Informatics College Pokhara

informatics
college   pokhara

Application Development

CS6004NI

Course Work 1

Submitted By: Sujan Adhakari
London Met ID: Enter ID Here

Submitted To: Ishwor Sapkota
Module Leader

Component Grade and Comments	
A. Implementation of Application	
User Interface and proper controls used for designing	User Interface is complete but not separated and have proper use of controls
Manual data entry or import from csv	appropriate use of data types but missing some properties required or missing CRUD operation
Data Validation	Only basic validation
Enrollment Report & weekly report in tabular format	very poorly executed reports and data not shown accurately
Course wise enrollment report & Chart display	Very poorly designed and only contains one report format with in appropriate data
Algorithm used for sorting & proper sorting of data	Default sorting provided by .net is used
B. Documentation	
User Manual for running the application	User Manual is below average. Is textual only.

Marking Scheme

Application architecture & description of the classes ad methods sued	average work with very limited explanation of the classes and methods used
Flow chart, algoriathms and data sctructures used	very poorly explained and no diagramatic representation
Reflective essay	Very poorly written

C. Programming Style

Clarity of code,Popper Naming convention & comments	very poorly written code and no comments at all
System Usability	very poorly developed application

Overall Grade:	E+ E+

Overall Comment:

Code should be self explainable with less comments. Need some proper naming of the component 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

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

Table of Contents

List of Figures

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.
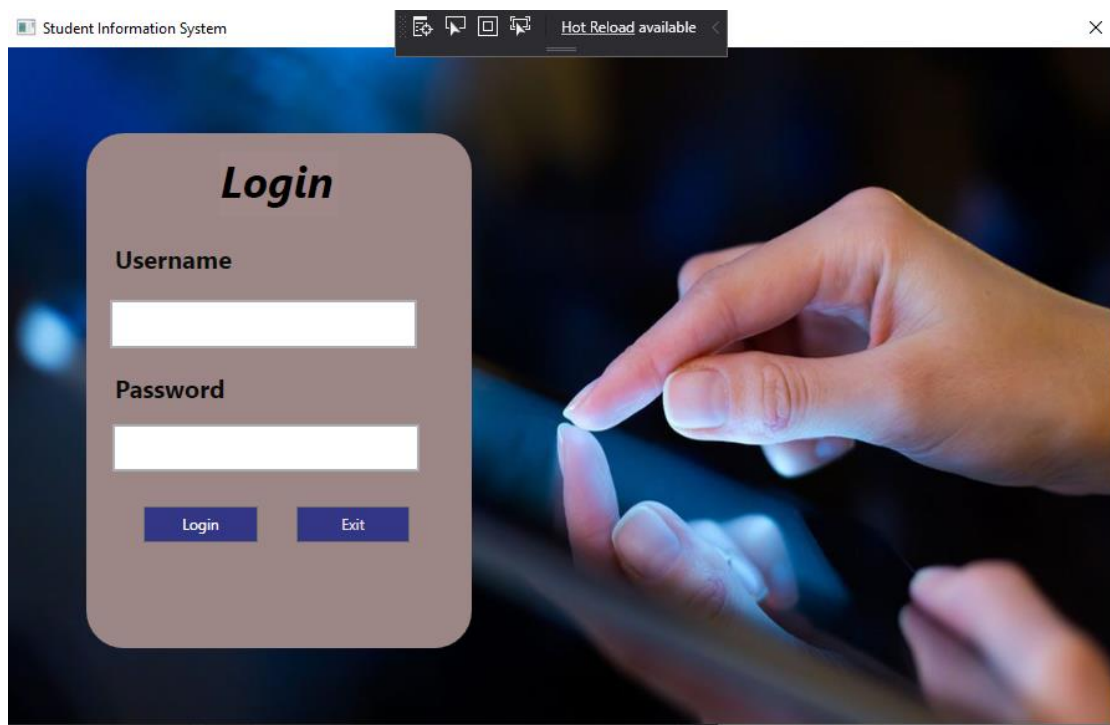
Figure 1: Login Screen

