



Module Code & Module Title

CS6004NA Application Development

Assessment Weightage & Type

30% Individual Coursework

Year and Semester

2019-20 Autumn

Name: Sujan Adhikari

College ID: NP04CP4A170038

University ID: 17030750

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Abstract

This is an individual course work for the module “Application Development” for Student Information System which is developed using Visual Studio Platform using C# language. The coursework was released on 5th week and is to be submitted on 11th week.

Module leader has supported a lot on doing this task, so a big thank to the module leader for supporting us on doing this project.

Introduction

The developed system to this project is Student Information System. This system is developed by doing all the testing along with the specific features required. It consists of features like adding student details, display student details, import and export student details. Furthermore, there is a feature to view daily and weekly table and chart in which the weekly details of the students are shown. Many other features are described on the report section along with the screenshots of each.

Current Scenario

There are many schools, colleges and other departments where the details of the students are still based on paper work. Which seems to be quite old ways of implementing the system. In order to overcome such problems this system is developed.

Proposed System

It is a system which is designed to overcome the problems of the current scenario. The user has to login first to run this system. The weekly report and the daily report of the students are designed so that the user can easily know the details in easy way.

User Manual

This section contains all the screenshots of the system along with the short description of each.

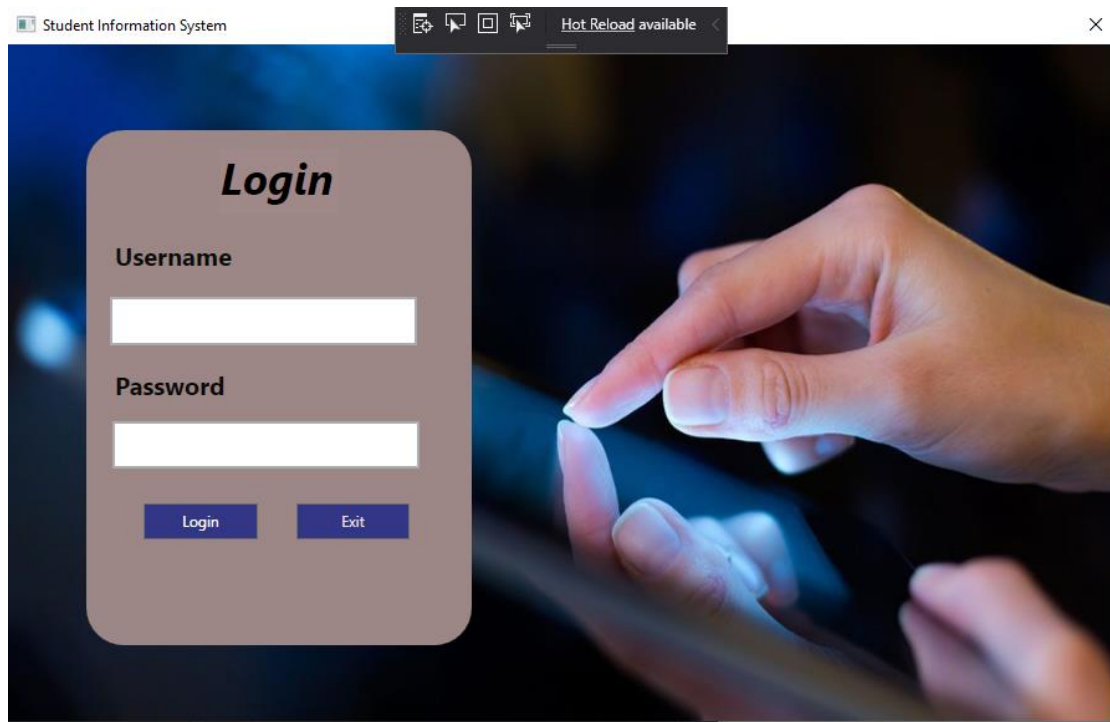


Figure 1: Login Screen

The first screen that appears after operating the system is the login screen. In which the username and password is “admin”. In order to get access to the system the valid username and password is to be filled.

