Informatics College Pokhara

Application Development

CS6004NP

Coursework 1

Submitted By:	Submitted To:
Student Name: Pratik Rana Thapa	Mr. Ishwor Sapkota
London Met ID: 17030733	Application Development
Group: L3C1	
Date: 10th-Jan-2020	

Table of Contents

Table of Figures

1. Introduction

Student Information System is the easy and simple desktop software developed the use of C# Language. The Project is based totally on the concept of managing college student's information. Talking about the system, a user can file facts by supplying student's name, age, gender, and address. Then the consumer can easily enter any current documents for updating or putting off details. For this a person has to pass by thru a login system.

Besides, the consumer can without difficulty search for student's detail. In order to update or get rid of student detail, the user has to choose a file and click on the right mouse button. It'll exhibit other choices for the users. Talking about the database, it has a MySQL database. This simple application is mainly for the beginners.

1.1 Current Scenario

There are several institutions who keep the record of their students detail in ancient usual system which is Paper-Based System. In addition to that, there are some establishments with digital gadget however are well missing the elements which are wanted for an institutions.
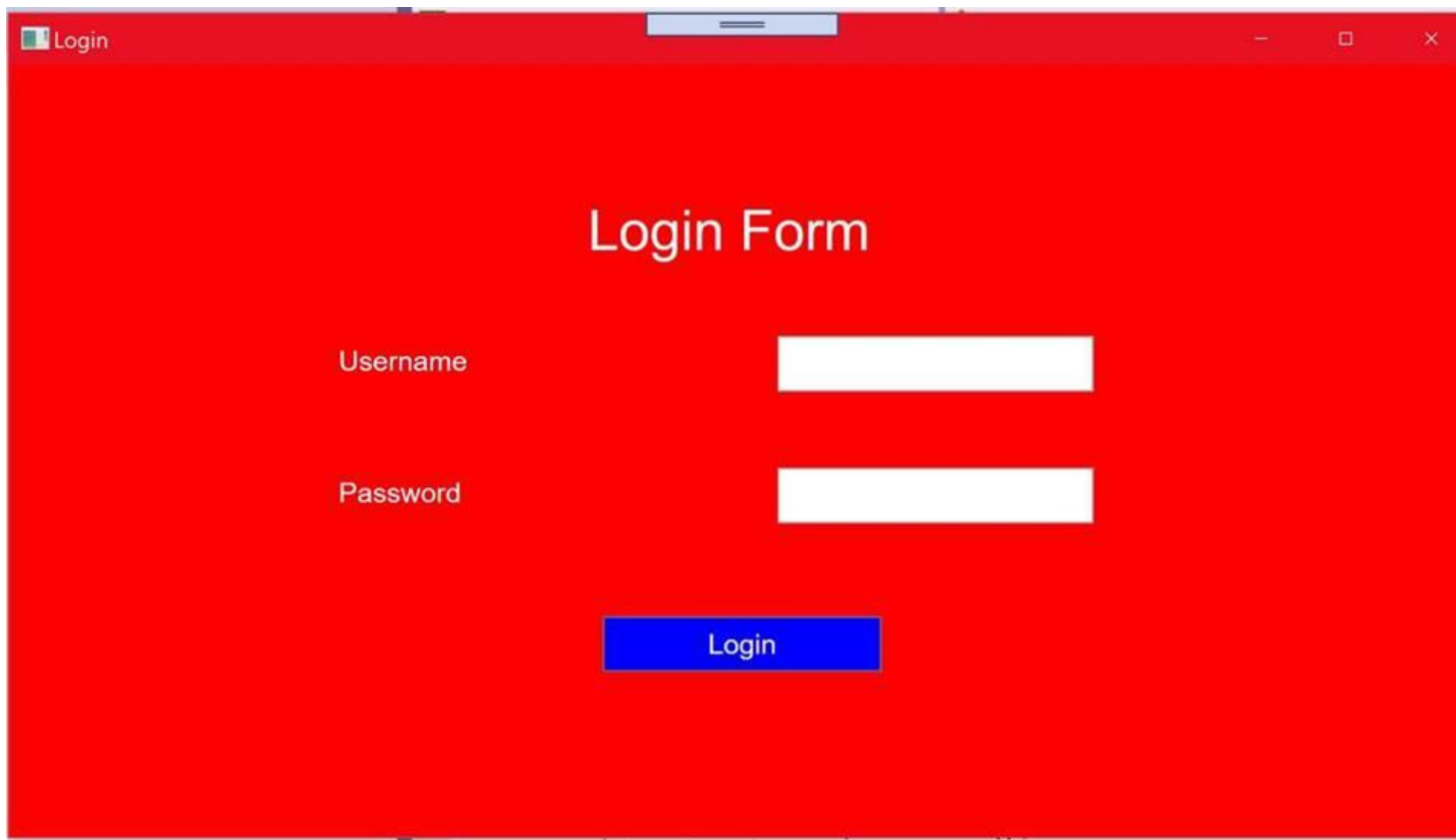
1.2   Proposed System