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.
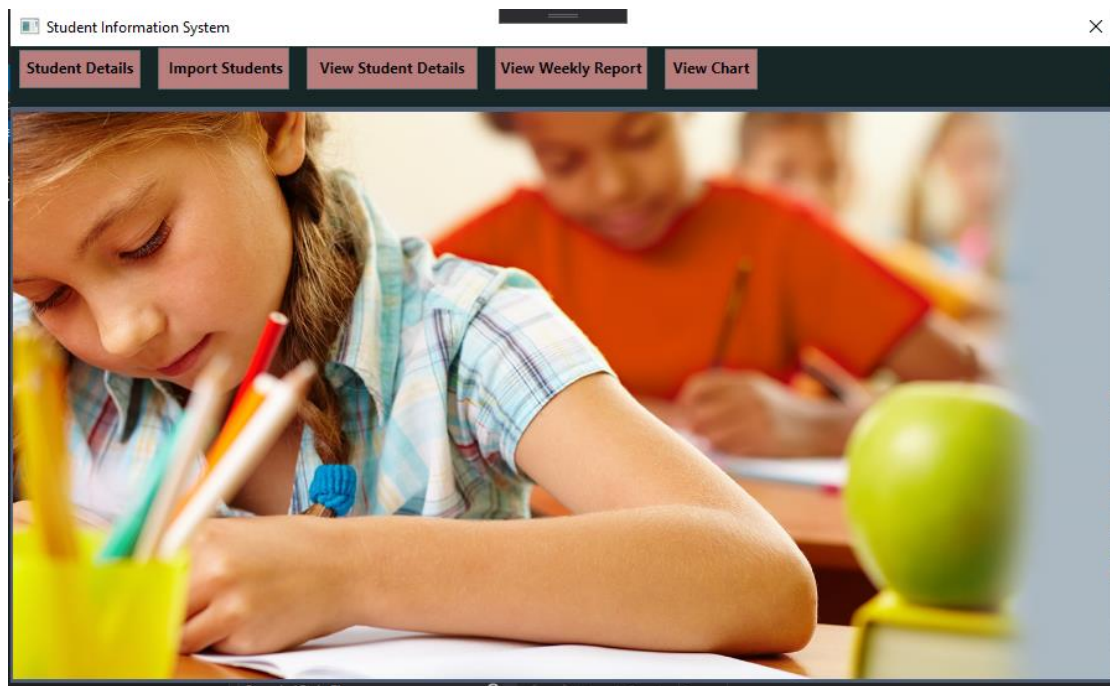
Figure 2: Home Screen

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

Figure 3: Add Student Details

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

Figure 4: Enrol Student

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

Figure 5: Retrieve Data

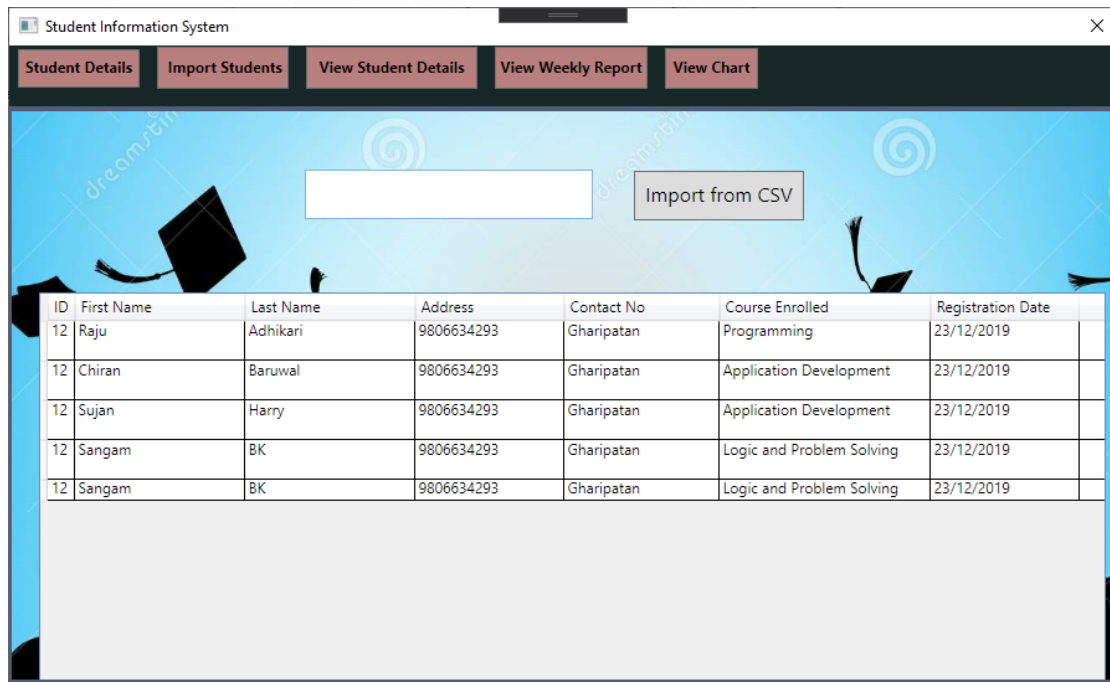In this section when the retrieve button is clicked then the previous filled data are seen.