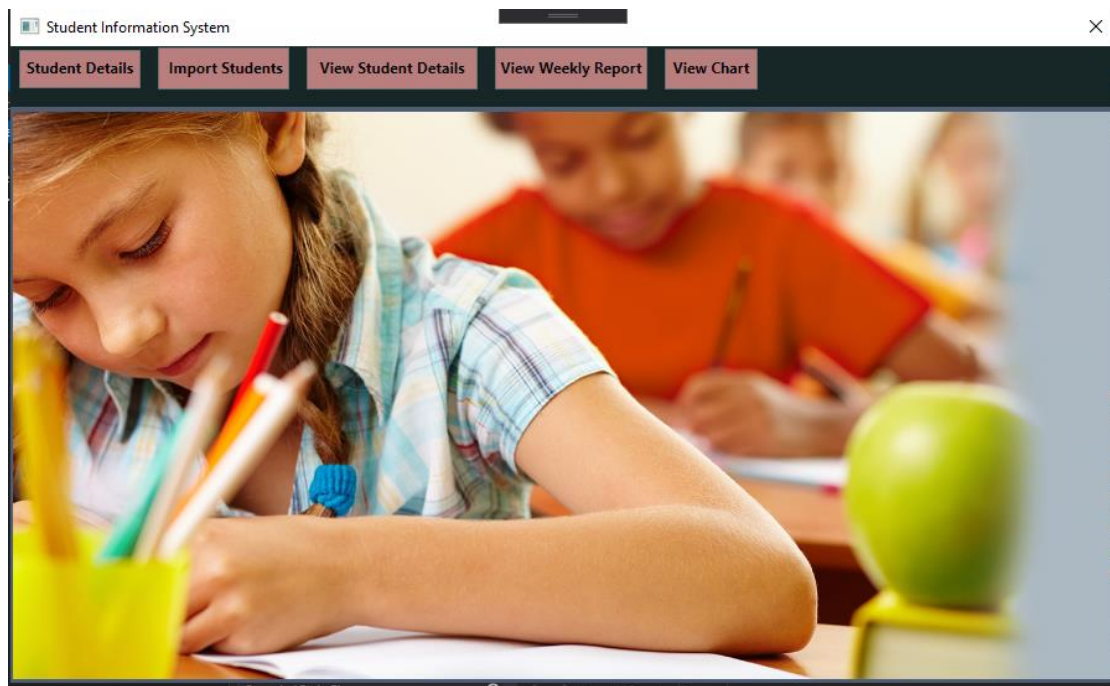


Figure 2: Home Screen

After successful login, the main screen or the home screen is seen.

The screenshot shows the "Add Student Details" form within the "Student Information System" window. The navigation bar is the same as in Figure 2, with "Student Details" highlighted. The form has a light blue background with a subtle pattern and a red ribbon graphic on the right. It contains several input fields: "ID Number:", "First Name:", "Last Name:", "Address:", and "Contact No:". There are also dropdown menus for "Course Enrol:" and "Registration Date:" (which is pre-filled with "1/10/2020"). Below the input fields are two buttons: "Enrol Student" and "Retrieve Data". At the bottom of the form is a table with the following headers: "ID", "First Name", "Last Name", "Address", "Contact no.", "Course Enrolled", and "Registration Date". The table body is currently empty.

Figure 3: Add Student Details

In this part the user fills the detail of the student.

Student Information System

Student Details Import Students View Student Details View Weekly Report View Chart

ID Number: 1 Course Enrol: Application Developr

First Name: Sonu Registration Date: 1/11/2020

Last Name: lama

Address: birauta

Contact No: 9865784577

Enrol Student Retrieve Data

ID	First Name	Last Name	Address	Contact no.	Course Enrolled	Registration Date
1	Sonu	lama	birauta	9865784577	Application Development	1/11/2020

Figure 4: Enrol Student

In this figure the filled data is saved by clicked on the Enrol Button.

Student Information System

Student Details Import Students View Student Details View Weekly Report View Chart

ID Number: 10 Course Enrol: Application Developr

First Name: Sanam Registration Date: 1/10/2020

Last Name: Thapa

Address: Patan

Contact No: 987654321

Enrol Student Retrieve Data

ID	First Name	Last Name	Address	Contact no.	Course Enrolled	Registration Date
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Figure 5: Retrieve Data

In this section when the retrieve button is clicked then the previous filled data are seen.