The first significant advantage of this proposed system is that as a school or institution you are able to keep proper track of data related to students. This includes areas such as fees being paid by students, examination records of the students, transport facilities being provided by the institution. We would be able to access data within a few seconds, something that would not have been possible without such a system in place.

2. User Manual

As the user operates the machine the preliminary display will be the security screen. The username and password of the device is "admin". Only a valid username and password can furnish get admission to the system.

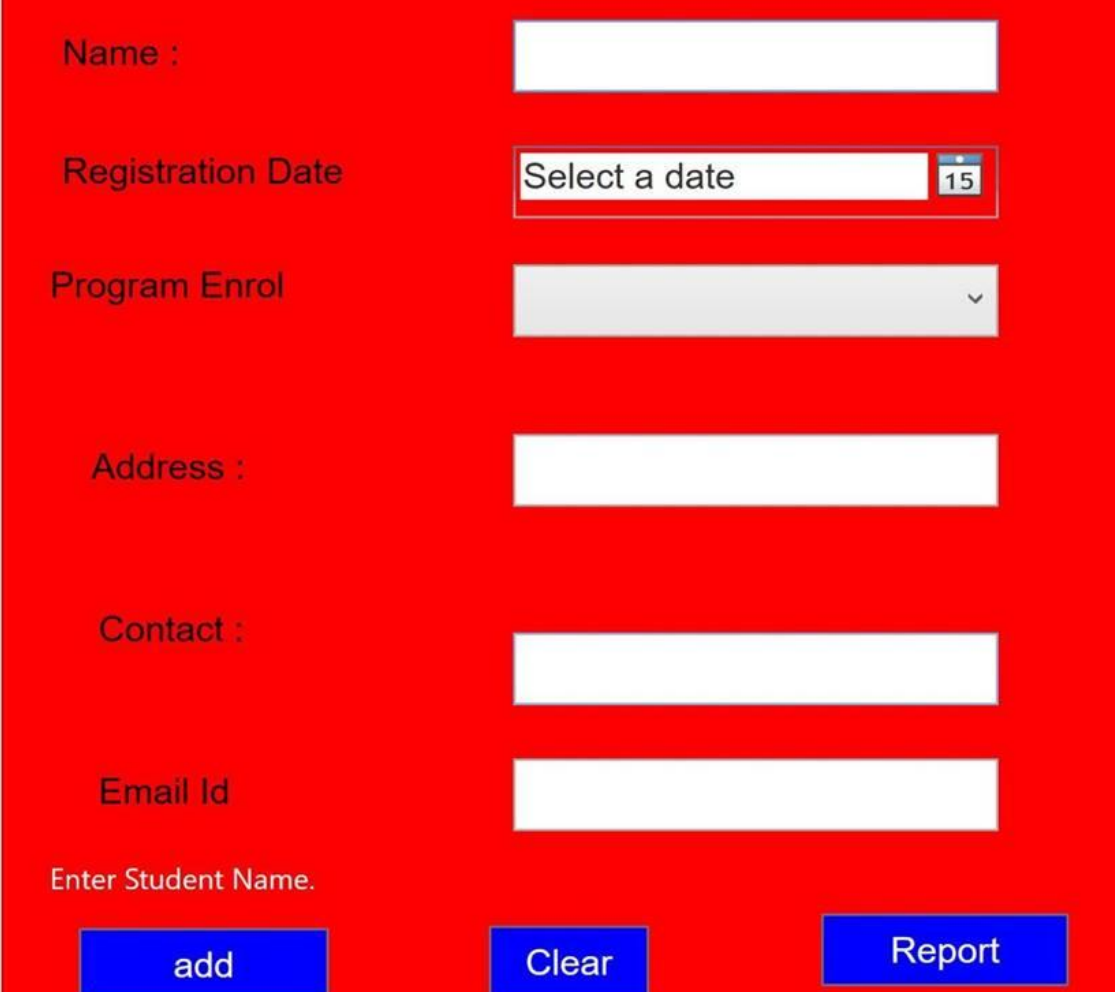Screenshot are displayed below:

Login screen

This part is the place the person have to input their login person identify and

password to get access.

Main window

The main screen affords user to enter basic small print like registration number,

name registration date , Page enroll, Address, Contact, Email Id and also allow to add clear and exhibit the details like Report and Student Details.

Added successfully

Figure 3: Added successfully

After the data is introduced when the person click the add button above message which is add successfully will be shown.

Daily Weekly Report window

After the main window operation is carried out there is a report window button which clicked then the above window appears. In this window, we can see weekly record and chart. In this section the weekly file is proven the place we can see the total number of college students that has been enrolled in the courses.
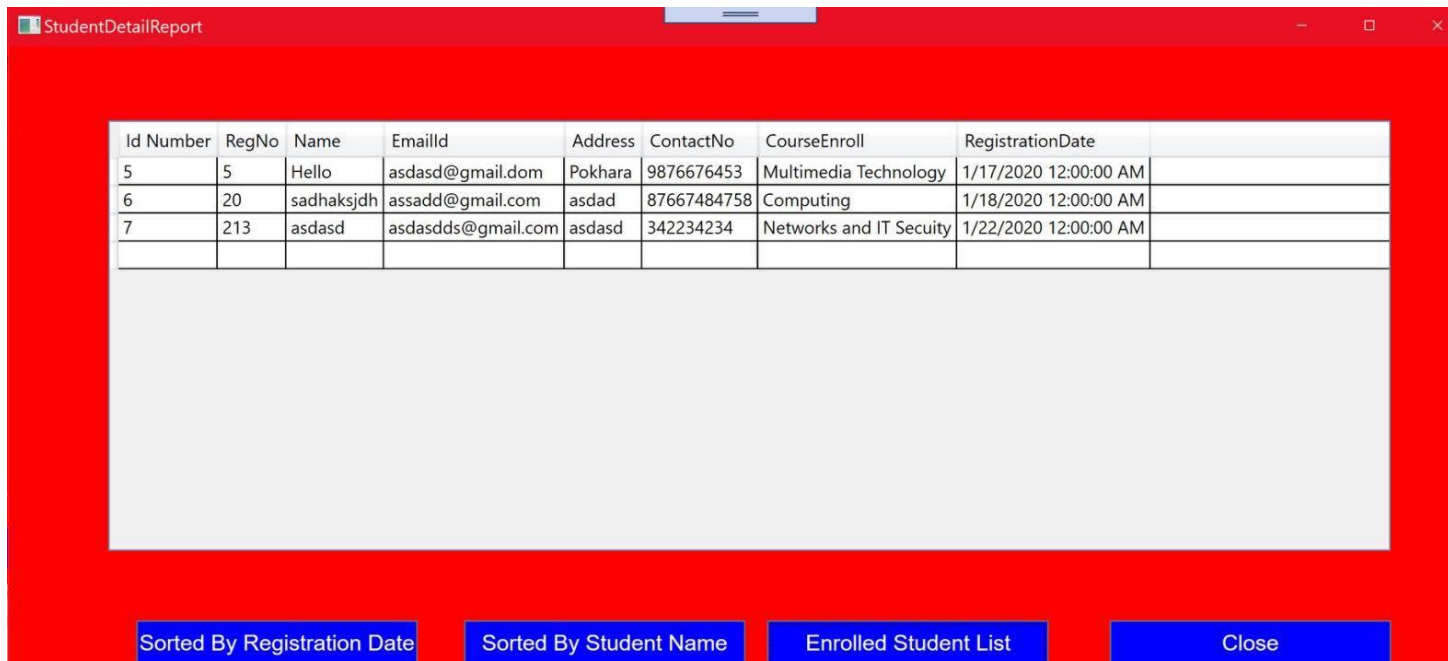
Display chart

