

# Informatics College Pokhara



informatics  
college pokhara

**Application Development**

**CS6004NI**

**Course Work 1**

**Submitted By: Pratik Rana Thapa**  
**London Met ID:** Enter ID Here

**Submitted To:** Ishwor Sapkota  
Module Leader

Component Grade and Comments	
<b>A. Implementation of Application</b>	
<b>User Interface and proper controls used for designing</b>	missing controls in the interface
<b>Manual data entry or import from csv</b>	data types not taken care of and not properly executed functionally.
<b>Data Validation</b>	Only basic validation
<b>Enrollment Report &amp; weekly report in tabular format</b>	very poorly executed reports and data not shown accurately
<b>Course wise enrollment report &amp; Chart display</b>	Very poorly designed and only contains one report format with in appropriate data
<b>Algorithm used for sorting &amp; proper sorting of data</b>	Default sorting provided by .net is used
<b>B. Documentation</b>	
<b>User Manual for running the application</b>	User Manual is below average. Is textual only.

# Marking Scheme

<b>Application architecture &amp; description of the classes ad methods sued</b>	average work with very limited explanation of the classes and methods used
<b>Flow chart, algorithms and data sctructures used</b>	average work with very limited explanation and missing diagramatic representation.
<b>Reflective essay</b>	Very poorly written

## C. Programming Style

<b>Clarity of code,Popper Naming convention &amp; comments</b>	very poorly written code and no comments at all
<b>System Usability</b>	very poorly developed application

<b>Overall Grade:</b>	<b>D+</b>	<b>D+</b>
-----------------------	-----------	-----------

## Overall Comment:

Code should be self explainable with less comments. Need some proper naming of the componen and require to add comments on required area.

In overall the code is working and all the functionality seems working and system can be used

# Informatics College Pokhara



## Application Development

CS6004NP

### Coursework 1

**Submitted By:**

Student Name: Pratik Rana Thapa

London Met ID: 17030733

Group: L3C1

Date: 10<sup>th</sup>-Jan-2020

**Submitted To:**

Mr. Ishwor Sapkota

Application Development

## Table of Contents

1.	Introduction.....	4
1.1	Current Scenario .....	4
1.2	Proposed System .....	5
2.	User Manual .....	5
3.	SYSTEM ARCHITECTURE.....	13
4.	Sorting Algorithm.....	16
5.	Reflection .....	16
6.	Conclusion.....	17
7.	Bibliography.....	18

## Table of Figures

Figure 1: Login screen .....	6
Figure 2: Main window .....	7
Figure 3: Added successfully .....	8
Figure 4: Daily Weekly Report window.....	9
Figure 5: Display chart.....	10
Figure 6: Student Detail Report.....	11
Figure 7: Sort by student name.....	12
Figure 8: Architecture diagram.....	13
Figure 9: Class diagram.....	14
Figure 10: Flow chart for student enrollment.....	15