Figure 6: Import from CSV
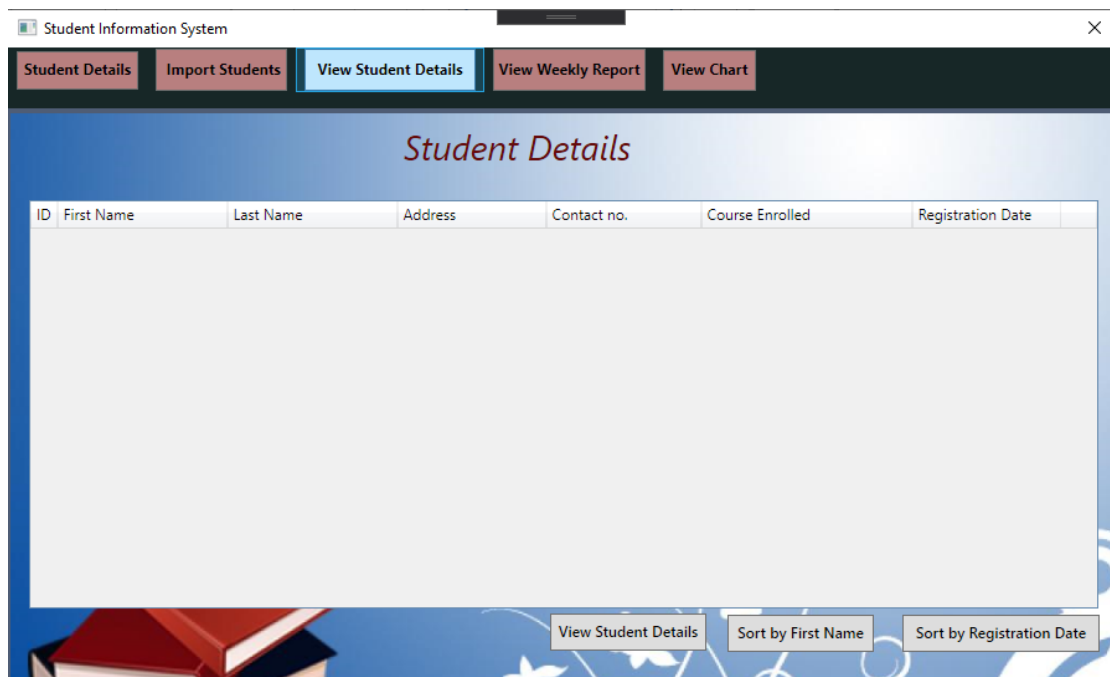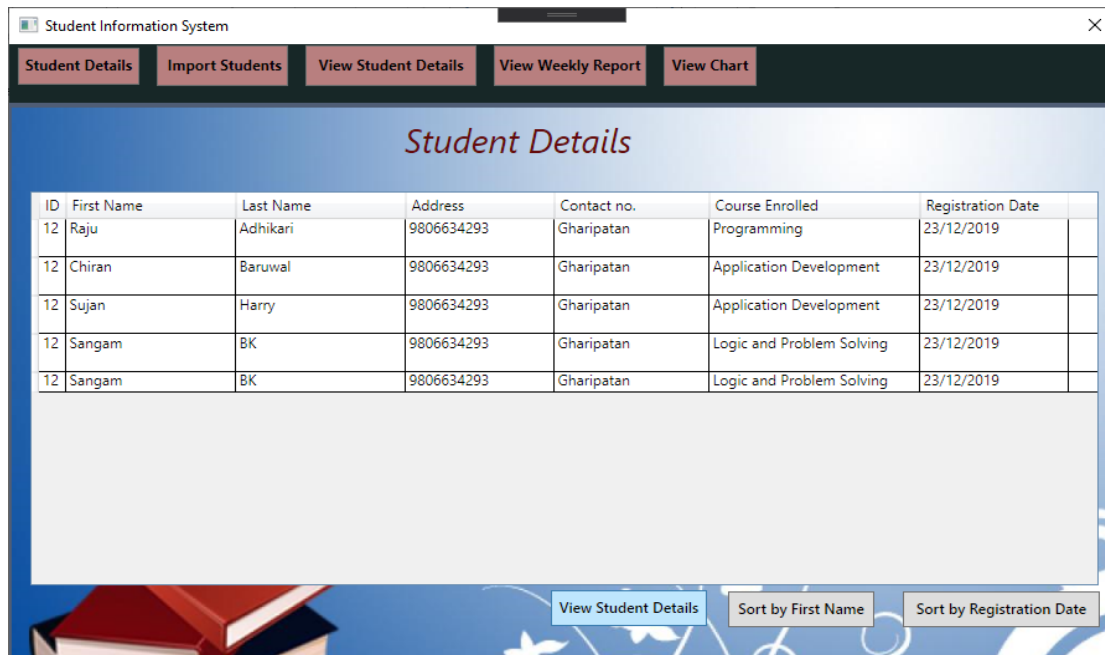
In this part the data are imported from the csv file.

