Informatics College Pokhara



Application Development

CS6004NA

Coursework 1

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Application Development

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1. INTRODUCTION

The Student Information System plays an important role in tracing the data and the personal information of the student. This system is designed to create and display the data according to the input in the graphical representation. The user must be able to input their data and the program must be able to display the weekly report on this basis. This can help user to sort the data in more easy and faster way which can be really helpful in educational institute. This system was designed in C# and must be able to perform the basic functions that are required to edit and add in the program. This will help user to get display the weekly report on the basis of different data like registration date, id, name and other similar data.

1.1 Current Scenario

In the context of Nepal, we can be optimistic about the use of such system in different educational organization as everyone are trying to get more advanced. Different colleges and schools are trying to upgrade their system in more advanced way to store and handle the report of their student. As the competition is growing more and more the students will be attracted more towards such institute which are taking their system in more advanced way. So the use of such system has a bigger prospect in the current scenario.

1.2 Proposed System

This system can help in lot of educational sector in today market. Now the system can be used to make data retrieve and display of the student in quick way. This will help to reduce the chance of error by the great margin as everything will now be in computer format. This will also make easier for the user to handle and search the information of student without any hassle.

2. USER MANUAL

Screenshots are displayed below:

2.1 Login Screen



Figure 1:Login Screen

This section is where the user have to input their login user name and password to get access.

MainWindow Hot Reload available 16 amarsingh chowk Registration Number Address Amit 9816678128 Name Contact: Registration Date Email Id tamit@gmail.com Program Enrol Computing Clear Report Show Student Details add Id Number RegNo Name Emailld Address ContactNo CourseEnroll RegistrationDate Multimedia Technology 1/17/2020 12:00:00 AM asdsad asdsad asdasd asdasdas Computing 1/16/2020 12:00:00 AM Multimedia Technology 1/16/2020 12:00:00 AM asdasd dasdasd asdsad asdas Networks and IT Secuity 1/16/2020 12:00:00 AM asdasd asdasd asdasd sdasd asd asda Networks and IT Secuity Networks and IT Secuity

2.2 Main Window

Figure 2:Main Screen

The main screen provides user to input basic details like registration number, name registration date, Page enroll, Address, Contact, Email Id and also allow to add clear and show the details like Report and Student Details.

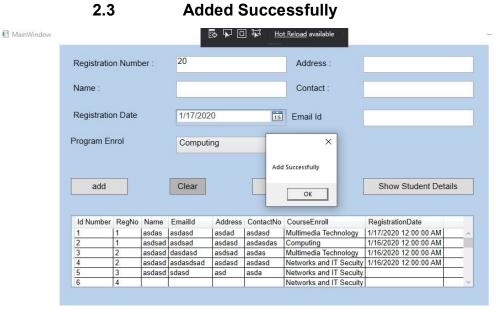


Figure 3:Added Successfully

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

2.4 Report Window

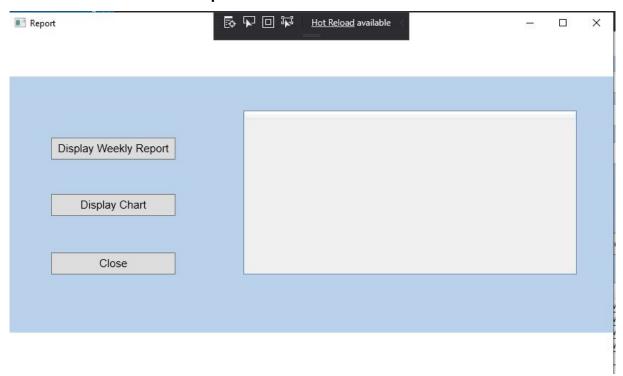
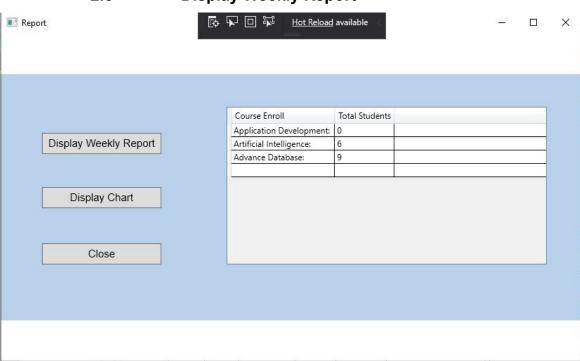


Figure 4:Report Window

After the main window operation is performed there is a report window button which clicked then the above window appears. In this window, we can see weekly report and chart.