In this part we can see the chart that has been displayed which contains the courses.

Student Detail Report
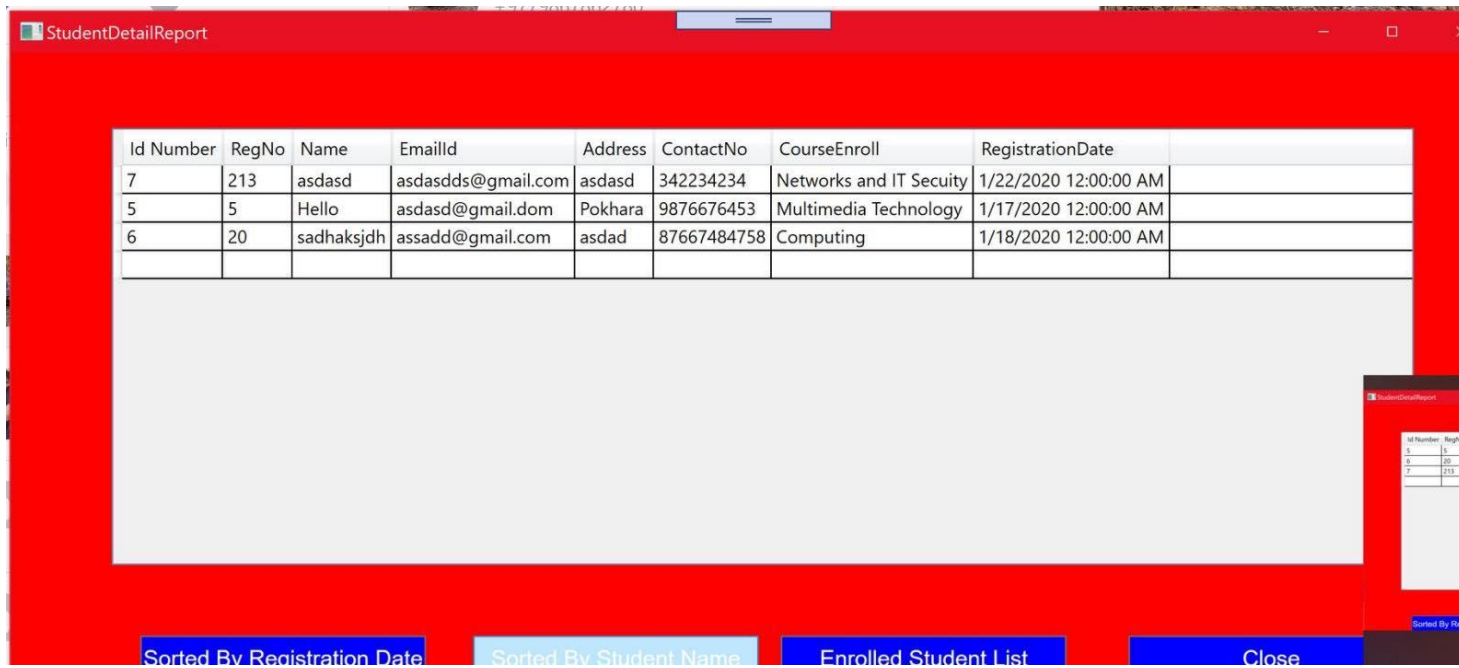
This is simply the most important window for Student Detail Report which contains the section like enrolling the student, sorting by way of registration date and sorting by student name.

