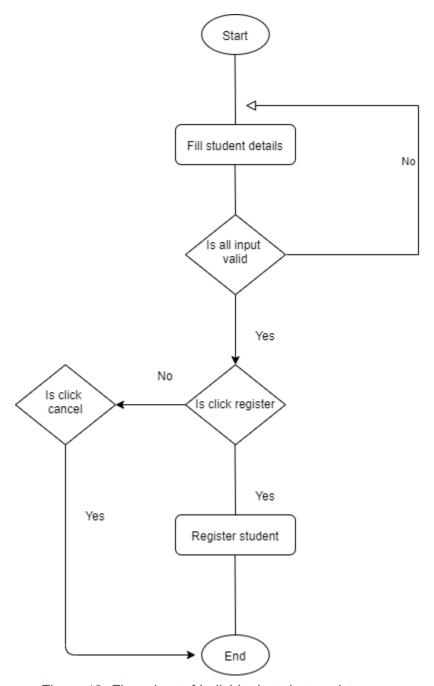


Figure 19: Flow chart of individual student register

7. Algorithms of Reports

7.1. Individual Student Enrolment Algorithm Steps:

- 1. Start
- 2. Check whether the user input data is valid or not
- 3. If not valid, display error message and avoid registration
- 4. If valid, show confirmation window and ask to register confirm or not
- 5. If user enter confirm register, write student data in xml file
- 6. Stop

7.2. Bulk Student Enrolment Algorithm Steps:

- 1. Start
- 2. Browse csv file
- 3. If browse file process aborted, display error message and close current window and open home window
- 4. If file browsed successfully, show confirmation window and ask to register confirm or not
- 5. If user enter confirm register, write student data in xml file
- 6. Stop

7.3. Sorting algorithm:

In this program bubble sort algorithm is use to sort student name and registration date. The detail workflow of bubble sort algorithm is described below.

1) Bubble Sort Algorithm:

Bubble sort is a simple sorting algorithm. This sorting algorithm is comparison-based algorithm in which each pair of adjacent elements is compared and the elements are swapped if they are not in order (tutorialspoint, 2020).

Working of bubble sort algorithm:

We take an unsorted array for our example. Bubble sort takes O(n²) time so we're keeping it short and precise.



Bubble sort starts with very first two elements, comparing them to check which one is greater.



In this case, value 33 is greater than 14, so it is already in sorted locations. Next, we compare 33 with 27.



We find that 27 is smaller than 33 and these two values must be swapped.



The new array should look like this -



Next we compare 33 and 35. We find that both are in already sorted positions.



Then we move to the next two values, 35 and 10.



We know then that 10 is smaller 35. Hence they are not sorted.



We swap these values. We find that we have reached the end of the array. After one iteration, the array should look like this –



To be precise, we are now showing how an array should look like after each iteration. After the second iteration, it should look like this –



Notice that after each iteration, at least one value moves at the end.



And when there's no swap required, bubble sorts learns that an array is completely sorted.



8. Data structure used in program

ring development of this project, many data types like list, array and algorithm like bubble sort algorithm is used.

1) List

When it comes to the list data structure, we should mention that it defines a sequential set of elements to which you can add new elements and remove or change existing ones (medium, 2020).

In program list is used in login window, where user name and password from text file stored in list. The reason for using list in program is mention below:

- The need for this data structure is most obvious when we have the urge to store items without knowing how much space we'll need in advance.
- Also, when we often have the need to add or get elements from a data structure, the array list would suit well because those operations are fast and efficient.

2) Array

An array is a collection of items stored at contiguous memory locations. The idea is to store multiple items of the same type together. This makes it easier to calculate the position of each element by simply adding an offset to a base value, i.e., the memory location of the first element of the array (geeksforgeeks, 2020).

In this program array is used reading xml value, where program read data from xml file and store them in an array.

Here, are some reasons for using arrays:

- Arrays are best for storing multiple values in a single variable
- Arrays are better at processing many values easily and quickly
- Sorting and searching the values is easier in arrays

9. Reflection of own experience of using C# and Visual Studio

The development of this project is based in c# programming language and visual studio 2019. While working with c#, I have a lot of fun ones at that. Since it's similar to other C-type languages like C, C++, and Java, being fluent in C# will make learning the others a breeze. As far as programming languages go, C# is fairly simple to digest. It's a high-level language, and that means it is somewhat similar to English. It's also designed with ease of use as a priority, and it abstracts away most of the complex tasks like memory management and exception handling, enabling coders to learn it without frying their brains.

Among other things, C# is a language that strikes a very good balance between beginner's learning curve, language abstraction and expressiveness, code brevity/verbosity, code maintainability, refactorability and reusability, compiling time, run-time efficiency and predictability etc. making it suitable for many types of work and scenarios. C# language and relevant libraries are very well documented.

Let's talk about visual studio 2019, Visual Studio IDE is a full-featured development platform for multiple operating systems as well as the web and the cloud. It allows users to smoothly navigate the interface so they can write their code speedily and accurately.

With Visual Studio IDE, developers also have access to a host of debugging tools. These assist them in profiling bugs and diagnosing them simply. This way, they can deploy their applications confidently, knowing that they have done away with anything that could cause performance errors.

Although, it has many good points but I find some issue in visual studio 2019. It needs really high processor and high ram. When we run visual studio below 4gb ram, visual studio can not operate well, it consumes a lot of time to load in such low processor/ram laptops.

