



Application Development Coursework 1

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Table of Contents

1. Introduction	4
1.1 Current Scenario	4
1.2 Proposed System	4
2. User Manual	5
3. System Architecture	12
Architecture Diagram	12
Class Diagram	12
Flowchart for Reports	13
4. Reflection	14
5. Conclusion	14

List of Figure

Figure 1: Add New Student	5
Figure 2: Student Added Successfully	6
Figure 3: Generate Report.....	7
Figure 4: Sort By Date	8
Figure 5: Data Imported Successfully	9
Figure 6: Weekly Report.....	10
Figure 7: Course Enrolment Chart.....	11
Figure 8: Architecture Diagram.....	12
Figure 9: Class Diagram.....	12
Figure 10: Flowchart Diagram	13

1. Introduction

The designed system is Student Information System as given by the question for application development coursework. The functions and features in this information system are developed properly. This system consist features like adding student's details, generate and display reports, display weekly tabular report, display chart and save and retrieve the student enroll status. In addition to that, listing the students detail like id, name, program enroll and registration date: one sorted by student first name and the other sorted by registration date. There is the feature to view daily and weekly table and chart.

1.1 Current Scenario

There are various educational institutions that keep the record and details of their students in paper based system. This system is a traditional way of keeping data but there are many risks of keeping data in such files. Some of the institutions have modern ways of data keeping with digitalized system but are lacking the features needed for them.

1.2 Proposed System

The proposed system is digitalized system which is especially designed to overcome the problems faced by many educational institutions in current scenario. This system has login system to ensure the security of the users. User-interface has made it easy to enter the data and display the data.

2. User Manual

There are screenshots below which will help a user how to operate the system easily.

As the user operates the system the initial screen will appear which will be the login screen. The username and password of the system is “admin”. Only a valid username and password can provide access to the system.