## **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.

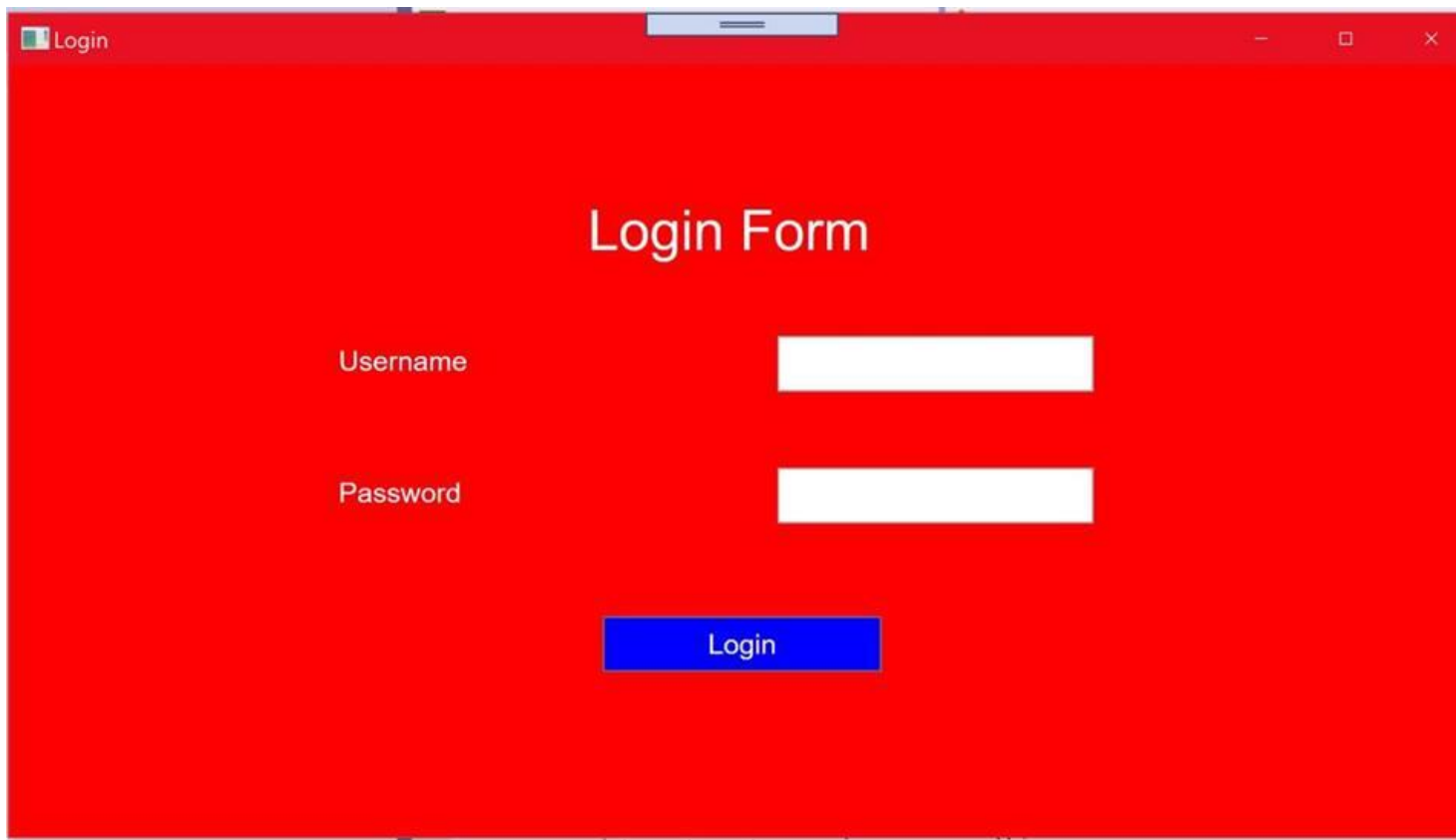
## **2. User Manual**

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

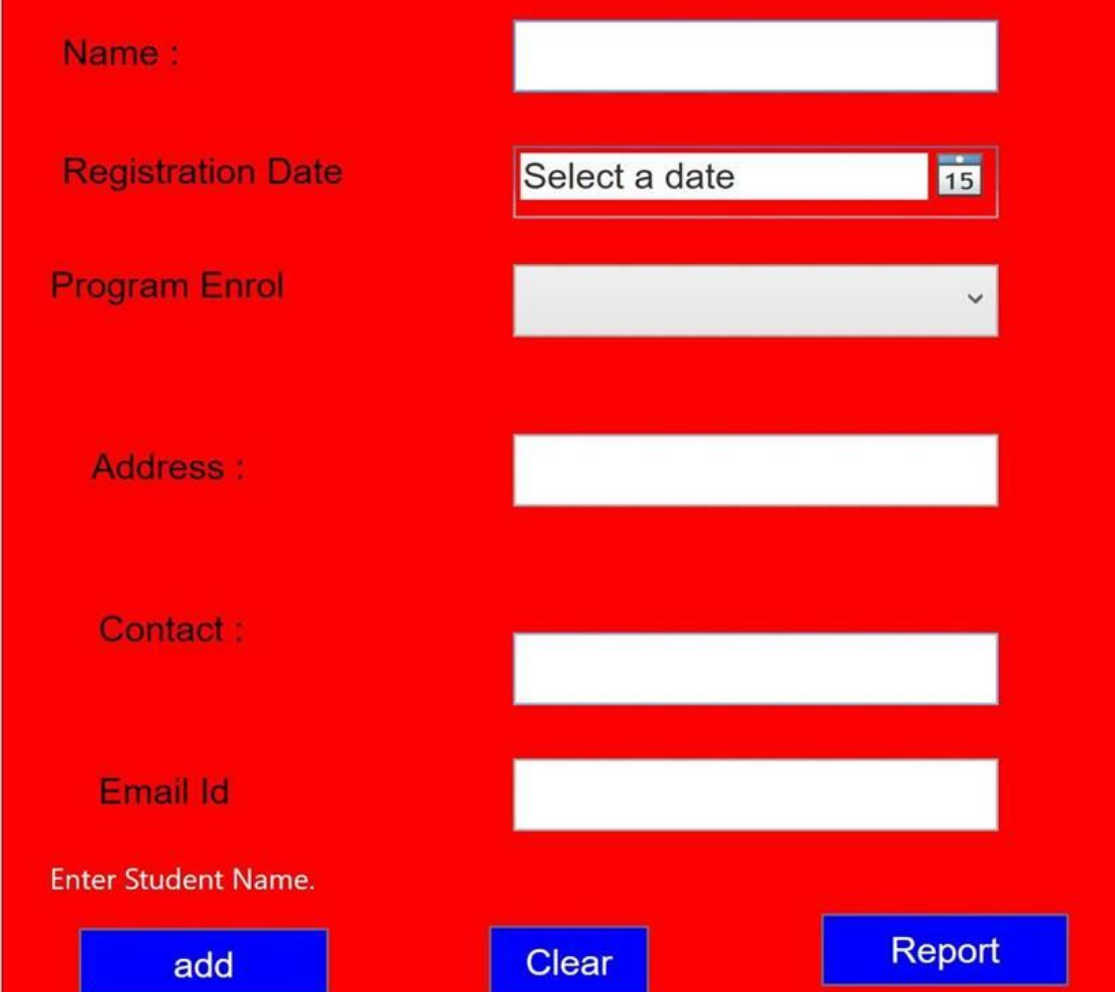


The image shows a web browser window titled "Login". The background is a solid red color. In the center, the text "Login Form" is displayed in a large, white, sans-serif font. Below this, there are two labels, "Username" and "Password", in a smaller white font. To the right of each label is a white rectangular input field. Below these fields is a blue rectangular button with the word "Login" in white text. The browser's address bar and other interface elements are not visible.

Figure 1: 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 window is a registration form with a red background. It contains the following fields and controls:

- Name :** A white text input field.
- Registration Date** : A date picker showing "Select a date" and the number "15".
- Program Enrol** : A dropdown menu with a downward arrow.
- Address :** A white text input field.
- Contact :** A white text input field.
- Email Id** : A white text input field.
- Enter Student Name.** : A label positioned above the "add" button.
- add** : A blue button.
- Clear** : A blue button.
- Report** : A blue button.

Figure 2: 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

MainWindow

Registration Number :

214

Name :

Registration Date

Select a date15

Program Enrol

Address :

Contact :

Email Id

add

Clear

Report

Show Student Details

Id Number	RegNo	Name	EmailId
5	5	Hello	asdasd@g
6	20	sadhaksjdh	assadd@g
7	213	asdasd	asdasdds