Thus, only one issue I experienced using visual studio is, it consumes a lot of ram. I think the solution to overcome this problem is, developing two version of 'visual studio'. One will be developed as light version for low processor computer, so that all the user who have light processor/ram computer can also use visual studio efficiently.

10. Test Case

10.1. Login validation test

I. User name is entered and password is leaved empty, screen shot of output of the application is shown below:

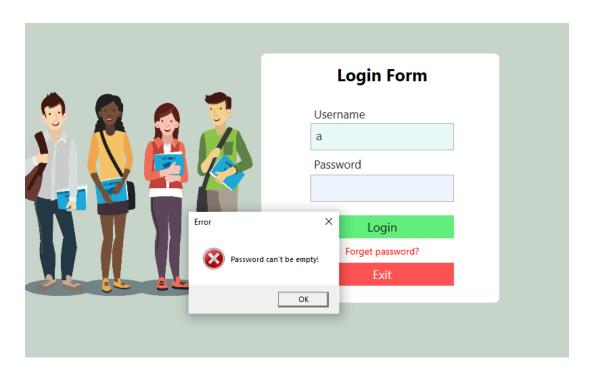


Figure 21: Empty password test

II. wrong username and password is entered to see how system handle the situation, screenshot of output of the application is shown below:

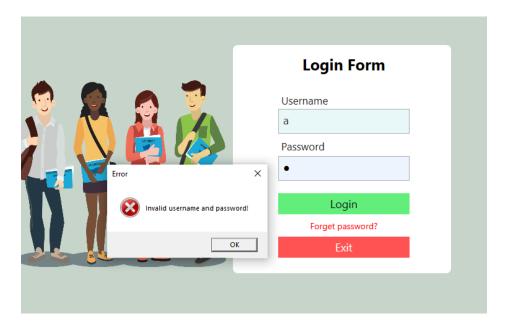


Figure 22:Wrong Username and Password test

III. username and password is leaved empty to see how system handle the situation, screenshot of output of the application is shown below:



Figure 23: Empty username and password test

10.2. Student Registration validation test

I. Here in name input field, integer value is entered to see how system handle the situation. screenshot of output of the application is shown below:

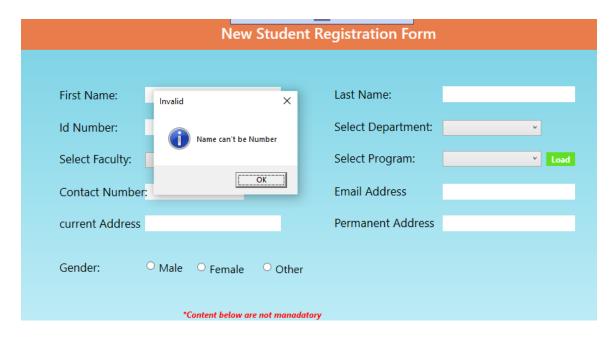


Figure 24: Entering number as name test

II. Here in name input field, integer value is entered to see how system handle the situation. screenshot of output of the application is shown below:

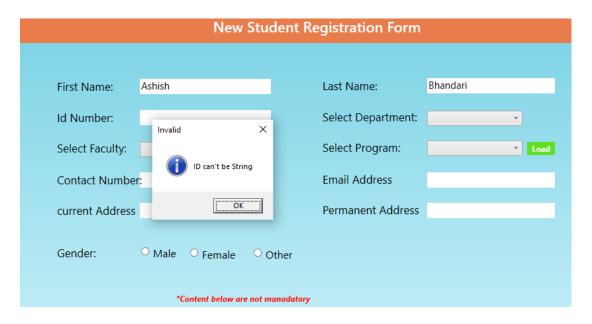


Figure 25: ID as string test

III. Here, in contact number field, string value is entered to see how system handle the situation. screenshot of output of the application is shown below:

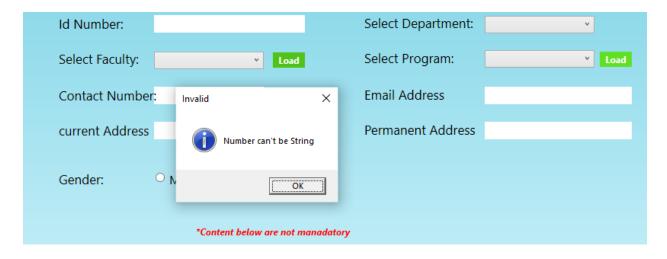


Figure 26: Contact number as string test

IV. Here, in email input field, wrong format email is entered to see how system handle the situation. screenshot of output of the application is shown below:

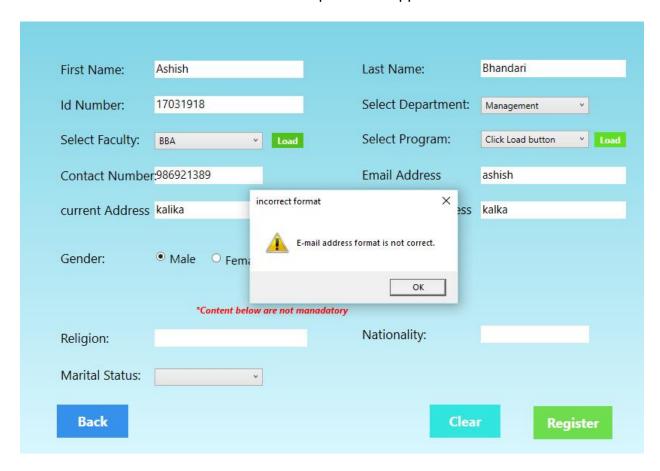


Figure 27: Email validation test

V. Here, all the required field are filled correctly and last name filed is leaved blank to see how system handle the situation. screenshot of output of the application is shown below:



Figure 28: Empty input test

VI. Here, in contact number field, only two integer value is entered to see how system handle the situation. screenshot of output of the application is shown below:

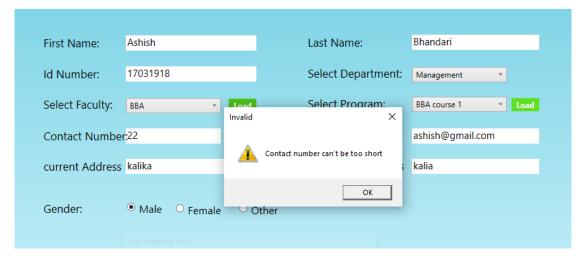


Figure 29: Short Contact number test

11. CONCLUSION

The initial coursework for the module CS6004NA Application Development was to build up student information system for an organization. It required a long time to build up the task in Visual Studio 2019 utilizing C# programming dialect. The framework has login screen to add security to the task. After login, the framework shows an main page where there are four clickable button along with logout and exit button after clicking any one button among the four the clickable button the clicked button goes to its respective page where the data are further inserted and send into XML and the data is saved into XML and the data is further retrieve to show the report and chart of the students. Aside from various shape components, class outline for every one of the structures and classes were utilized.

12. References

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13. Appendix

Homewindow.xaml.cs

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
```

```
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace Student_info
    public partial class HomeWindow : Window
        private string CurrentPath = System.AppDomain.CurrentDomain.BaseDirectory;
        private string FilePath = @"d:\Student Management\password.dat";
        public HomeWindow()
        {
        InitializeComponent();
            //if folder exist system ignore this line
            string folderName = @"d:\Student_Management";
            System.IO.Directory.CreateDirectory(folderName);
            //check whether password file exists or not
            bool checkFile = check_file(FilePath);
            if (checkFile == false)
                string msg = "It seems you are new to this system! Set username
and password";
                this.Hide();
                password pw = new password(msg);
                pw.Show();
            }
        }
        private void exit_button(object sender, RoutedEventArgs e)
            MessageBoxResult messageBoxResult =
System.Windows.MessageBox.Show("Are you sure wanna exit ?", "Exit Confirmation",
System.Windows.MessageBoxButton.YesNo, MessageBoxImage.Warning);
            if (messageBoxResult == MessageBoxResult.Yes)
                this.Close();
            }
            else
                //
```

```
}
        }
        private void login_button(object sender, RoutedEventArgs e)
            string user name = username box.Text;
            string password = password box.Password;
            string user;
            string pw;
            List<string> lines = File.ReadAllLines(FilePath).ToList();
            foreach (var line in lines)
                string[] entries = line.Split(',');
                user = entries[0];
                pw = entries[1];
                if (user_name == "")
                    MessageBox.Show("Empty username! Please enter username
first","Error", System.Windows.MessageBoxButton.OK, MessageBoxImage.Error);
                else if (password == "")
                    MessageBox.Show("Password can't be empty!", "Error",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Error);
                else if (password == pw && user_name == user)
                    // this.Hide();
                    MainWindow mainWindow = new MainWindow();
                    mainWindow.Show();
                    this.Close();
                }
                else
                    MessageBox.Show("Invalid username and password!", "Error",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Error);
            }
        }
        private bool check file(string path)
            if (!File.Exists(path))
                return false;
            }
            else
                return true;
```

```
}

private void Checkbox_pw_show(object sender, RoutedEventArgs e)
{

    private void forgetpw_button(object sender, RoutedEventArgs e)
    {

        string msg = " Set up new username and password";

        password pw = new password(msg);
        pw.Show();
    }
}
```

Password.xaml.cs

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
```

```
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace Student info
{
    /// <summary>
    /// Interaction logic for password.xaml
   /// </summary>
    public partial class password : Window
        public password(string msg)
            InitializeComponent();
            header_box.Content = msg;
            header_box.IsEnabled = false;
        }
        private void register_button(object sender, RoutedEventArgs e)
            string pw1 = password_box.Password;
            string pw2 = password_box_Copy.Password;
            if (pw1 == pw2)
            {
                string path = @"d:\Student_Management\password.dat";
                using (StreamWriter sw = File.CreateText(path))
                    sw.Close();
                    //write text
                    string username = username_box.Text;
                    using (StreamWriter streamWriter = new StreamWriter(path, true))
                    {
                        streamWriter.WriteLine($"{username },{pw1}");
                        streamWriter.Close();
                    }
                }
                this.Hide();
                HomeWindow hmWindow = new HomeWindow();
                hmWindow.Show();
            }
            else
            {
                MessageBox.Show("Password does not match!");
            }
        }
        private void exit_btn(object sender, RoutedEventArgs e)
```

```
MessageBoxResult messageBoxResult = System.Windows.MessageBox.Show("Are you
sure wanna cancel process ?", "Exit Confirmation", System.Windows.MessageBoxButton.YesNo,
MessageBoxImage.Warning);

if (messageBoxResult == MessageBoxResult.Yes)
{
    this.Close();
}
else
{
    //
}

private void pw_show_btn(object sender, RoutedEventArgs e)
{
    password_box.PasswordChar = default(char);
}
}
```