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.
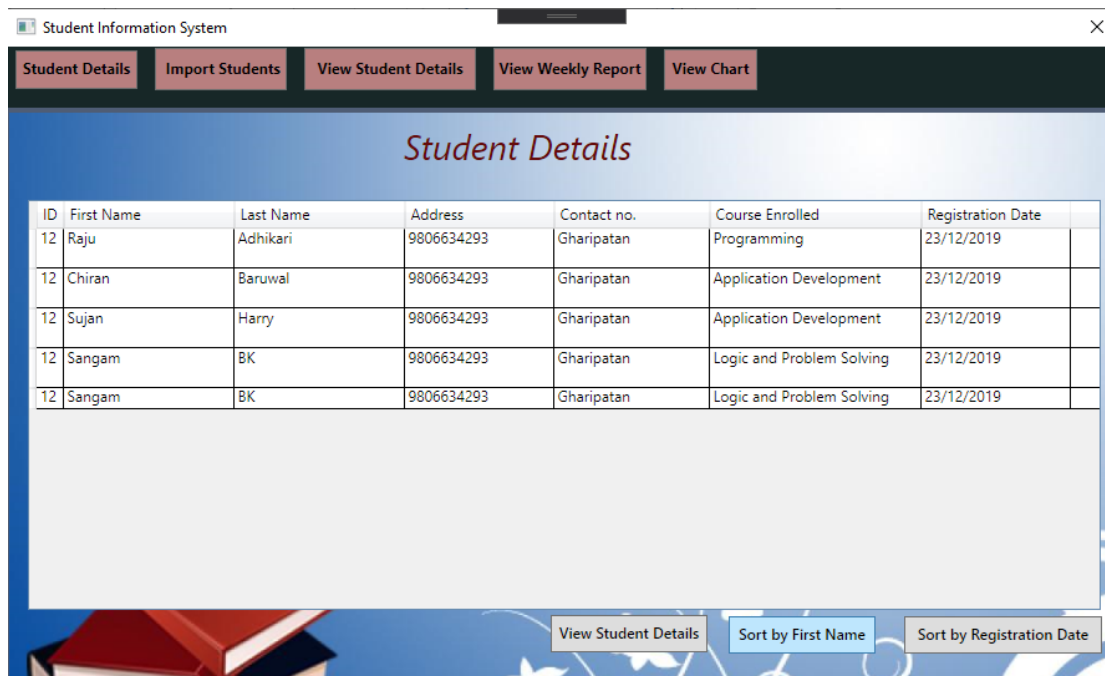
Figure 8: View Student Details in table