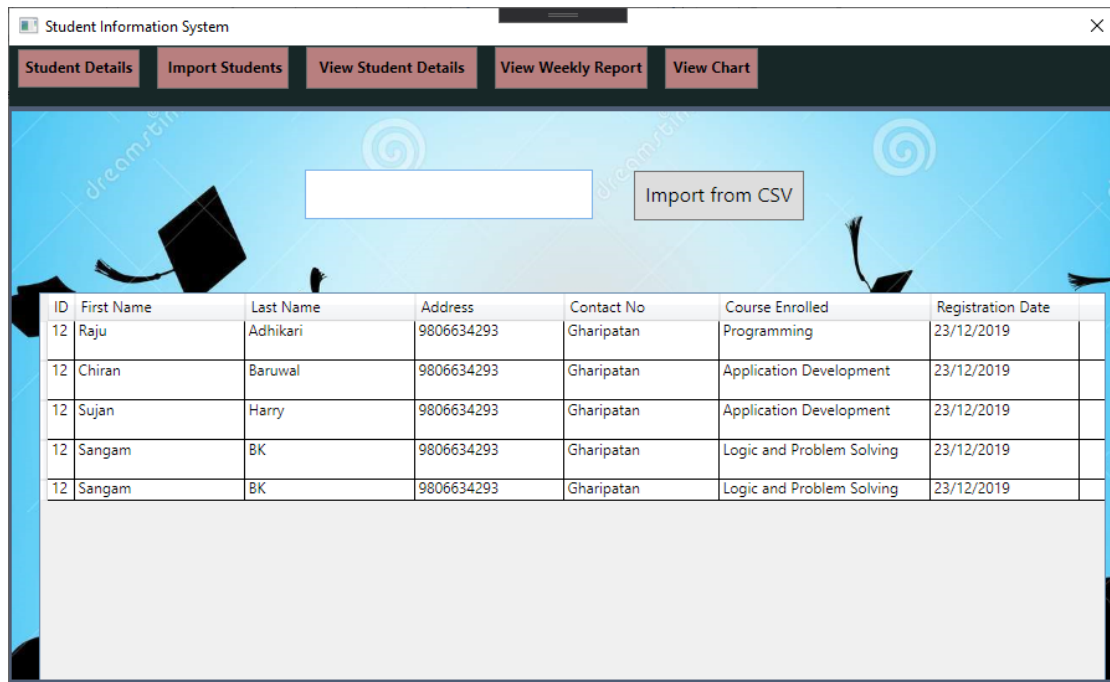


Figure 6: Import from CSV

In this part the data are imported from the csv file.

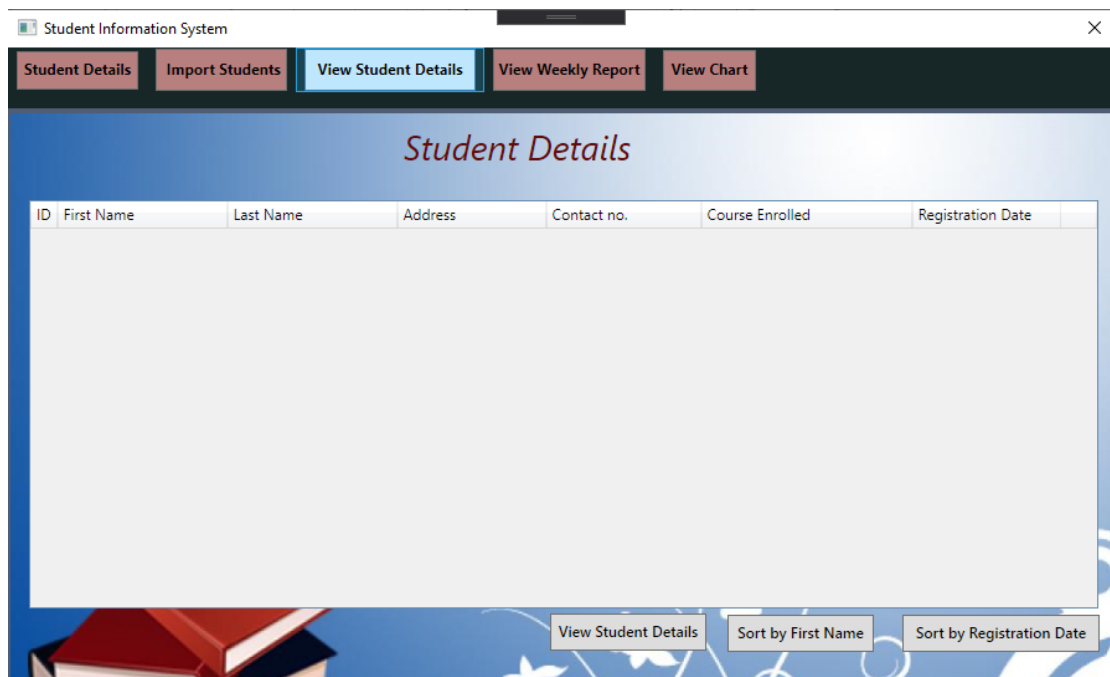
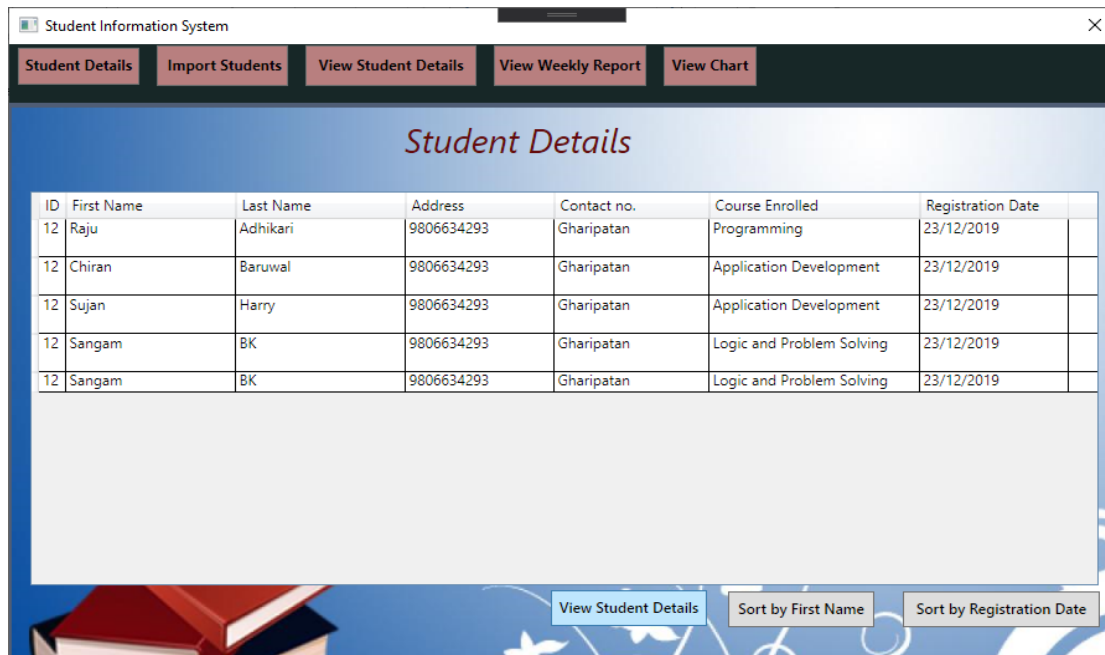