Sort by student name

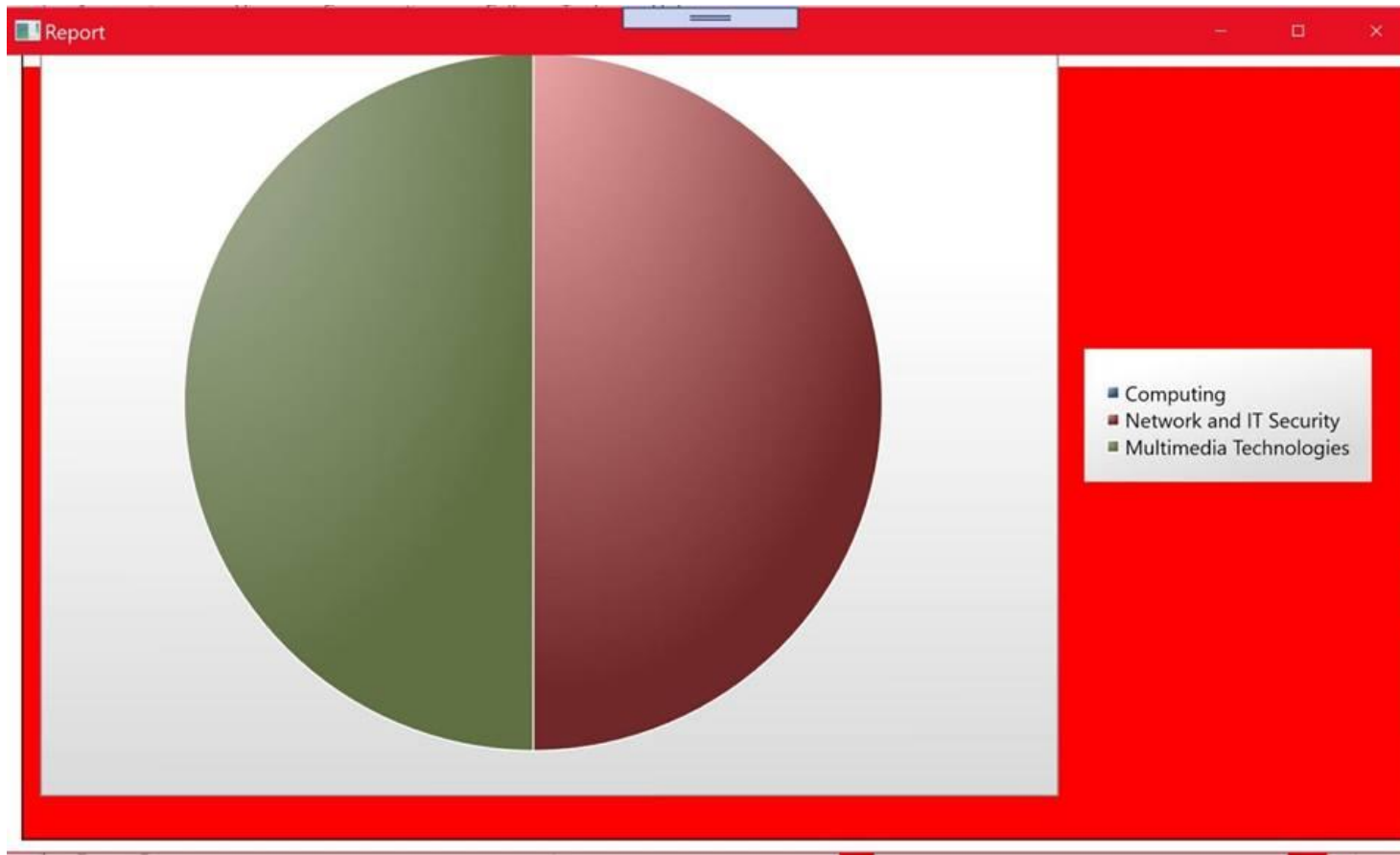| Id Number	RegNo	Name	EmailId	Address	ContactNo	CourseEnroll	RegistrationDate	
7	213	asdasd	asdasdds@gmail.com	asdasd	342234234	Networks and IT Secuity	1/22/2020 12:00:00 AM	
5	5	Hello	asdasd@gmail.dom	Pokhara	9876676453	Multimedia Technology	1/17/2020 12:00:00 AM	
6	20	sadhaksjdh	assadd@gmail.com	asdad	87667484758	Computing	1/18/2020 12:00:00 AM	