MainWindow.xaml.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Navigation;
using System.Windows.Shapes;
using System.IO;
namespace Student_info
    /// <summary>
    /// Interaction logic for MainWindow.xaml
    /// </summary>
   public partial class MainWindow : Window
        public MainWindow()
            InitializeComponent();
        private void exit_btn(object sender, RoutedEventArgs e)
```

```
MessageBoxResult messageBoxResult = System.Windows.MessageBox.Show("Are you
sure wanna exit ?", "Exit Confirmation",
System.Windows.MessageBoxButton.YesNo,MessageBoxImage.Warning);
            if (messageBoxResult == MessageBoxResult.Yes)
            {
                this.Close();
                MainWindow mainWindow = new MainWindow();
            }
            else
            {
                //
            }
        }
        private void register_student(object sender, RoutedEventArgs e)
            this.Hide();
            RegisterMainWindow rmWindow = new RegisterMainWindow();
            rmWindow.Show();
        }
        private void view report(object sender, RoutedEventArgs e)
            this.Hide();
            ReportMainWindow reportMainWindow = new ReportMainWindow();
            reportMainWindow.Show();
        private void log_out_Click(object sender, RoutedEventArgs e)
            MessageBoxResult messageBoxResult = System.Windows.MessageBox.Show("Are you
sure wanna logout ?", "Logout Confirmation",
System.Windows.MessageBoxButton.YesNo,MessageBoxImage.Question);
            if (messageBoxResult == MessageBoxResult.Yes)
            {
                this.Hide();
                HomeWindow homeWindow = new HomeWindow();
                homeWindow.Show();
            }
            else
            {
                //
        }
        private void change_password_Click(object sender, RoutedEventArgs e)
            string msg = "
                                                                Change your password";
            password pw = new password(msg);
            pw.Show();
```

RegisterStudent.xaml.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Text.RegularExpressions;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace Student_info
    /// <summary>
   /// Interaction logic for Register_student.xaml
    /// </summary>
    public partial class Register student : Window
        string sex = "";
        public Register_student()
            InitializeComponent();
        }
        private void cancel_btn(object sender, RoutedEventArgs e)
            MessageBoxResult messageBoxResult = System.Windows.MessageBox.Show("Are you
sure wanna cancel process?", "Confirmation", System.Windows.MessageBoxButton.YesNo,
MessageBoxImage.Question);
            if (messageBoxResult == MessageBoxResult.Yes)
                this.Close();
                RegisterMainWindow RmWindow = new RegisterMainWindow();
                RmWindow.Show();
            }
```

```
else
                //
        }
        private void clear btn(object sender, RoutedEventArgs e)
            MessageBoxResult messageBoxResult = System.Windows.MessageBox.Show("Are you
sure wanna clear all fields?", "Reset Confirmation",
System.Windows.MessageBoxButton.YesNo, MessageBoxImage.Question);
            if (messageBoxResult == MessageBoxResult.Yes)
            {
                       clear_text();
            }
            else
                //
        }
        private void departmentBox_SelectionChanged(object sender,
SelectionChangedEventArgs e)
        {
            facultyBox.Items.Clear();
            facultyBox.Items.Add("Click Load button");
            facultyBox.SelectedItem = "Click Load button";
            programBox.Items.Clear();
            programBox.Items.Add("Click Load button");
            programBox.SelectedItem = "Click Load button";
        }
        private void FacultyBox_SelectionChanged(object sender, SelectionChangedEventArgs
e)
        {
        }
        private void faculty load Click(object sender, RoutedEventArgs e)
                facultyBox.Items.Clear();
                if (departmentBox.Text == "")
                    facultyBox.Items.Add("Select department first");
                    facultyBox.SelectedItem = ("Select department first");
                }
```

```
else if (departmentBox.Text == "IT")
                    facultyBox.Items.Add("BIT");
                    facultyBox.Items.Add("CSIT");
                }
                else if (departmentBox.Text == "Education")
                    facultyBox.Items.Add("Literature");
                    facultyBox.Items.Add("Teaching");
                }
                else if (departmentBox.Text == "Management")
                    facultyBox.Items.Add("BBA");
                    facultyBox.Items.Add("BBS");
                }
        }
        private void program_load_Click(object sender, RoutedEventArgs e)
                        dropdown_loader();
        }
        //validating student phone
        private void phone_TextChanged(object sender, TextChangedEventArgs e)
            bool valid = int_validator(phone.Text);
            if (valid == false)
                System.Windows.MessageBox.Show("Number can't be String", "Invalid",
System.Windows.MessageBoxButton.OK,MessageBoxImage.Information);
                phone.Clear();
            }
        }
       //validating student id
        private void student_id_TextChanged(object sender, TextChangedEventArgs e)
            bool valid = int_validator(student_id.Text);
            if (valid == false)
                student_id.Clear();
                MessageBox.Show("ID can't be
String","Invalid",System.Windows.MessageBoxButton.OK, MessageBoxImage.Information);
            }
```

```
}
        // register new student
        private void register btn(object sender, RoutedEventArgs e)
            bool valid = validator();
            //validating email format
            Regex mRegxExpression;
            if (mail_id.Text.Trim() != string.Empty)
            {
                mRegxExpression = new Regex(@"^([a-zA-Z0-9_\-])([a-zA-Z0-9_\-])
\.]*)@(\[((25[0-5]|2[0-4][0-9]|1[0-9]|[0-9]|[1-9][0-9]|[0-9])\.){3}|((([a-zA-Z0-9\-
]+)\.)+))([a-zA-Z]{2,}|(25[0-5]|2[0-4][0-9]|1[0-9]|(1-9][0-9]|[0-9]|[0-9])\])$");
                if (!mRegxExpression.IsMatch(mail_id.Text.Trim()))
                    System.Windows.MessageBox.Show("E-mail address format is not
correct.", "incorrect format", System.Windows.MessageBoxButton.OK,
MessageBoxImage.Warning);
                    mail_id.Focus();
                //register student only if email format is correct
                else
                {
                    if (valid == true)
                        passValue();
                }
            }
        }
        //getting gender