Figure 7: View Student Details

In this section, there are various ways to evaluate the details of the student, such as, view student details, sort by first name and sort by registration.



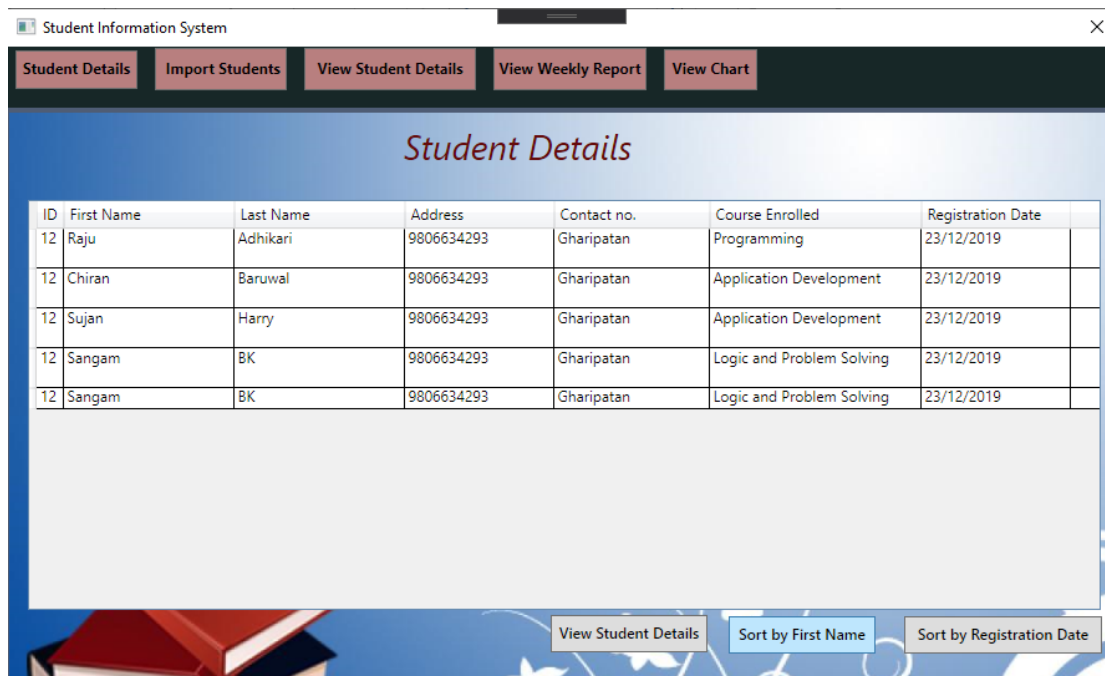
Student Details

ID	First Name	Last Name	Address	Contact no.	Course Enrolled	Registration Date
12	Raju	Adhikari	9806634293	Gharipatan	Programming	23/12/2019
12	Chiran	Baruwal	9806634293	Gharipatan	Application Development	23/12/2019
12	Sujan	Harry	9806634293	Gharipatan	Application Development	23/12/2019
12	Sangam	BK	9806634293	Gharipatan	Logic and Problem Solving	23/12/2019
12	Sangam	BK	9806634293	Gharipatan	Logic and Problem Solving	23/12/2019