2.5 Display Weekly Report

Figure 5:Display Weekly Report

In this section the weekly report is shown where we can see the total number of students that has been enrolled in the courses.

2.6 Display Chart

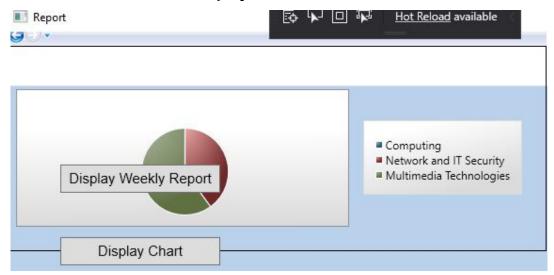


Figure 6:Display chart

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

Student Detail Report StudentDetailReport Hot Reload available Enrolled Student List Sorted By Registration Date Sorted By Student Name Close

Figure 7:Student Detail Report

This is just the main window for Student Detail Report which contains the section like enrolling the student, sorting by registration date and sorting by student name.

Hot Reload available StudentDetailReport × ld Number RegNo Name Emailld Address ContactNo CourseEnroll RegistrationDate Networks and IT Secuity q2@gm.com asdsad Multimedia Technology 1/23/2020 12:00:00 **Enrolled Student List** 8 asdasd asda 2131 Multimedia Technology asd 9 Multimedia Technology asdsad asd asdasd 10 99 yth gfhtymg gfhn Networks and IT Secuity 1/23/2020 12:00:00 Sorted By Registration Date 11 asdasd asdasd@gmail.com asda asasdasd Multimedia Technology 1/16/2020 12:00:00 12 9816678128 Multimedia Technology 1/11/2020 12:00:00 Amit Thapa amit@gmail.com amarsingh 13 987726723 Multimedia Technology 1/11/2020 12:00:00 lakpa 13 lakpa@gmail.com asdcf Sorted By Student Name 14 14 sdf fafsd@gmail.com dvdf sdfsd Computing 1/1/2020 12:00:00 15 15 dsggfd bifas@gmail.com asdf asfdas Computing 1/1/2020 12:00:00 16 bisahl@gmail.com dfgvz dgfsdgfd 1/4/2020 12:00:00 ZVZCX Computing Close 17 1/8/2020 12:00:00 zdfgd iahsdf@gmail.com zd Computing dvc 18 Multimedia Technology 1/9/2020 12:00:00 18 asdsad@gmail.com asdasdasdasd asdd sd 19 19 987654321 1/17/2020 12:00:00 komal komal@gmail.com fdtyt Computing

2.8 Enrolled Student List

Figure 8:Enrolled Student List

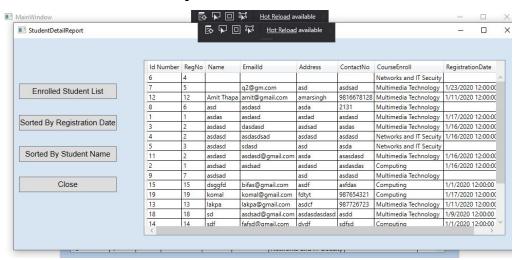
In this window which is the section for enrolled student list we can see the number of student that has been enrolled. It also contains all the basic details of the enrollment of student and also other details like registration date.