        private void maleRdb_Checked(object sender, RoutedEventArgs e)
            sex = "Male";
        private void femaleRdb_Checked(object sender, RoutedEventArgs e)
            sex = "Female";
        }
        private void otherRdb_Checked(object sender, RoutedEventArgs e)
```

```
sex = "Other";
        //clearing inputed text in all text fields
        private void clear_text()
        {
            first name.Clear();
            last name.Clear();
            student_id.Clear();
            phone.Clear();
            mail_id.Clear();
            tmp address.Clear();
            permanent_address.Clear();
            religion.Clear();
            nationality.Clear();
            departmentBox.Items.DeferRefresh();
        }
        //loading courses on dropdown list
        private void dropdown_loader()
        {
            programBox.Items.Clear();
            if (facultyBox.Text == "")
                programBox.Items.Add("Select faculty first");
                programBox.SelectedItem = ("Select faculty first");
            else if (facultyBox.Text == "Select department first" || facultyBox.Text ==
"Click Load button")
                programBox.Items.Add("Select faculty first");
                programBox.SelectedItem = ("Select faculty first");
            }
            else if (facultyBox.Text == "BIT")
                programBox.Items.Add("Computing");
                programBox.Items.Add("Multimedia Technologies ");
                programBox.Items.Add("Networks and IT Security ");
            else if (facultyBox.Text == "CSIT")
                programBox.Items.Add("csit course 1");
                programBox.Items.Add("csit course 2");
                programBox.Items.Add("csit course 3");
            }
            else if (facultyBox.Text == "Literature")
                programBox.Items.Add("Literature course 1");
                programBox.Items.Add("Literature course 2");
                programBox.Items.Add("Literature course 3");
            }
```

```
else if (facultyBox.Text == "Teaching")
                 programBox.Items.Add("Teaching course 1");
programBox.Items.Add("Teaching course 2");
programBox.Items.Add("Teaching course 3");
             }
             else if (facultyBox.Text == "BBA")
                 programBox.Items.Add("BBA course 1");
                 programBox.Items.Add("BBA course 2");
                 programBox.Items.Add("BBA course 3");
             }
             else if (facultyBox.Text == "BBS")
                 programBox.Items.Add("BBS course 1");
                 programBox.Items.Add("BBS course 2");
                 programBox.Items.Add("BBS course 3");
        }
        //validating all the empty required text box
        public bool validator()
        {
             //empty input validation
             if (first_name.Text == "")
             {
                 MessageBox.Show("Firstname is required", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                 return false;
             else if (last_name.Text == "")
                 MessageBox.Show("Lastname is required", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                 return false;
             else if (student_id.Text == "")
                 MessageBox.Show("student_id is required", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                 return false;
             else if (phone.Text == "")
                 MessageBox.Show("Phone is required", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                 return false;
             else if (phone.Text.Length <5)
```

```
MessageBox.Show("Contact number can't be too short", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                return false;
            }
            else if (mail id.Text == "")
                MessageBox.Show("Mail-id is required", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                return false;
            else if (sex == "")
                MessageBox.Show("Gender is required", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                return false;
            else if (tmp_address.Text == "" || permanent_address.Text == "")
                MessageBox.Show("Address is required", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                return false;
            else if (departmentBox.Text == "")
                MessageBox.Show("Select one Department ");
                return false;
            else if (facultyBox.Text == "" || facultyBox.Text == "Click Load button" ||
facultyBox.Text == "Select department first")
                MessageBox.Show("Select one Faculty", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                return false;
            else if (programBox.Text == "" || programBox.Text == "Click Load button" ||
programBox.Text == "Select faculty first")
                MessageBox.Show("Select one Program", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Warning);
                return false;
            }
            else
            {
                return true;
            }
        }
        //validating whether a number is integer or not
```

```
public bool int_validator(string num)
            bool isnumber = Int32.TryParse(num, out int j);
            if (isnumber == false)
            {
                return false;
            }
            else
            {
                return true;
            }
        }
        public void passValue()
            string Fname = first_name.Text;
            string Lname = last_name.Text;
            int Id = Convert.ToInt32(student id.Text);
            string Department = departmentBox.Text;
            string Faculty = facultyBox.Text;
            string Program = programBox.Text;
            int Phone = Convert.ToInt32(phone.Text);
            string Email = mail id.Text;
            string Gender = sex;
            string currentAddr = tmp_address.Text;
            string permanentAddr = permanent_address.Text;
            string Religion = religion.Text;
            string Nationality = nationality.Text;
            string MarritalStatus = marritalStatus.Text;
            this.Hide();
            Register_confirm register_Confirm = new Register_confirm(Fname, Lname, Id,
Department, Faculty, Program, Phone, Email, Gender, currentAddr, permanentAddr, Religion,
Nationality, MarritalStatus);
            register_Confirm.Show();
        }
        private void first_name_TextChanged(object sender, TextChangedEventArgs e)
            bool valid = int_validator(first_name.Text);
            if (valid == true)
                first name.Clear();
                MessageBox.Show("Name can't be Number", "Invalid",
System.Windows.MessageBoxButton.OK, MessageBoxImage.Information);
        }
        private void last_name_TextChanged(object sender, TextChangedEventArgs e)
```