View Student Details Sort by First Name Sort by Registration Date

Figure 8: View Student Details in table

By clicking on view student detail, the details of the students are displayed on the table.



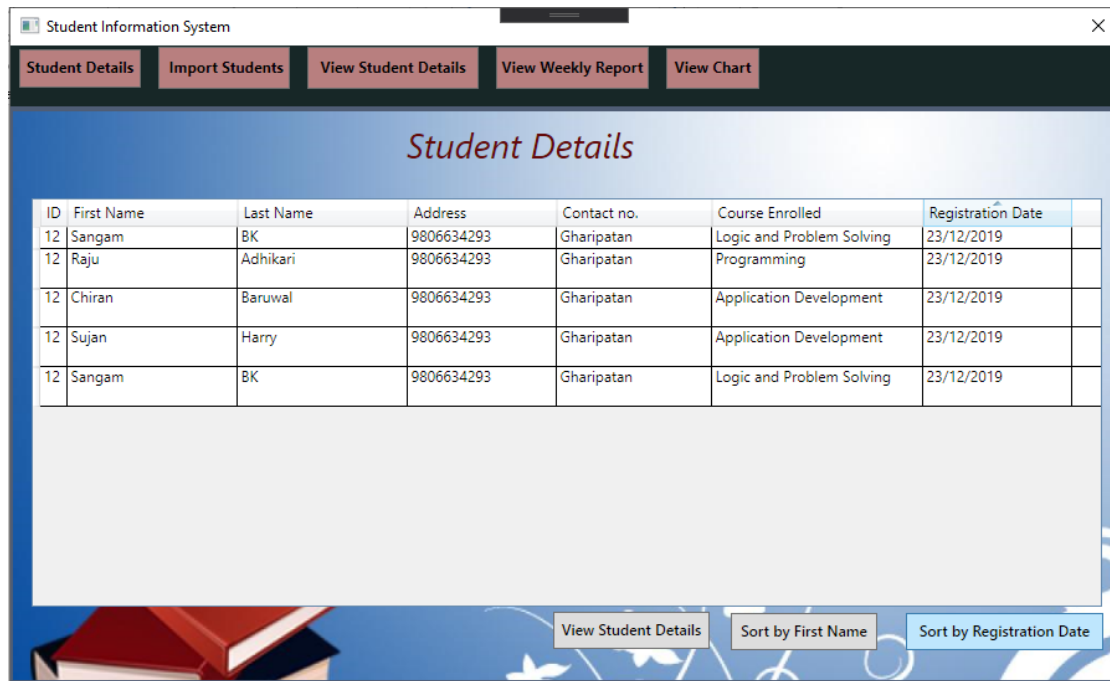
Student Details

ID	First Name	Last Name	Address	Contact no.	Course Enrolled	Registration Date
12	Raju	Adhikari	9806634293	Gharipatan	Programming	23/12/2019
12	Chiran	Baruwal	9806634293	Gharipatan	Application Development	23/12/2019
12	Sujan	Harry	9806634293	Gharipatan	Application Development	23/12/2019
12	Sangam	BK	9806634293	Gharipatan	Logic and Problem Solving	23/12/2019
12	Sangam	BK	9806634293	Gharipatan	Logic and Problem Solving	23/12/2019

View Student Details Sort by First Name Sort by Registration Date

Figure 9: Sort by first name

On clicking on sort by first name the details of the students appear according to their first name.