Sorted By Registration Date   Sorted By Student Name   Enrolled Student List   Close

Figure 7: Sort by student name

In this window the important points are proven in accordance to the sorting of student name.

3. SYSTEM ARCHITECTURE

Architecture diagram
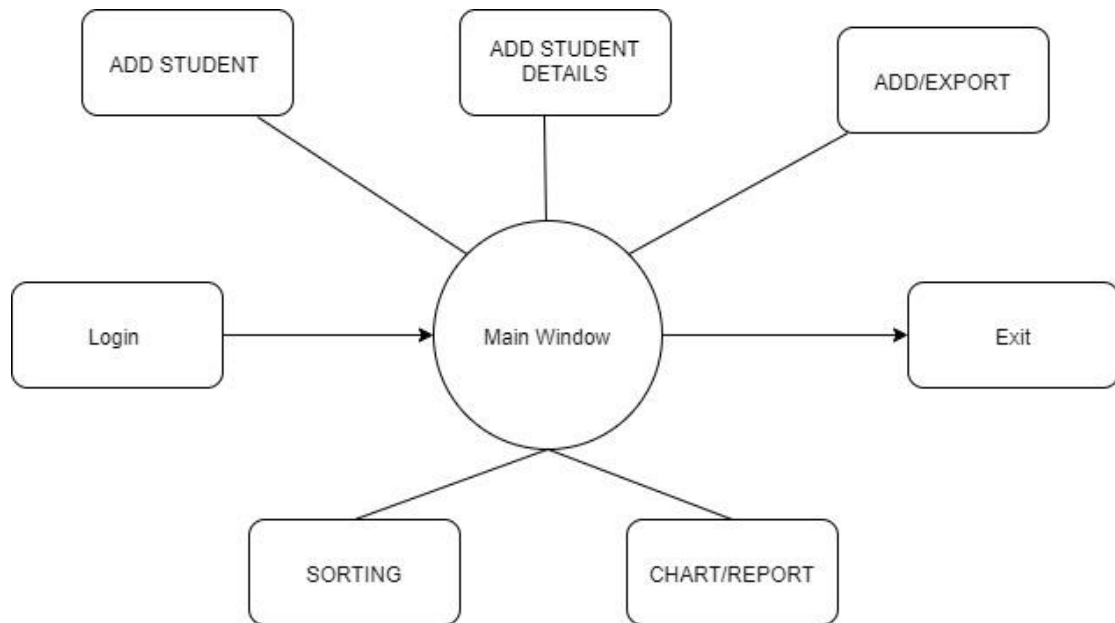
Figure 8: Architecture diagram