RegisterBulk.xaml.cs

```
using FileHelpers;
using Microsoft.Win32;
using System;
using System.Collections.Generic;
using System.Data;
using System.IO;
```

```
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace Student info
    /// <summary>
    /// Interaction logic for RegisterBulkStdWindow.xaml
    /// </summary>
    public partial class RegisterBulkStdWindow : Window
        private string fileName;
        private List<StudentInfo> csvStudentList;
        public RegisterBulkStdWindow()
        {
            InitializeComponent();
        }
       public void Save(StudentInfo studentInfo)
                if (!File.Exists(fileName))
                    var file = File.Create(fileName);
                    file.Close();
                }
                using (StreamWriter streamWriter = new StreamWriter(fileName, true))
                    streamWriter.WriteLine(studentInfo.ToString());
                    streamWriter.Close();
            }
        public List<StudentInfo> ReadAll()
            try {
            if (!File.Exists(fileName))
                throw new FileNotFoundException("Student Info file doesn't exist");
        }
            catch (Exception ex)
                MessageBox.Show("Sorry! unexpected Error occured! try again", "Error",
MessageBoxButton.OK, MessageBoxImage.Error);
            List<StudentInfo> students = new List<StudentInfo>();
            try
```

```
{
                using (StreamReader streamReader = new StreamReader(fileName))
                    streamReader.ReadLine();
                    while (streamReader.Peek() != -1)
                        var studentString = streamReader.ReadLine();
                        var studentInfo = new StudentInfo(studentString);
                        students.Add(studentInfo);
                    streamReader.Close();
                }
            catch (Exception ex)
                MessageBox.Show("Sorry! unexpected Error occured! try again", "Error",
MessageBoxButton.OK, MessageBoxImage.Error);
                this.Close();
                RegisterMainWindow registerMainWindow = new RegisterMainWindow();
                registerMainWindow.Show();
            }
            return students;
            }
        private void fileChooseBtn Click(object sender, RoutedEventArgs e)
            OpenFileDialog theDialog = new OpenFileDialog();
            theDialog.Title = "Open csv File";
            theDialog.Filter = "CSV files|*.csv";
            theDialog.InitialDirectory = @"C:\";
            theDialog.ShowDialog();
            fileName = theDialog.FileName;
            csvStudentList = ReadAll();
            gridView.ItemsSource = csvStudentList;
        }
        private void registerBtn_Click(object sender, RoutedEventArgs e)
            var handler = new Handler();
            var dataSet = handler.CreateDataSet();
             dataSet = new DataSet();
            if (File.Exists(@"D:\Student Management\StudentRegistrationData.xml"))
            {
                dataSet.ReadXml(@"D:\Student Management\StudentRegistrationData.xml");
                AddData(dataSet);
                dataSet.WriteXml(@"D:\Student Management\StudentRegistrationData.xml");
            }
            else
```

```
handler = new Handler();
                dataSet = handler.CreateDataSet();
                AddData(dataSet);
dataSet.WriteXmlSchema(@"D:\Student Management\StudentRegistrationSchema.xml");
                dataSet.WriteXml(@"D:\Student Management\StudentRegistrationData.xml");
            MessageBox.Show("Successfully Registered");
            this.Close();
            RegisterMainWindow registerMainWindow = new RegisterMainWindow();
            registerMainWindow.Show();
        private void AddData(DataSet dataSet)
            var studentData = ReadAll();
            foreach (StudentInfo stdData in studentData)
                var dr = dataSet.Tables["Student"].NewRow();
                dr["Name"] = stdData.Name;
                dr["StudentID"] = Convert.ToInt32(stdData.StudentID);
                dr["Department"] = stdData.Department;
                dr["Faculty"] = stdData.Faculty;
                dr["Program"] = stdData.Program;
                dr["Phone"] = Convert.ToInt32(stdData.Phone);
                dr["Email"] = stdData.Email;
                dr["Gender"] = stdData.Gender;
                dr["CurrentAddress"] = stdData.CurrentAddress;
                dr["PermanentAddress"] = stdData.PermanentAddress;
                dr["Religion"] = stdData.Religion;
                dr["Nationality"] = stdData.Nationility;
                dr["MaritalStatus"] = stdData.MarritalStatus;
                dr["RegistrationDate"] = stdData.RegistrationDate;
                dataSet.Tables["Student"].Rows.Add(dr);
            }
        }
        private void cancelBtn_Click(object sender, RoutedEventArgs e)
            MessageBoxResult messageBoxResult = System.Windows.MessageBox.Show("Are you
sure wanna cancel ?", "Cancel Confirmation", System.Windows.MessageBoxButton.YesNo,
MessageBoxImage.Question);
            if (messageBoxResult == MessageBoxResult.Yes)
                this.Hide();
                RegisterMainWindow RmWindow = new RegisterMainWindow();
                RmWindow.Show();
            }
            else
                //
```

```
}
        }
        private void gridView_SelectionChanged(object sender, SelectionChangedEventArgs
e)
        {
        }
    }
    public class StudentInfo
        public StudentInfo(string studentString)
            this.ConvertToObject(studentString);
        public string Name { get; set; }
        public string StudentID { get; set; }
        public string Department { get; set; }
        public string Faculty { get; set; }
        public string Program { get; set; }
        public string Phone { get; set; }
        public string Email { get; set; }
        public string Gender { get; set; }
        public string CurrentAddress { get; set; }
        public string PermanentAddress { get; set; }
        public string Religion { get; set; }
        public string Nationility { get; set; }
        public string MarritalStatus { get; set; }
        public string RegistrationDate { get; set; }
        public override string ToString()
            return
$"{this.Name}:{this.StudentID}:{this.Department}:{this.Faculty}:{this.Program}:{this.Phon
e}:{this.Email}:{this.Gender}:{this.CurrentAddress}:{this.PermanentAddress}:{this.Religio
n}:{this.Nationility}:{this.RegistrationDate}";
        private void ConvertToObject(string studentString)
            var splitedStrings = studentString.Split(',');
            this.Name = splitedStrings[0];
            this.StudentID = splitedStrings[1];
            this.Department = splitedStrings[2];
            this.Faculty = splitedStrings[3];
            this.Program = splitedStrings[4];
            this.Phone = splitedStrings[5];
            this.Email = splitedStrings[6];
            this.Gender = splitedStrings[7];
            this.CurrentAddress = splitedStrings[8];
            this.PermanentAddress = splitedStrings[9];
            this.Religion= splitedStrings[10];
```

```
this.Nationility = splitedStrings[11];
this.MarritalStatus = splitedStrings[12];
this.RegistrationDate = splitedStrings[13];
}
}
```