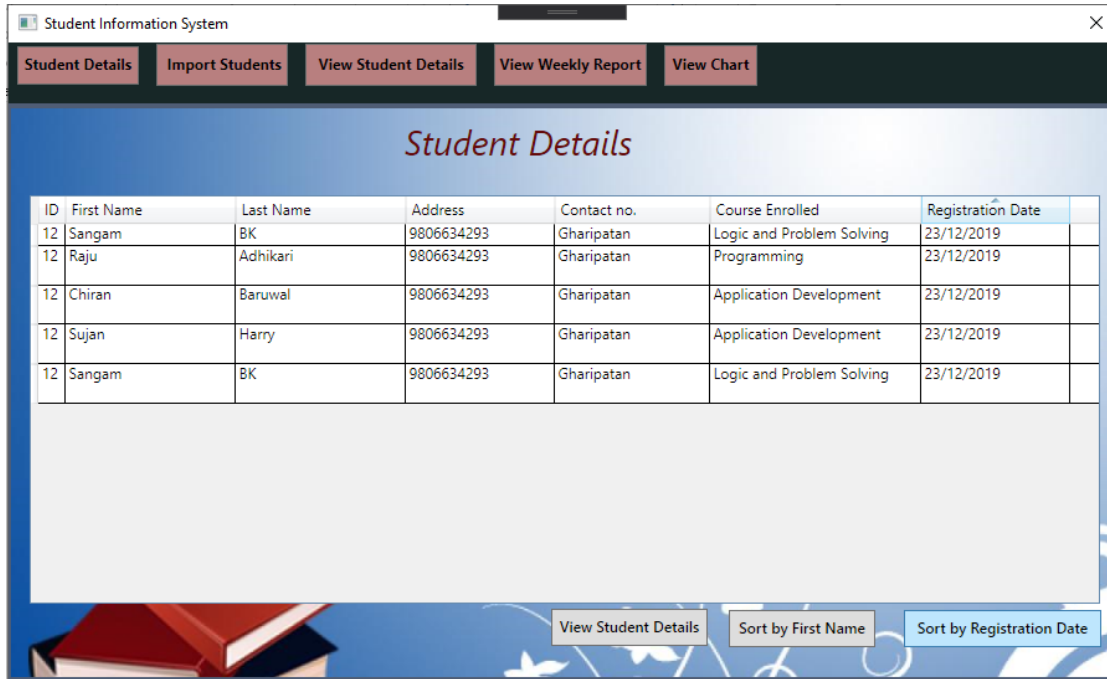By clicking on view student detail, the details of the students are displayed on the table.

Figure 9: Sort by first name

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

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.