Class Diagram

For Login

nameofUser

passwordofUser

txtboxofUsername

txtPassword

btnLogin

btnClose

ProcessLogin()

ErrorMess()

btnLogin_Click_1()

btnClose_Click()

For HomePage

Daily report button

student addBtn

BtnWeeklyreport View

Importingbutton

AddStudentClick()

ButtonClick()

Btn_WeeklyReport()

Btn_Csv_Imp()

Button_Click()

For AddStudent

lastTXT

ComboFortxt

grdStd

RegistrationDate

txtContact

txtAddress

txtFirst

txtRegNo

Startup()

AddSampleData()

AppendStdReport()

Button_Click_1()

ClearControls()

LoadStudentData()

Get Seminars Taken

Btn_BackHome()

Btn_Clear()

For WeeklyReport

grdReport

StudentList

email

Btn_Back_1()

Btn_Weekly()

Btn_chart

ImportingCsv

label

Button

Button_Csv

Btn_Back3()

Report

DailyGrdReport

Btn_Load_Daily_Report()

LoadStudentData()

Btn_Sort_First()

Btn_Sort_Date()

Btn_Back_2()

Figure 9: Class diagram

Flow chart for student enrollment

4. **Sorting Algorithm**

   The sorting algorithm used in the student management system is bubble sorting algorithm. Bubble sort is often used to introduce the concept of a sorting algorithm.

   Bubble sort, sometimes referred to as sinking sort, is a simple sorting algorithm that repeatedly steps through the list to be sorted, compares each pair of adjacent items and swaps them if they are in the wrong order. The pass through the list is repeated until no swaps are needed, which indicates that the list is sorted. The algorith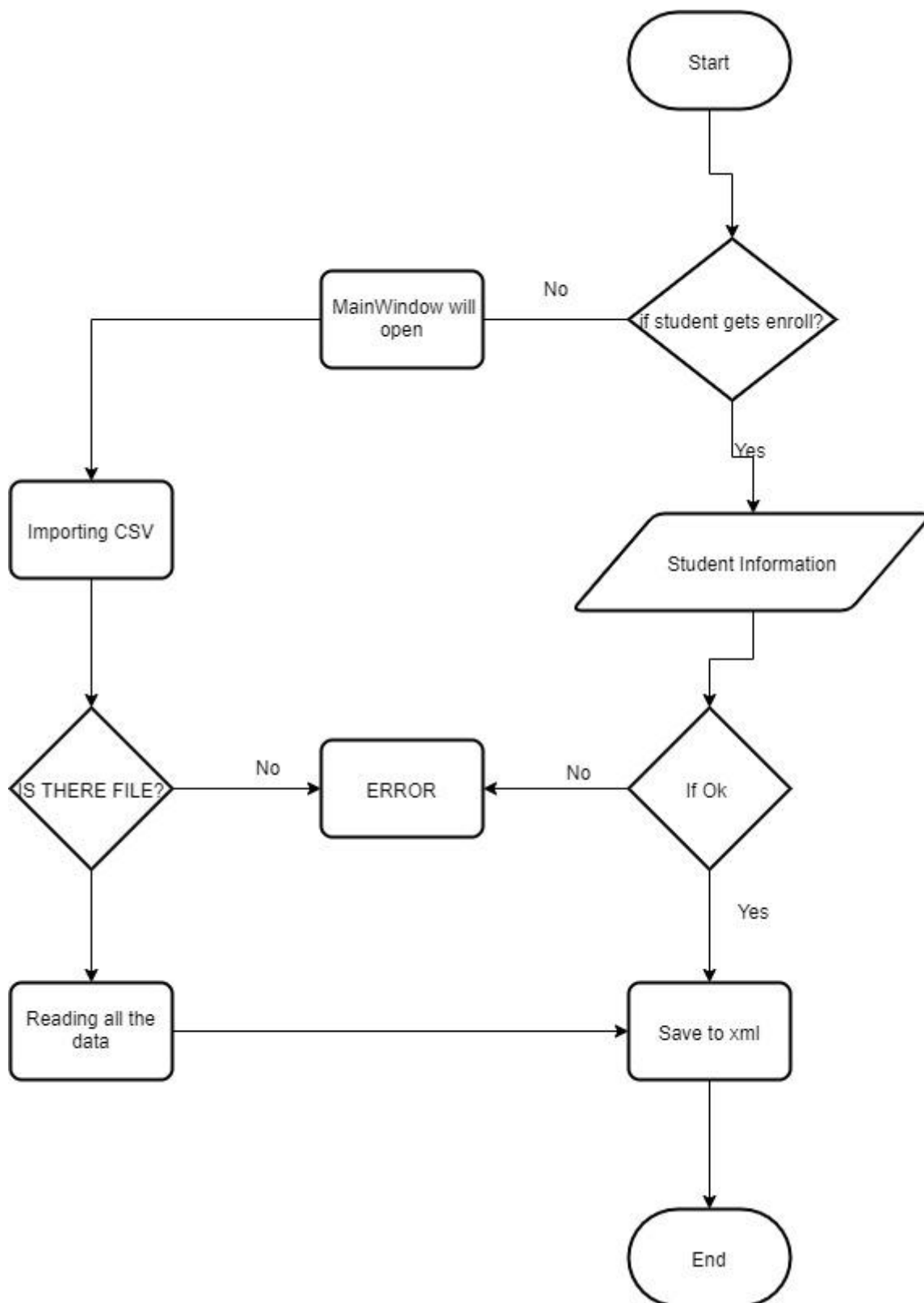m, which is a comparison sort, is named for the way smaller elements "bubble" to the top of the list. Although the algorithm is simple, it is too slow and impractical for most problems even when compared to insertion sort. It can be practical if the input is usually in Sort order but may occasionally have some out-of-order elements nearly in position.