Handler.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data;
```

```
namespace Student_info
    public class Handler
    {
        public DataSet CreateDataSet()
            var ds = new DataSet();
            ds.Tables.Add(CreateStudentTable());
            return ds;
        }
        private DataTable CreateStudentTable()
            var dt = new DataTable("Student");
            //DataColumn dataColumn = new DataColumn("SN", typeof(int));
            //dataColumn.AutoIncrement = true;
            //dataColumn.AutoIncrementSeed = 1;
            //dataColumn.AutoIncrementStep = 1;
            //dt.Columns.Add(dataColumn);
            dt.Columns.Add("Name", typeof(string));
            dt.Columns.Add("StudentID", typeof(int));
            dt.Columns.Add("Department", typeof(string));
            dt.Columns.Add("Faculty", typeof(string));
            dt.Columns.Add("Program", typeof(string));
            dt.Columns.Add("Phone", typeof(int));
            dt.Columns.Add("Email", typeof(string));
dt.Columns.Add("Gender", typeof(string));
            dt.Columns.Add("CurrentAddress", typeof(string));
            dt.Columns.Add("PermanentAddress", typeof(string));
            dt.Columns.Add("Religion", typeof(string));
            dt.Columns.Add("Nationality", typeof(string));
            dt.Columns.Add("MaritalStatus", typeof(string));
            dt.Columns.Add("RegistrationDate", typeof(string));
            return dt;
        private void AddSampleData(DataSet dataSet)
           var dr = dataSet.Tables["Student"].NewRow();
            dr["Name"] = "Ashish Bhandari";
            dr["StudentID"] = 17031918;
            dr["Depaertment"] = "IT";
            dr["Faculty"] = "BIT";
            dr["Program"] = "Networking";
            dr["Phone"] = 986911390;
            dr["Email"] = "ashish@gmail.com";
            dr["Gender"] = "Male";
            dr["CurrentAddress"] = "Ratnachowk-07";
            dr["PermanentAddress"] = "Kalika-28";
            dr["Reiligion"] = "Hindu";
            dr["Nationality"] = "Nepali";
            dr["MarritalStatus"] = "Unmarried";
            dr["RegistrationDate"] = DateTime.Today;
            dataSet.Tables["Student"].Rows.Add(dr);
```

```
}
}
}
```

ViewModel.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace Student info
    class ViewModel
        string path = @"D:\Student_Management\StudentRegistrationData.xml";
        int ITData;
        int mgtData;
        int eduData;
        int ITData2;
        int mgtData2;
        int eduData2;
        public List<Sales> Data { get; set; }
        public ViewModel()
            loadData();
            Data = new List<Sales>()
                new Sales { Week=$"{DateTime.Now.AddDays(-
7).ToString("dd/MM/yyyy")}",ITA= ITData ,EducationB=eduData, ManagementC= mgtData},
                new Sales { Week=$"{DateTime.Now.AddDays(-
14).ToString("dd/MM/yyyy")}",ITA= ITData2, EducationB=eduData2, ManagementC= mgtData2},
            };
        }
        private void loadData()
            var handler = new Handler();
            var dataSet = handler.CreateDataSet();
            if (System.IO.File.Exists(path))
            {
                dataSet.ReadXml(path);
                DataTable stdReportTbl = dataSet.Tables["Student"];
                DataTable dv = stdReportTbl.Select("").CopyToDataTable();
                //filtering date of one week
                //counting total number of student registered in a week
                ITData = stdReportTbl.Select("Department = 'IT' AND RegistrationDate>='"
+ DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                mgtData = stdReportTbl.Select("Department = 'Management' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                eduData = stdReportTbl.Select("Department = 'Education' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                ITData2 = stdReportTbl.Select("Department = 'IT' AND RegistrationDate>='"
+ DateTime.Today.AddDays(-14) + "'").Count<DataRow>();
                mgtData2 = stdReportTbl.Select("Department = 'Management' AND
RegistrationDate>='" + DateTime.Today.AddDays(-14) + "'").Count<DataRow>();
                eduData2 = stdReportTbl.Select("Department = 'Education' AND
RegistrationDate>='" + DateTime.Today.AddDays(-14) + "'").Count<DataRow>();
```

```
}
}
}
```