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

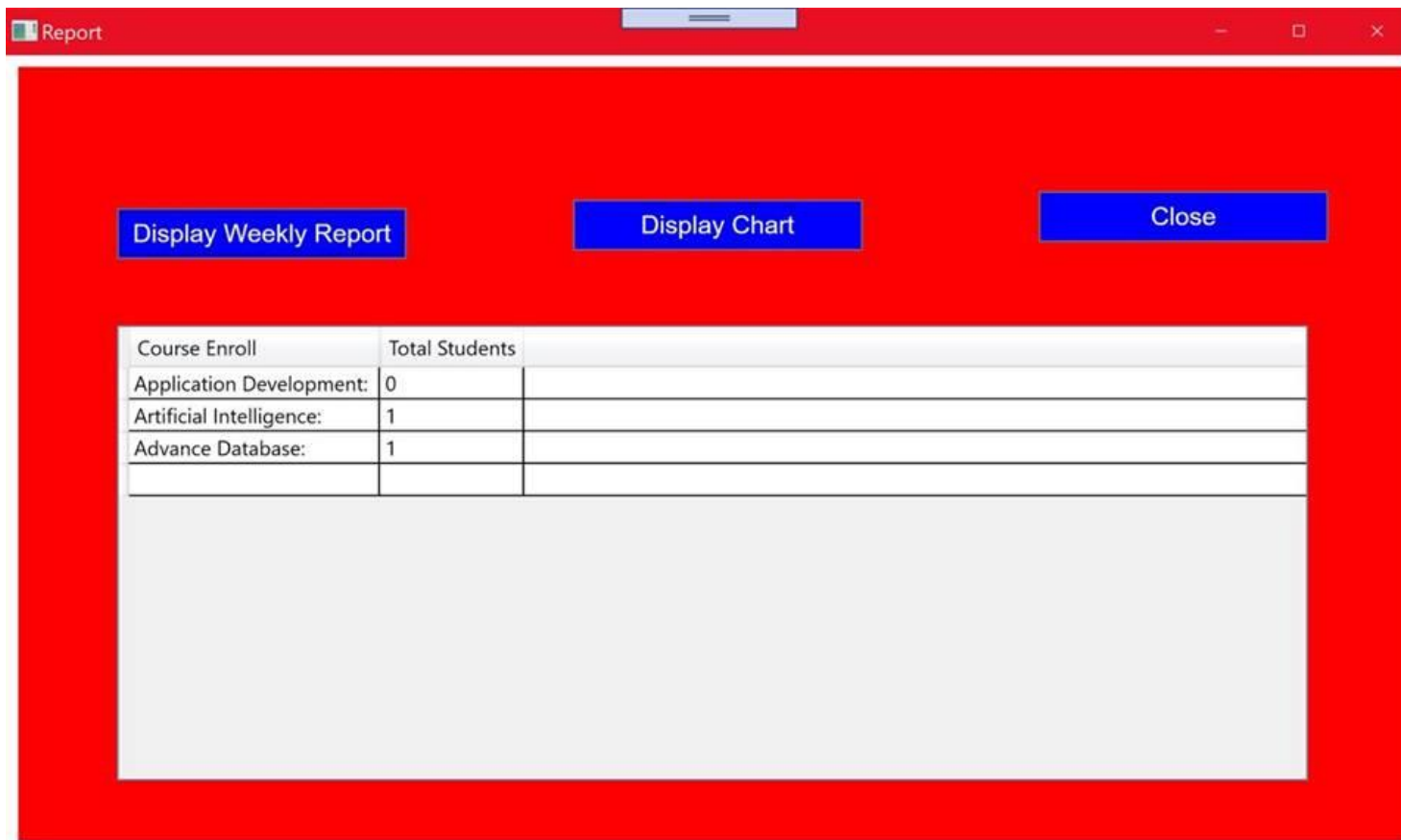


Figure 4: Daily Weekly Report window