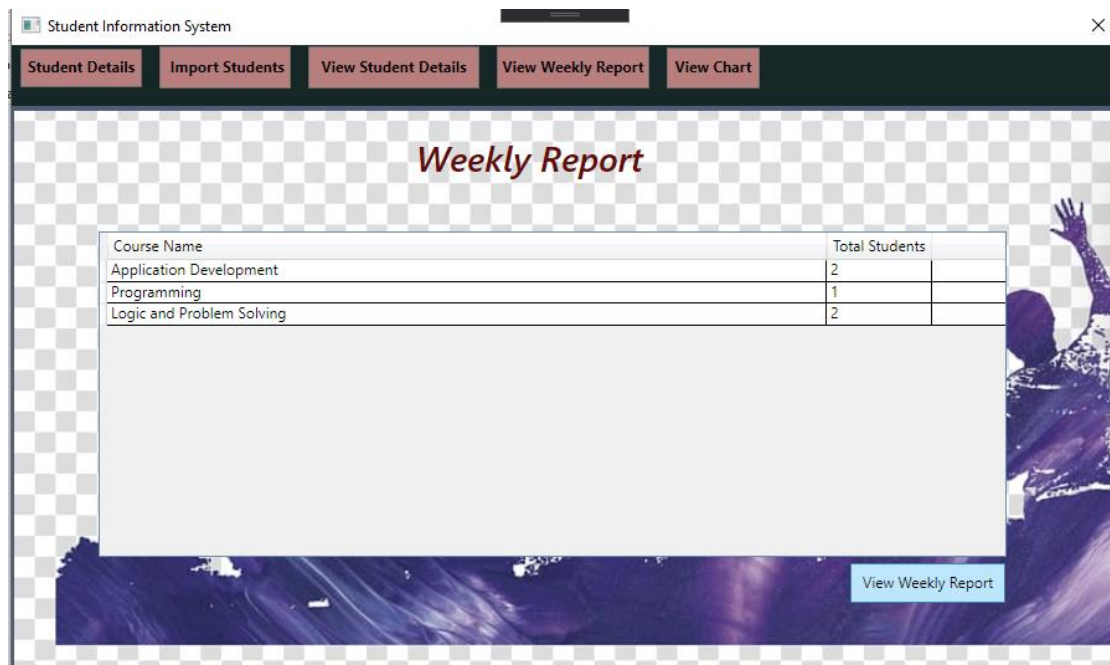
Student Details

ID	First Name	Last Name	Address	Contact no.	Course Enrolled	Registration Date
12	Sangam	BK	9806634293	Gharipatan	Logic and Problem Solving	23/12/2019
12	Raju	Adhikari	9806634293	Gharipatan	Programming	23/12/2019
12	Chiran	Baruwal	9806634293	Gharipatan	Application Development	23/12/2019
12	Sujan	Harry	9806634293	Gharipatan	Application Development	23/12/2019
12	Sangam	BK	9806634293	Gharipatan	Logic and Problem Solving	23/12/2019

View Student Details Sort by First Name Sort by Registration Date

Figure 10: Sort by Registration Date

In this part, when sort by registration date button is clicked then the details are shown according to their registration date.



Weekly Report

Course Name	Total Students
Application Development	2
Programming	1
Logic and Problem Solving	2

View Weekly Report

Figure 11: View Weekly Report

In this phase, after clicking on the view weekly report button, the details of the course name along with the total number of students is seen in the table.