chartWindow.xaml.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
```

```
using System.Windows.Controls;
using System.Windows.Controls.DataVisualization.Charting;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace Student_info
    /// <summary>
    /// Interaction logic for ChartWindow.xaml
    /// </summary>
   public partial class ChartWindow : Window
        string path = @"D:\Student_Management\StudentRegistrationData.xml";
        int ITData;
        int mgtData;
        int eduData;
        public List<Sales> Data { get; set; }
        public ChartWindow()
            InitializeComponent();
            LoadColumnChartData();
        }
        private void LoadColumnChartData()
            loadData();
            ((ColumnSeries)mcChart.Series[0]).ItemsSource =
                new KeyValuePair<string, int>[]{
        new KeyValuePair<string, int>("IT", ITData),
        new KeyValuePair<string, int>("Management", mgtData),
        new KeyValuePair<string, int>("Education", eduData)
         };
        }
        private void loadData()
            var handler = new Handler();
            var dataSet = handler.CreateDataSet();
            try
            {
                if (System.IO.File.Exists(path))
                    dataSet.ReadXml(path);
                    DataTable stdReportTbl = dataSet.Tables["Student"];
```

```
DataTable dv = stdReportTbl.Select("").CopyToDataTable();
                    //filtering date of one week
                    //filtering date of one week
                    //counting total number of student registered in a week
                    //counting total number of student registered in a week
                    ITData = stdReportTbl.Select("Department = 'IT' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                    mgtData = stdReportTbl.Select("Department = 'Management' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                    eduData = stdReportTbl.Select("Department = 'Education' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                }
                else
                    System.Windows.MessageBox.Show("Sorry! XML file is missing", "FIle
Not Found", MessageBoxButton.OK, MessageBoxImage.Error);
            catch (Exception ex)
            {
                System.Windows.MessageBox.Show("Sorry! Error occured", "Error",
MessageBoxButton.OK, MessageBoxImage.Error);
                this.Close();
                ReportMainWindow rpw = new ReportMainWindow();
                rpw.Show();
            }
        }
        private void back_btn(object sender, RoutedEventArgs e)
            this.Hide();
            ReportMainWindow rmw = new ReportMainWindow();
            rmw.Show();
        }
    }
}
```

ViewWeeklyReport.xaml.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
```

```
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace Student info
    /// <summary>
    /// Interaction logic for WeeklyReportWindow.xaml
    /// </summary>
    public partial class WeeklyReportWindow : Window
        string path = @"D:\Student Management\StudentRegistrationData.xml";
        int ITData;
        int mgtData;
        int eduData;
        int BITData;
        int CSITData;
        int literatureData;
        int teachingData;
        int bbaData;
        int bbsData;
        public WeeklyReportWindow()
            InitializeComponent();
            loadData();
        private void loadData()
            var handler = new Handler();
            var dataSet = handler.CreateDataSet();
            try
                if (System.IO.File.Exists(path))
                    dataSet.ReadXml(path);
                    DataTable stdReportTbl = dataSet.Tables["Student"];
                    DataTable dv = stdReportTbl.Select("").CopyToDataTable();
                    //filtering date of one week
                    //counting total number of student registered in a week
                    ITData = stdReportTbl.Select("Department = 'IT' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                    mgtData = stdReportTbl.Select("Department = 'Management' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                    eduData = stdReportTbl.Select("Department = 'Education' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                    //faculty
                    BITData = stdReportTbl.Select("Faculty = 'BIT' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
```

```
CSITData = stdReportTbl.Select("Faculty = 'CSIT' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                   literatureData = stdReportTbl.Select("Faculty = 'Literature' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                   bbaData = stdReportTbl.Select("Faculty = 'BBA' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                   bbsData = stdReportTbl.Select("Faculty = 'BBS' AND
RegistrationDate>='" + DateTime.Today.AddDays(-7) + "'").Count<DataRow>();
                   //asigning value to label
                   itDepartLbl.Content = ITData;
                   mgtDepartLbl.Content = mgtData;
                   eduDepartLbl.Content = eduData;
                   //faculty
                   bitLbl.Content = BITData;
                   CSITLbl.Content = CSITData;
                   literatureLbl.Content = literatureData;
                   teachingLbl.Content = teachingData;
                   bbaLbl.Content = bbaData;
                   bbsLbl.Content = bbsData;
           else
                   System.Windows.MessageBox.Show("Sorry! XML file is missing", "FIle
Not Found", MessageBoxButton.OK, MessageBoxImage.Error);
           }catch (Exception ex)
                   System.Windows.MessageBox.Show("Sorry! Error occured", "Error",
MessageBoxButton.OK, MessageBoxImage.Error);
                   this.Close();
                   ReportMainWindow rpw = new ReportMainWindow();
                   rpw.Show();
               }
       private void back_btn(object sender, RoutedEventArgs e)
           this.Close();
           ReportMainWindow rpw = new ReportMainWindow();
           rpw.Show();
       }
    }
}
```