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

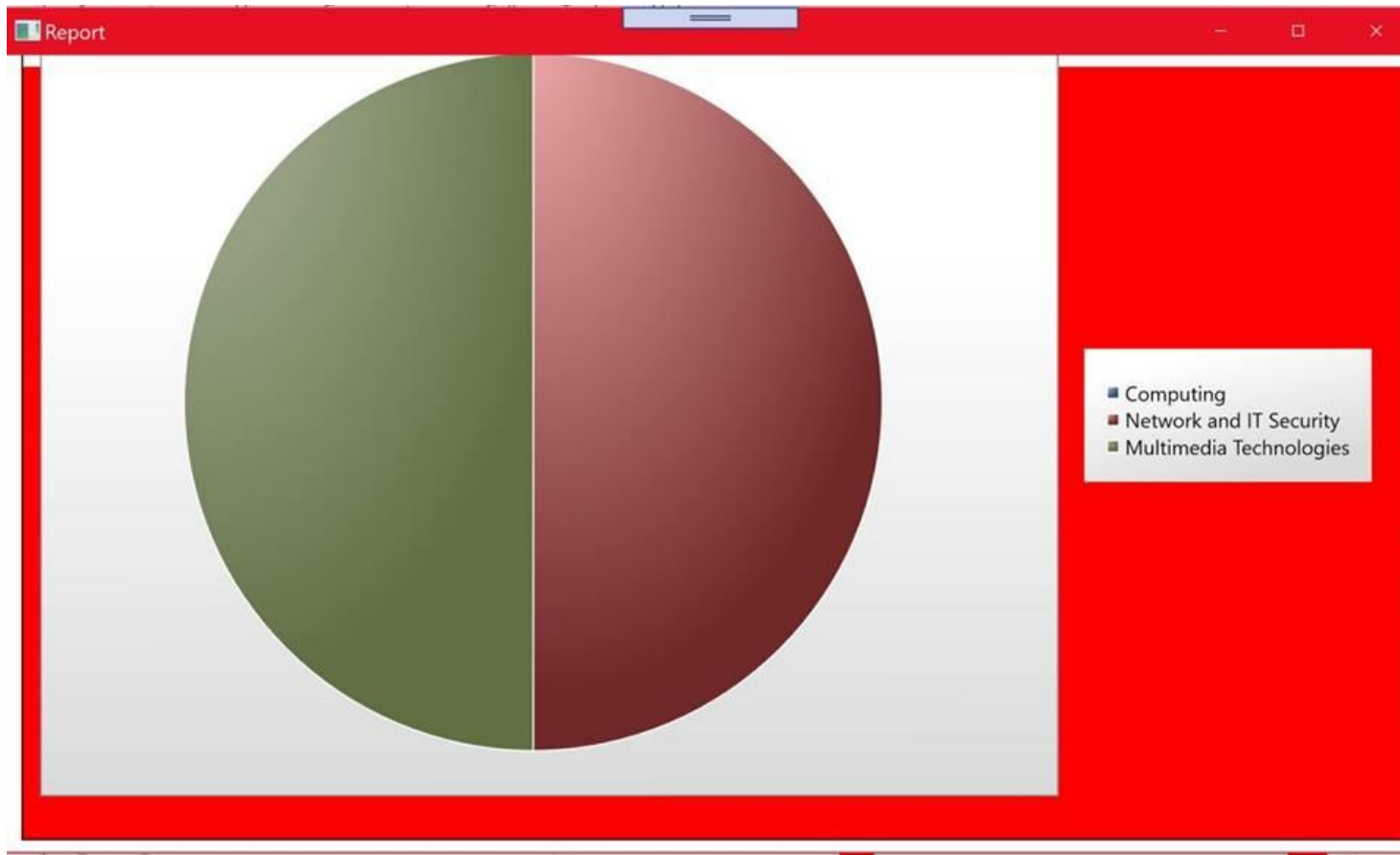
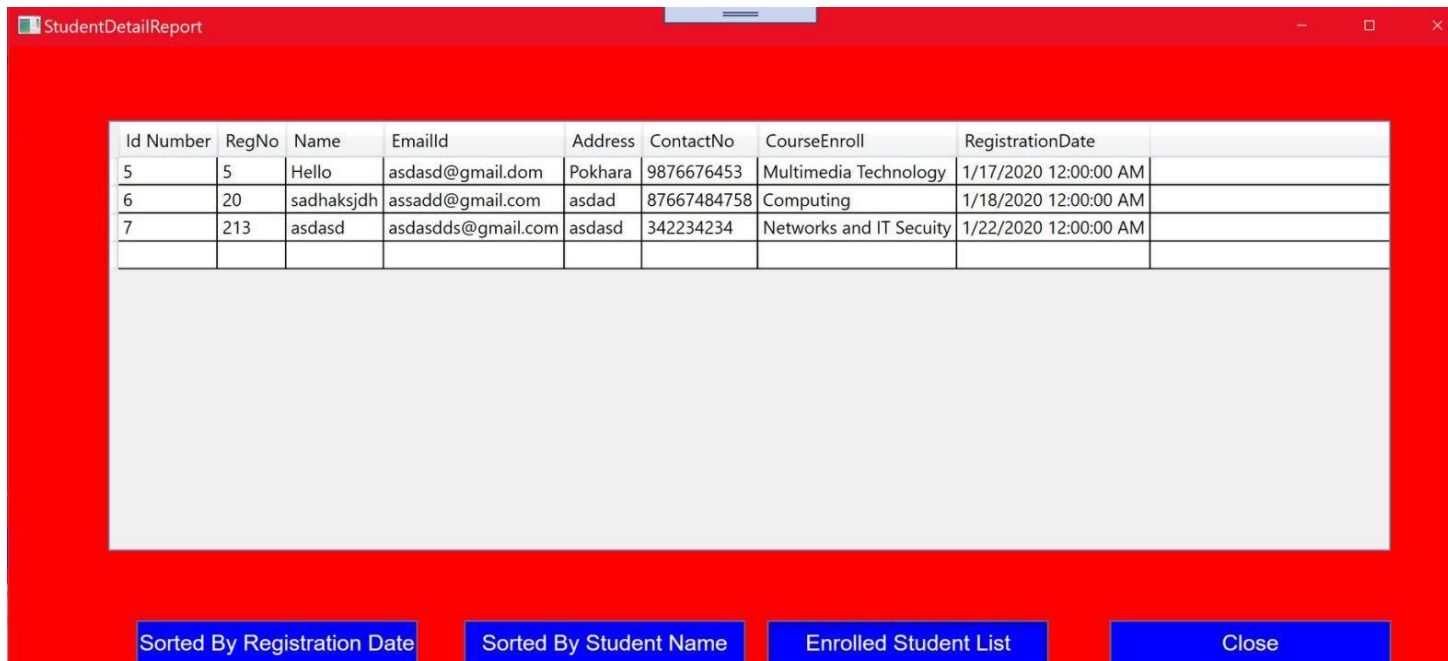