■ StudentDetailReport Hot Reload available X ld Number RegNo Name RegistrationDate dsggfd bifas@gmail.com asdf 1/1/2020 12:00:00 Computing Amit Thapa amit@gmail.com 9816678128 Multimedia Technology 1/11/2020 12:00:00 amarsingh Enrolled Student List 13 lakpa lakpa@gmail.com asdcf 987726723 Multimedia Technology 1/11/2020 12:00:00 asdsad asdsad asdasd asdasdas Computing 1/16/2020 12:00:00 asdasd dasdasd asdsad asdas Multimedia Technology 1/16/2020 12:00:00 Sorted By Registration Date asdasdsad asdasd Networks and IT Secuity 1/16/2020 12:00:00 asdasd asdasd 11 Multimedia Technology 1/16/2020 12:00:00 asdasd asdasd@gmail.com asda asasdasd Multimedia Technology asdasd asdad asdasd 1/17/2020 12:00:00 Sorted By Student Name 19 19 komal komal@gmail.com fdtyt 987654321 Computing 1/17/2020 12:00:00 q2@gm.com asdsad Multimedia Technology 1/23/2020 12:00:00 10 Networks and IT Secuity 1/23/2020 12:00:00 gfhtymgj yth gfhn Close 16 bisahl@gmail.com dfgvz 1/4/2020 12:00:00 ZVZCX dgfsdgfd Computing 17 iahsdf@gmail.com Computing 1/8/2020 12:00:00 Multimedia Technology 18 18 sd asdsad@gmail.com asdasdasdasd asdd 1/9/2020 12:00:00

2.9 Sort By Registration Date

Figure 9:Sorting by Registration Date

In this section we can see the total number of student that has been enrolled with the basic details provided as below.



2.10 Sort By Student Name

Figure 10:Sorting By Student Name

In this window the details are shown according to the sorting of student name.