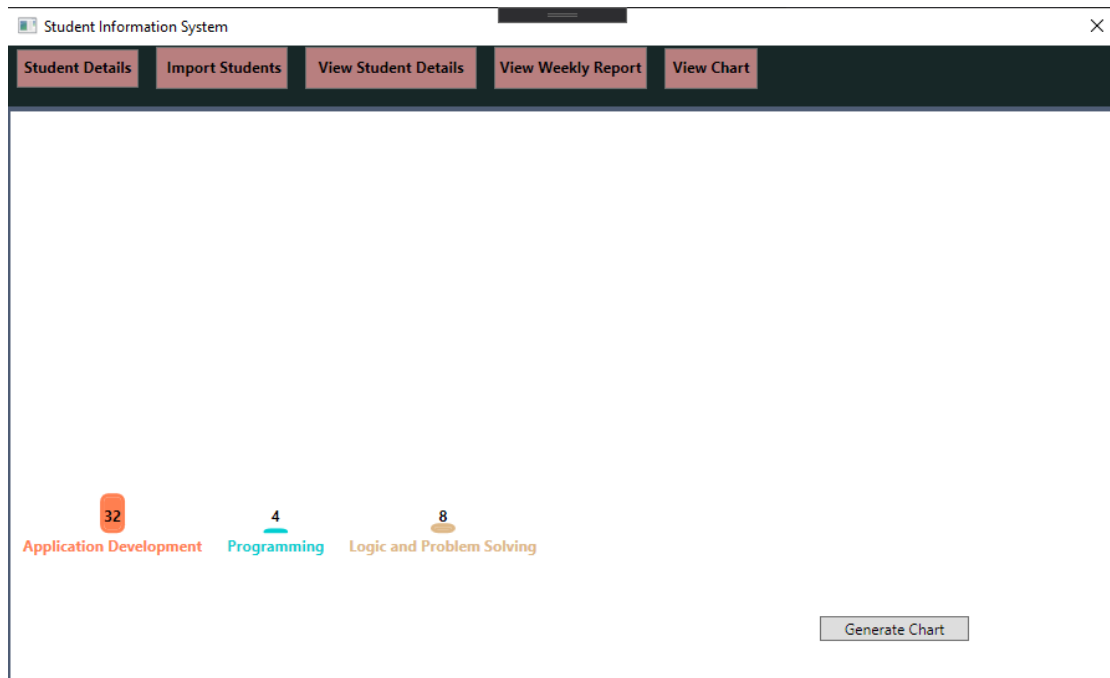


Figure 12: Generate Chart

When the user clicks on the Generate Chart button then the bar graph chart appears on the screen.

So, these were the screenshots of the system in which every button and their functions are shown. A user can easily operate this system as it is highly user interface.