Figure 5: Display chart

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

## Student Detail Report



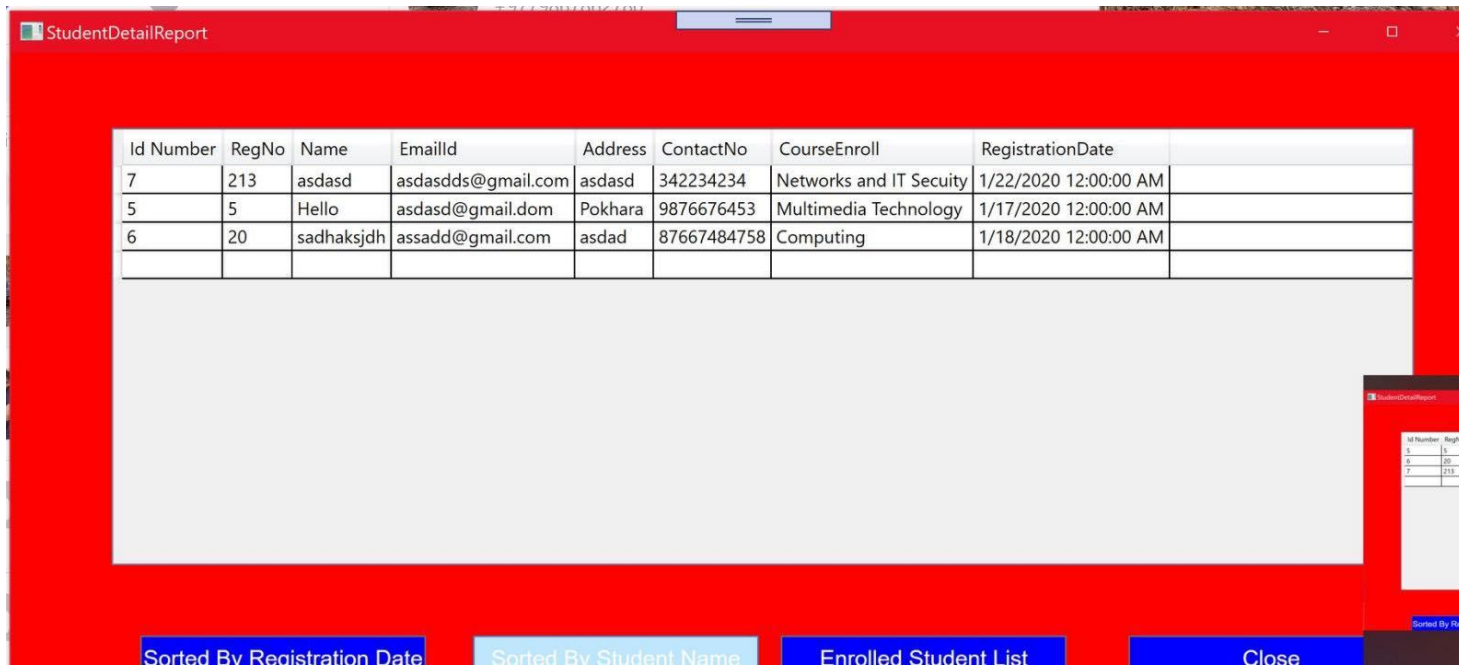
Id Number	RegNo	Name	EmailId	Address	ContactNo	CourseEnroll	RegistrationDate	
5	5	Hello	asdasd@gmail.dom	Pokhara	9876676453	Multimedia Technology	1/17/2020 12:00:00 AM	
6	20	sadhaksjdh	assadd@gmail.com	asdad	87667484758	Computing	1/18/2020 12:00:00 AM	
7	213	asdasd	asdasdds@gmail.com	asdasd	342234234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