5. **Reflection**

   The developed system referred as Student Information System is designed on Visual studio with the help of C#. The predominant idea at the back of the machine is to create an environment right here the facts of the pupil can be stored successfully and shown in the form of report each time it is necessary. Those records can be stored in any type of numbers and will be proven to the user in the shape of chart which makes clear about the functionalities and the sample of display. For example if a user needs to get the information in the shape of sorting like sorting by title then he/ she can pick out that way for facts to be displayed. Similarly, the system is also designed to produce a chart which can make the person clear about the complete proportion in greater vivid way. The gadget will

also be in a position to display the registration date which make person clear about the date of registration and also the user will be capable to sort the records in any shape of required result. This machine will be capable to display the any sort of error which can be like not entering the sure subject or inserting distinctive variety of string in the able. This will assist to prevent any sort of error that can take place in the future with incorrect entry of data. So normal this gadget is a entire package to run and operate the student records system.

6. Conclusion

The coursework was uploaded in Google classroom in 5th week and was to be completed within the 11 week. I face many difficulties while tackling with the problems that I encountered in each and every steps during the whole project. It required a long time to construct up the task in Visual Studio Enterprise 2019 utilizing C# programming. The framework has login screen to add security to the task. After login, the framework suggests an essential screen where every one of the functionalities are found. Aside from a range of shape components, class outline for each one of the buildings and classes were utilized.

7. Bibliography

geeksforgeeks. (n.d.). Retrieved 1 9, 2020, from geeksforgeeks: https://www.geeksforgeeks.org/bubble-sort/

searchoracle. (n.d.). Retrieved 1 9, 2020, from searchoracle: https://searchoracle.techtarget.com/definition/MySQL

studytonight.com. (n.d.). Retrieved 1 9, 2020, from studytonight.com: https://www.studytonight.com/data-structures/bubble-sort