System Architecture

Architecture Diagram

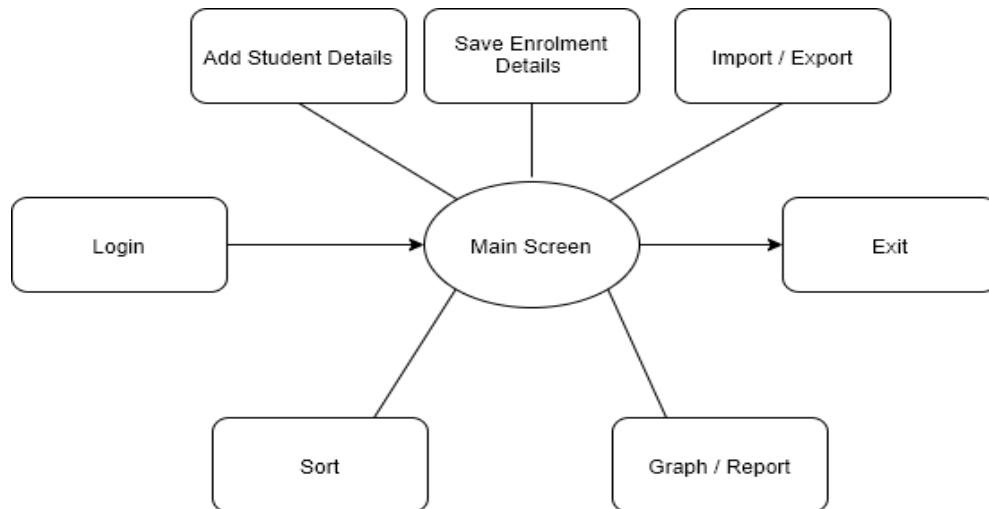


Figure 13: Artificial Diagram

Class Diagram

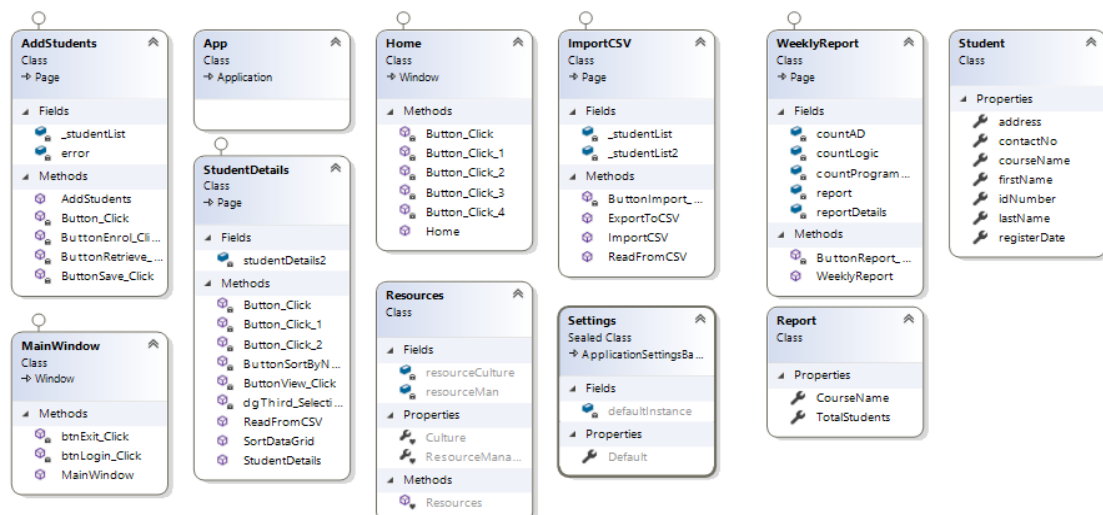


Figure 14: Class Diagram

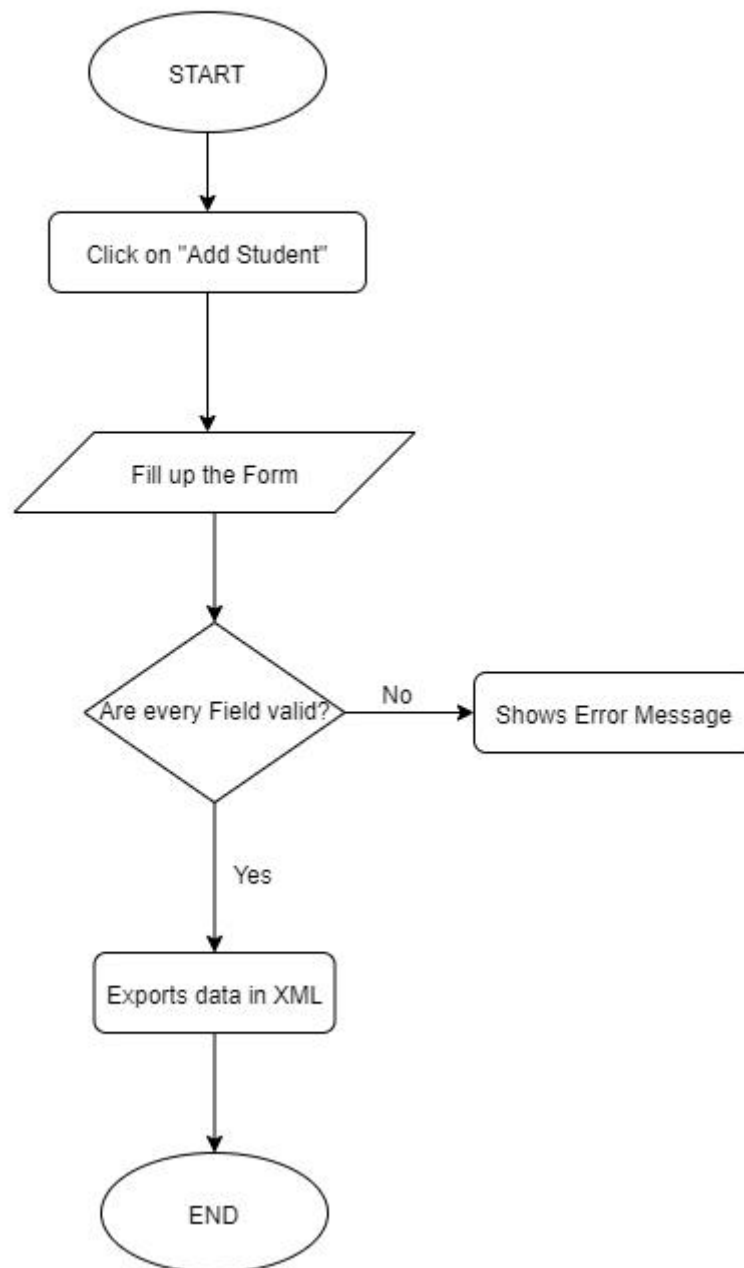
Flowchart for Enrol Student**Flowchart Diagram**

Figure 15: Flowchart for Enrol Student Details

Reflection

The system which I have developed is Student Information System. This task is built in C# language using Visual Studio 2019. This system shows how the student details are managed in the real working environment. The system is highly user interface and the features included are easy to use. Overall the system is very simple and easy to operate.

This system has the facility of adding the student details where the user fills all the details of the student such as First name, Last Name, Address, Subject and the registered date of that particular information. The details of the students are enrolled after clicking on the Enrol button. A user can also visit the chart to check the daily and the weekly details of the students along with the detail list of the student.

Lots of videos and websites are visited to do this project in correct manner. At first, it was quite difficult for me to make the system and operate it. Since, we have been doing the other tasks on visual studio I was quite habitual about the code editor i.e. Visual Studio. With the help of module leader and the regular lecture, tutorial and lab classes I am able to complete this task on time with the error free codes and the specific functions of the buttons which were added while developing the system.

Conclusion:

Finally, the task is completed and the user interface designed UI system is developed. This system includes the login phase, the main screen which contains various function Such as adding student detail, viewing the student details, weekly report and daily report. All the buttons and have their own specific functions which are done in this task in a good way along with the popup message on clicking on the button.

This system is helpful for small and big management system where the daily data are to be stored on specific file and while running the system the and using the functions all the details are seen. This coursework would be impossible to complete without the support of our module leader Mr. Ishwor Sapkota. So, I would like to thank to our module leader for supporting us in doing this task.