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

Figure 6: 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

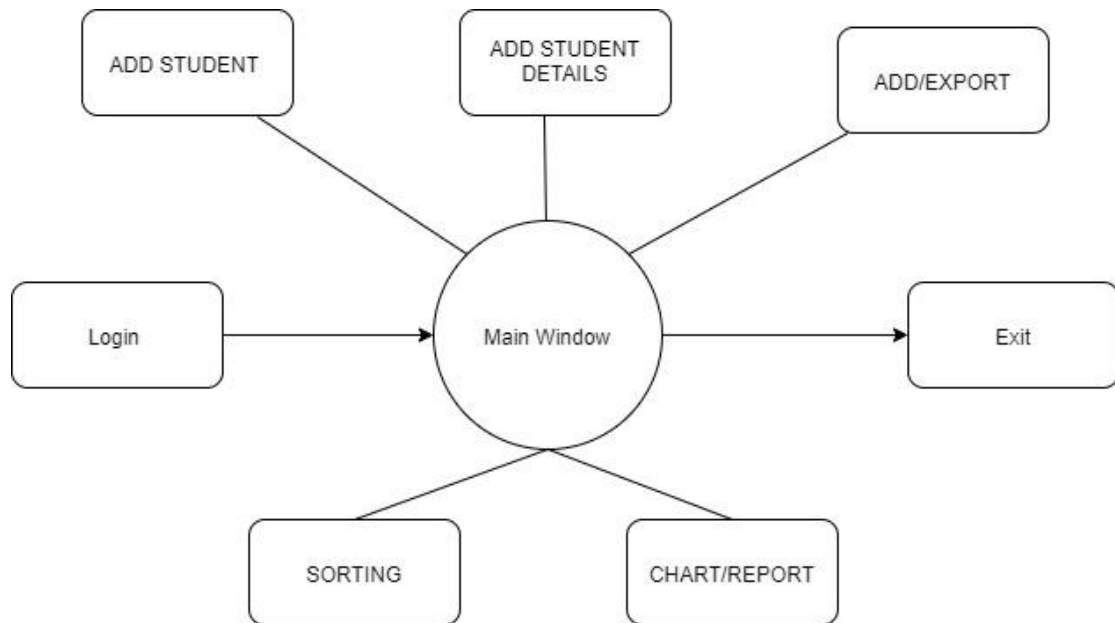


Figure 8: Architecture diagram



## Class Diagram

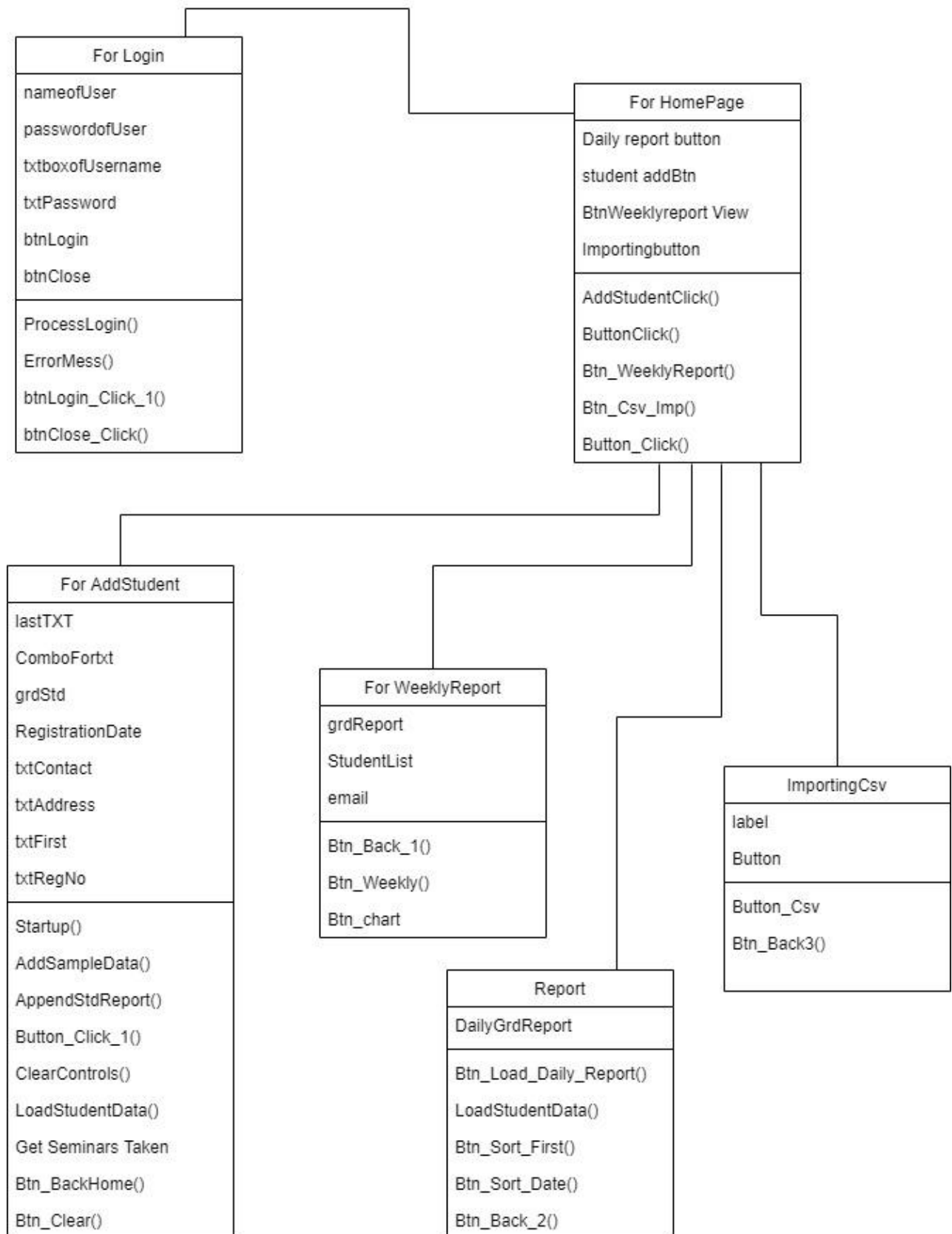