3. SYSTEM ARCHITECTURE

3.1 Architecture Diagram

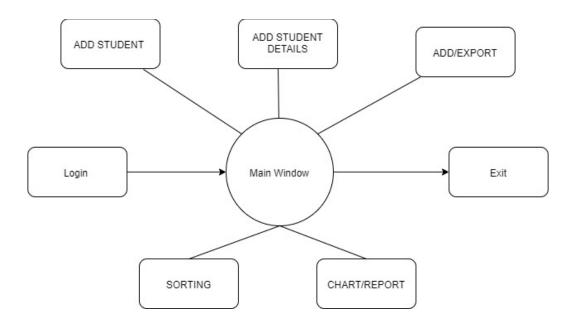


Figure 11: Architecture Diagram

3.2 Class Diagram

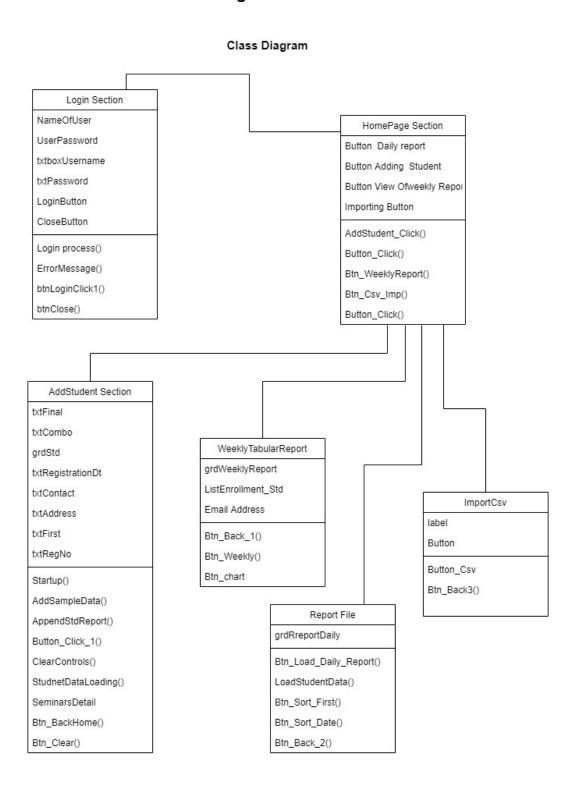


Figure 12: Class Diagram

3.3 Flowchart for Student Enrollment

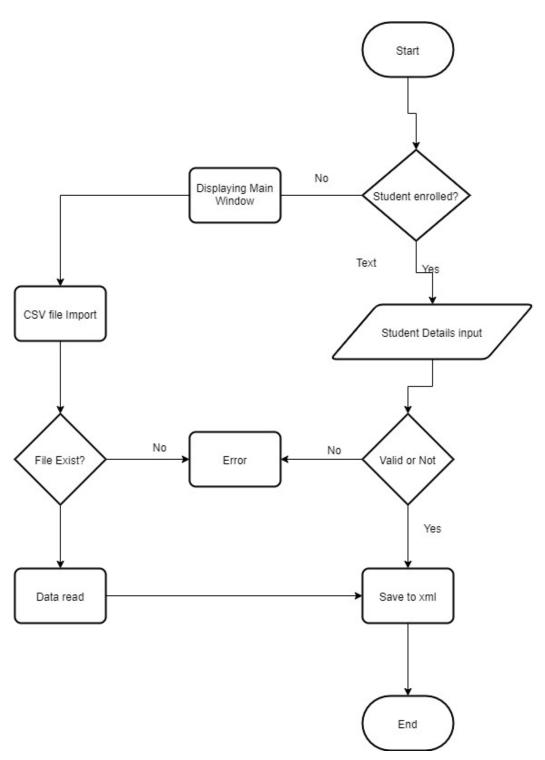


Figure 13: Flowchart

4. SORTING ALGORITHM

Bubble Sort algorithm is what I have used in this system. This an easy set of rules that is used to type a given set of n factors supplied in shape of an array with n quantity of elements. Bubble Sort compares all the detail one through one and kind them primarily based on their values.

If the given array has to be taken care of in ascending order, then bubble type will start by evaluating the first detail of the array with the second one element, if the first element is more than the second element, it will swap each the factors, and then move on to compare the second and the third element, and so on. If we have overall n factors, then we need to copy this process for n-1 times. It is known as bubble type, due to the fact with every entire iteration the biggest detail within the given array, bubbles up toward the last place or the very best index, just like a water bubble rises up to the water surface.

Sorting takes area by way of stepping through all the factors one-via-one and comparing it with the adjoining detail and swapping them if required(www.studytonight.com/, n.d.).

5. REFLECTION

The developed system referred as Student Information System is designed in Visual studio with the help of C#. The main idea behind the system is to create an environment here the data of the student can be stored successfully and shown in the form of report whenever it is necessary. This data can be stored in any sort of numbers and will be shown to the user in the form of chart which makes clear about the functionalities and the pattern of display. For example if a user wants to get the data in the form of sorting like sorting by name then he/ she can choose that way for data to be displayed. Similarly, the system is also designed to produce a chart which can make the user clear about the total percentage in more vivid way. The system will also be able to display the registration date which make user clear about the date of registration and also the user will be able to sort the data in any form of required result. This system will be able to display the any sort of error whichcan be like not entering the certain field or putting different kind of string in the able. This will help to prevent any kind of error that can take place in the future with wrong entry of data. So overall this system is a complete package to run and operate the student information system.

6. CONCLUSION

In a nutshell, this project taught us to successfully build the system that can input the different data from the user and display it accordingly in the desktop form. This system will be great beneficial in the future market as it can handle a lot of data and input with much ease. After the completion of this project now an individual can have a confident to handle any sort of similar system development that is given to him/her. To complete the project we had to visit different websites to learn more about desktop app and also C#. Through this experience we learnt more about data handling and different steps to import and sorting data in visual studio. So in conclusion this project helped me as an individual to prepare the similar system in the future in much better way.

7. BIBLIOGRAPHY

www.studytonight.com/, n.d. *StudyTonight*. [Online]
Available at: https://www.studytonight.com/data-structures/bubble-sort [Accessed 1 Jan 2020].