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.
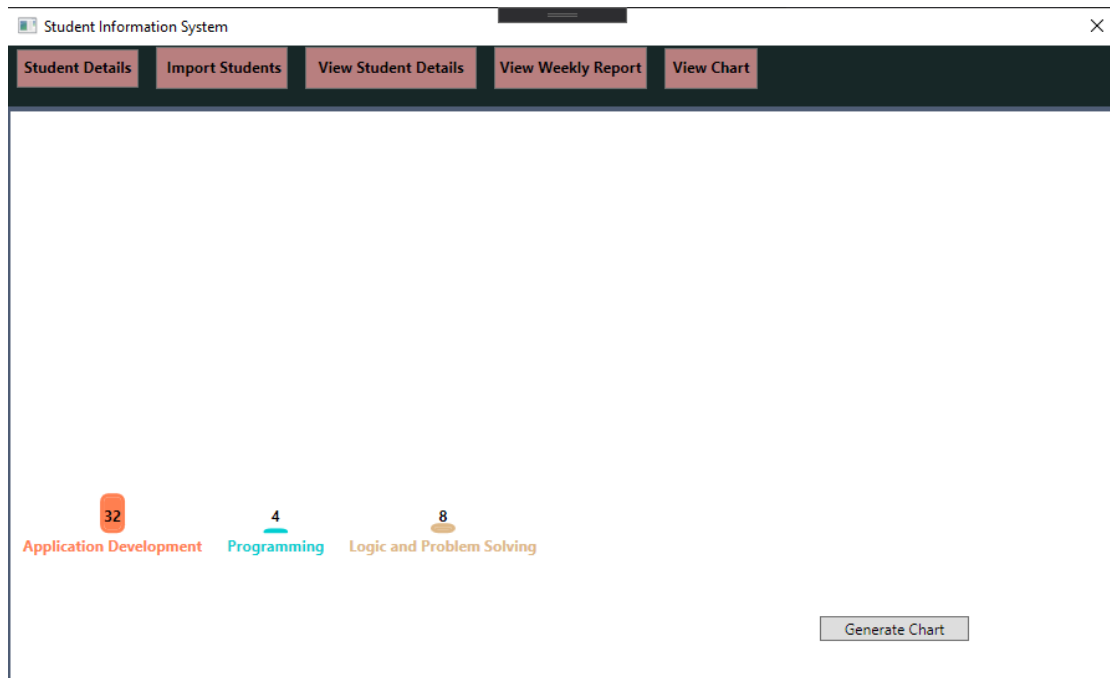
Figure 12: Generate Chart