Figure 9: Class diagram

## Flow chart for student enrollment

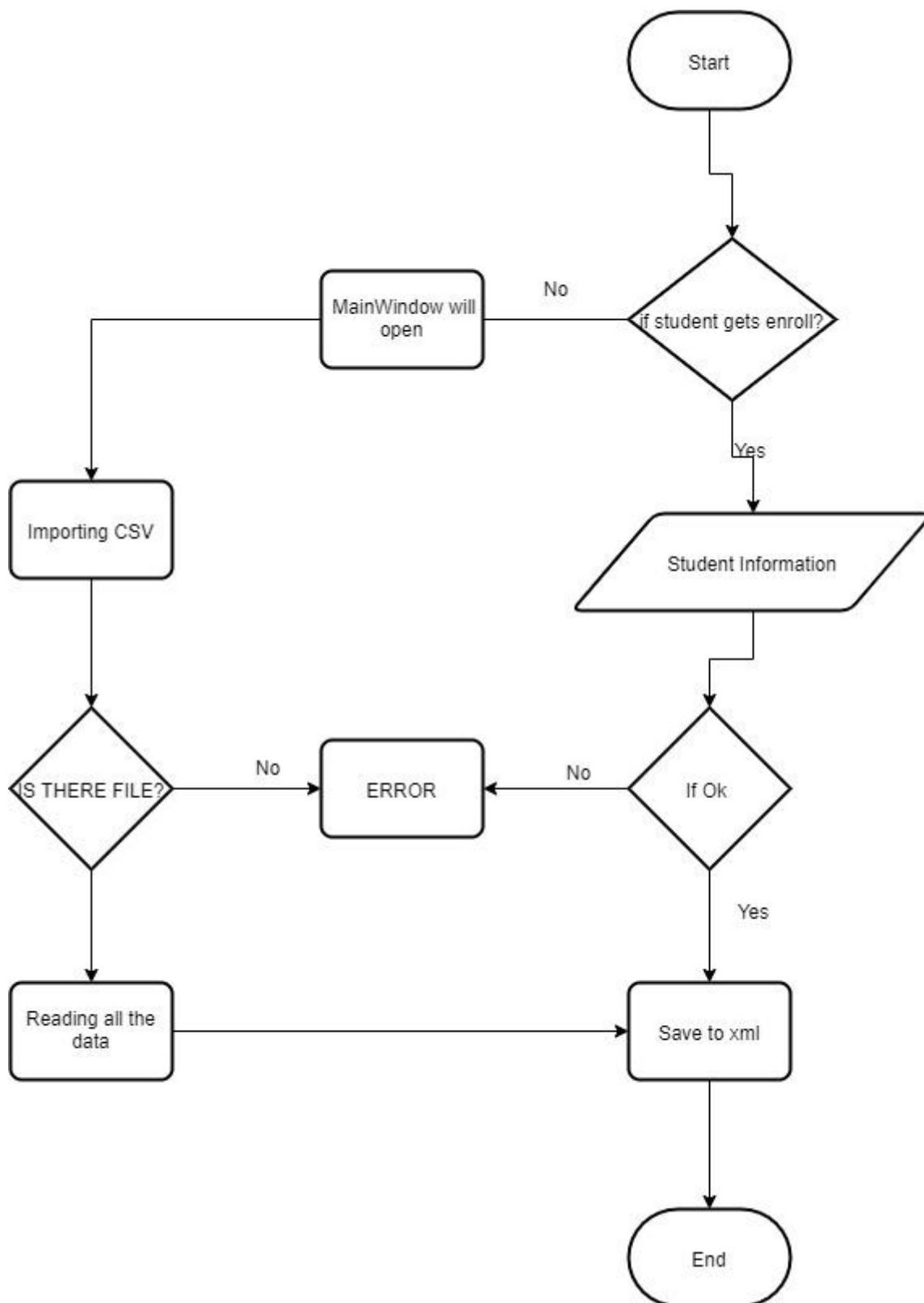


Figure 10: Flow chart for student enrollment

#### **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 algorithm, 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>