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

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.
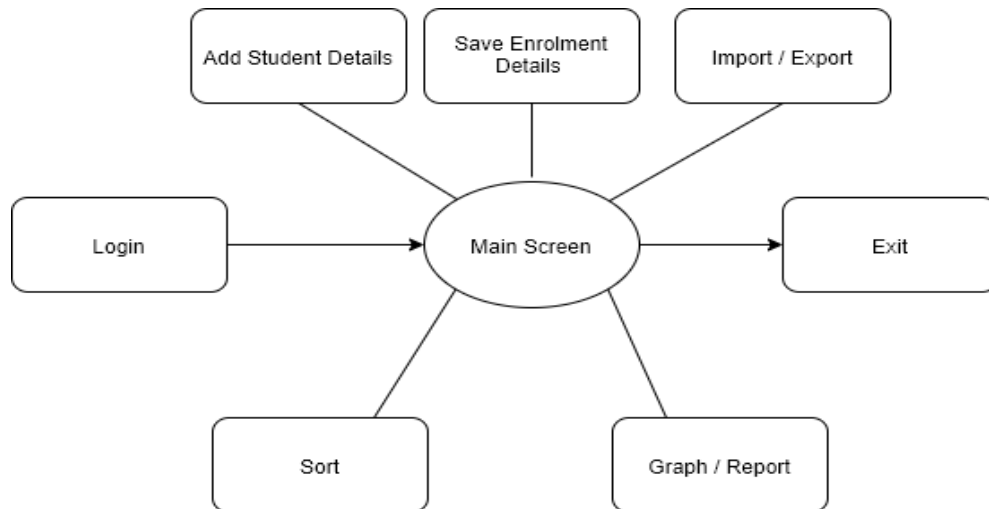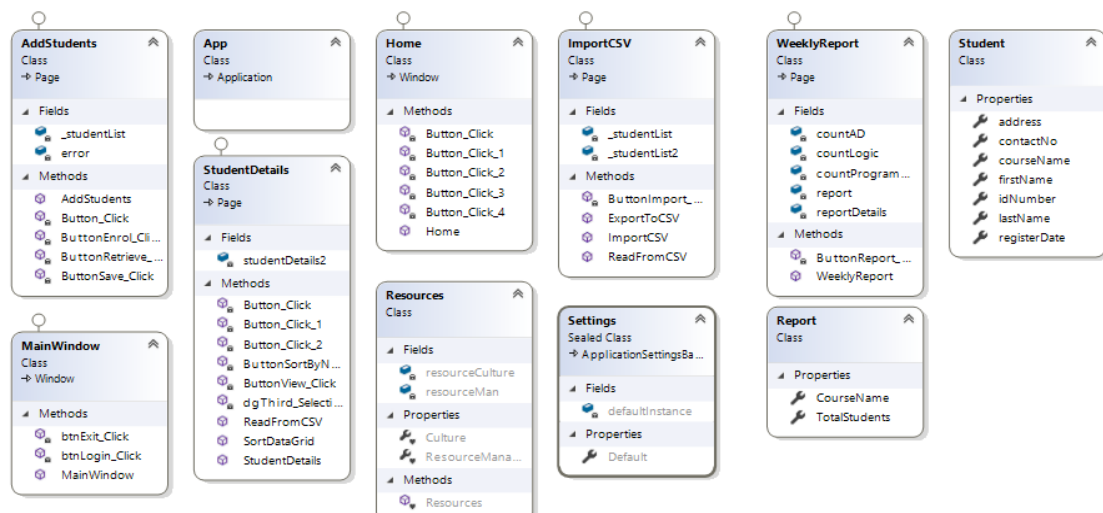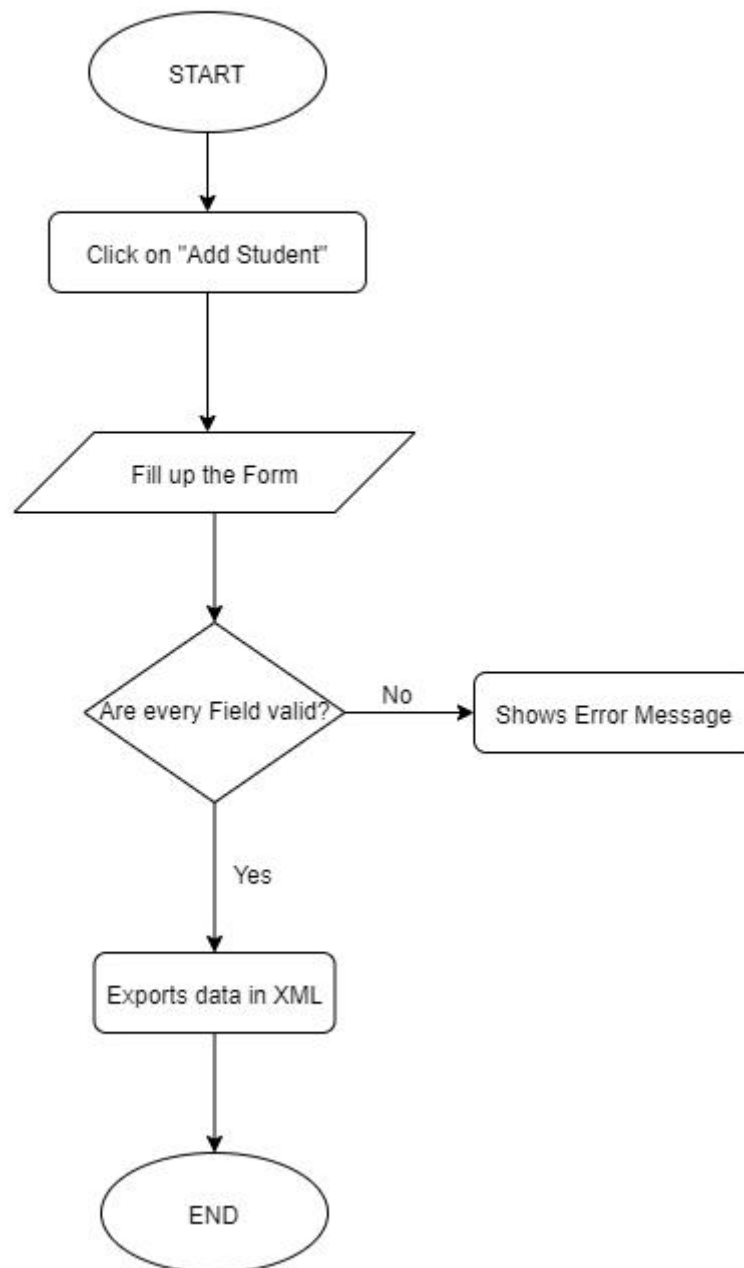
This system has the facility of adding the student details where the user fills all the details of the student such as First name, Last Name, Address, Subject and the registered date of that particular information. The details of the students are enrolled after clicking on the Enrol button. A user can 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.