Add New Student

StudentID

StudentName

StudentAddress

StudentNumber

CourseEnroll

Registration Date
 15

Add Student

Figure 1: Add New Student

MainWindow Hot Reload available <

Add Student Generate Report Weekly Report Course Enrollment

Add New Student

StudentID
15

StudentName
Sangam Bishowkarma

StudentAddress
Parshyang-5, Pokhara

StudentNumber
9826114268

CourseEnroll
Computing

Registration Date
1/7/2020 15

Data saved successfully!
OK

Add Student

Figure 2: Student Added Successfully

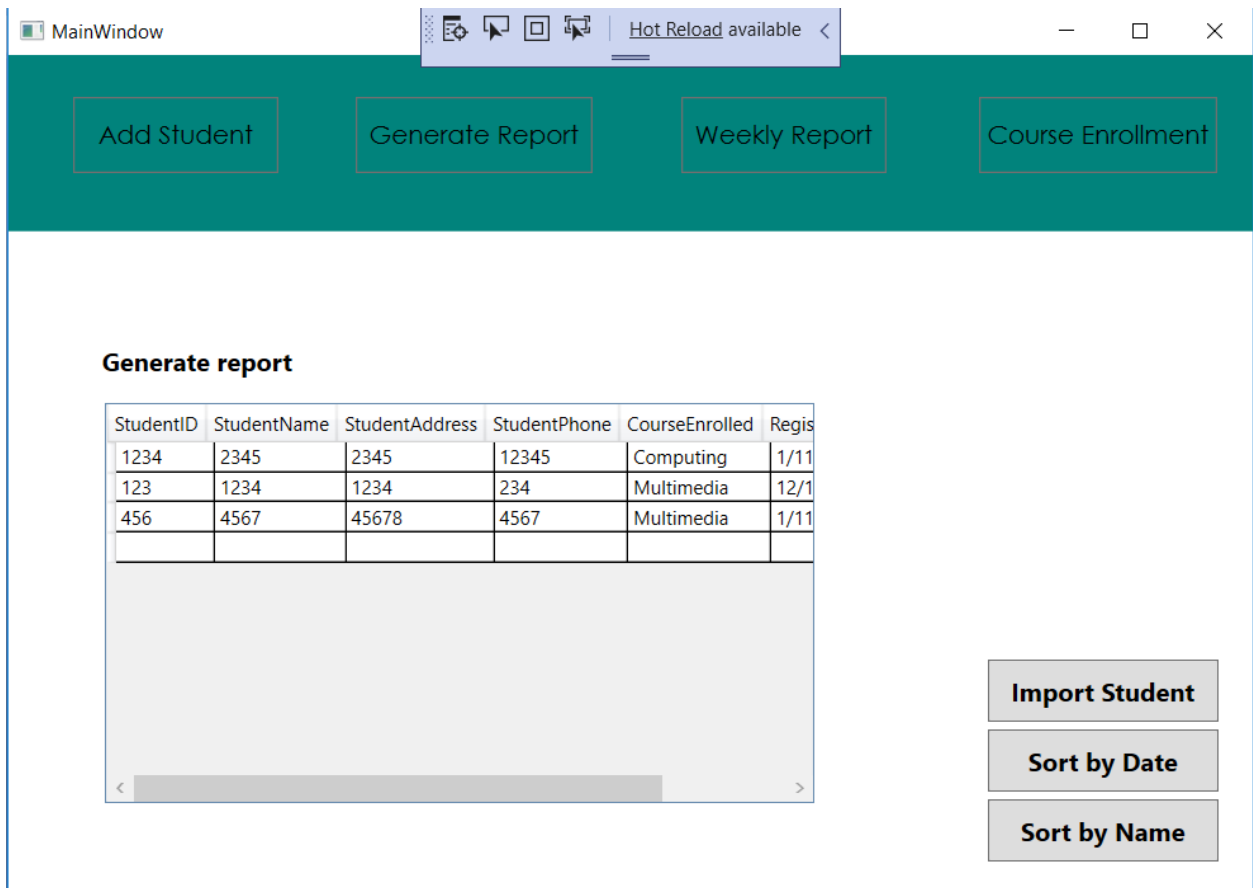


Figure 3: Generate Report

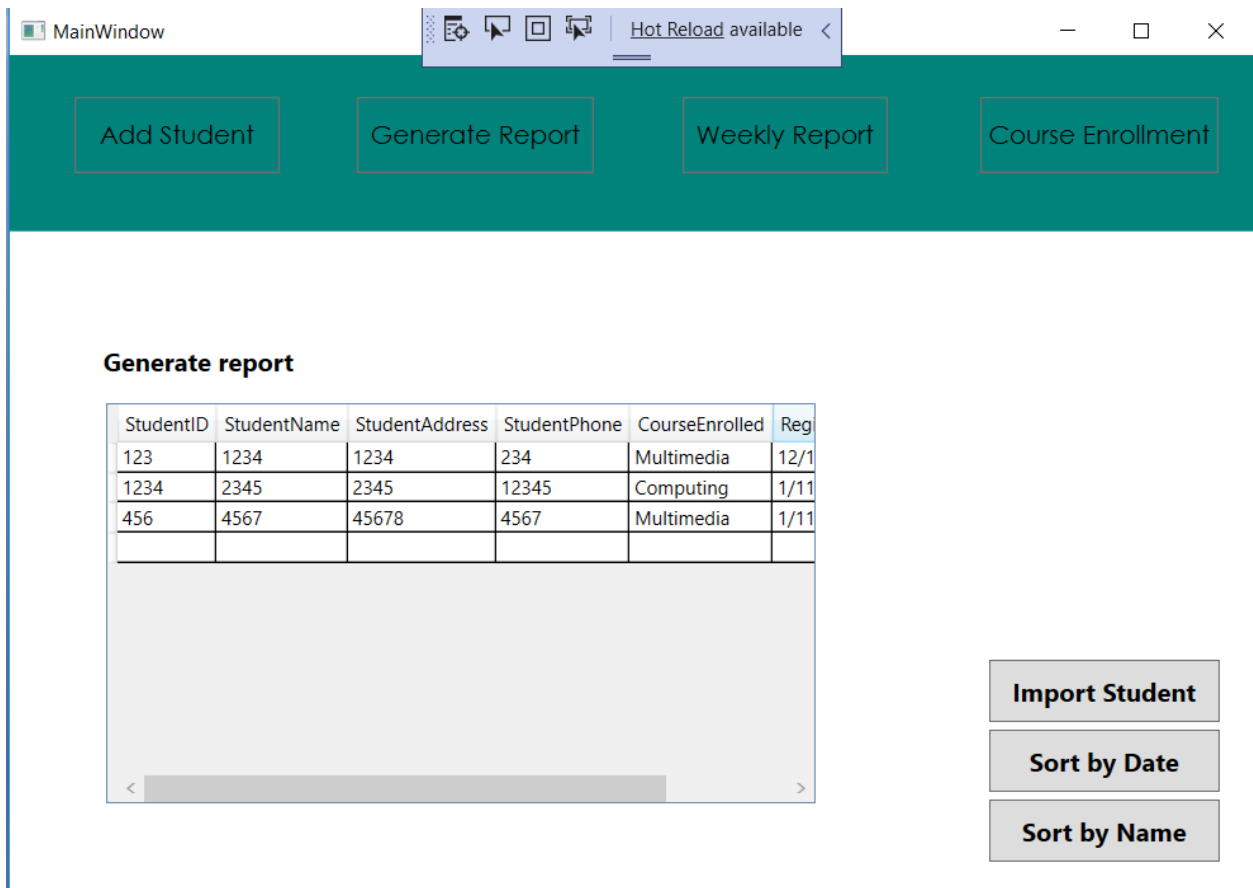


Figure 4: Sort By Date

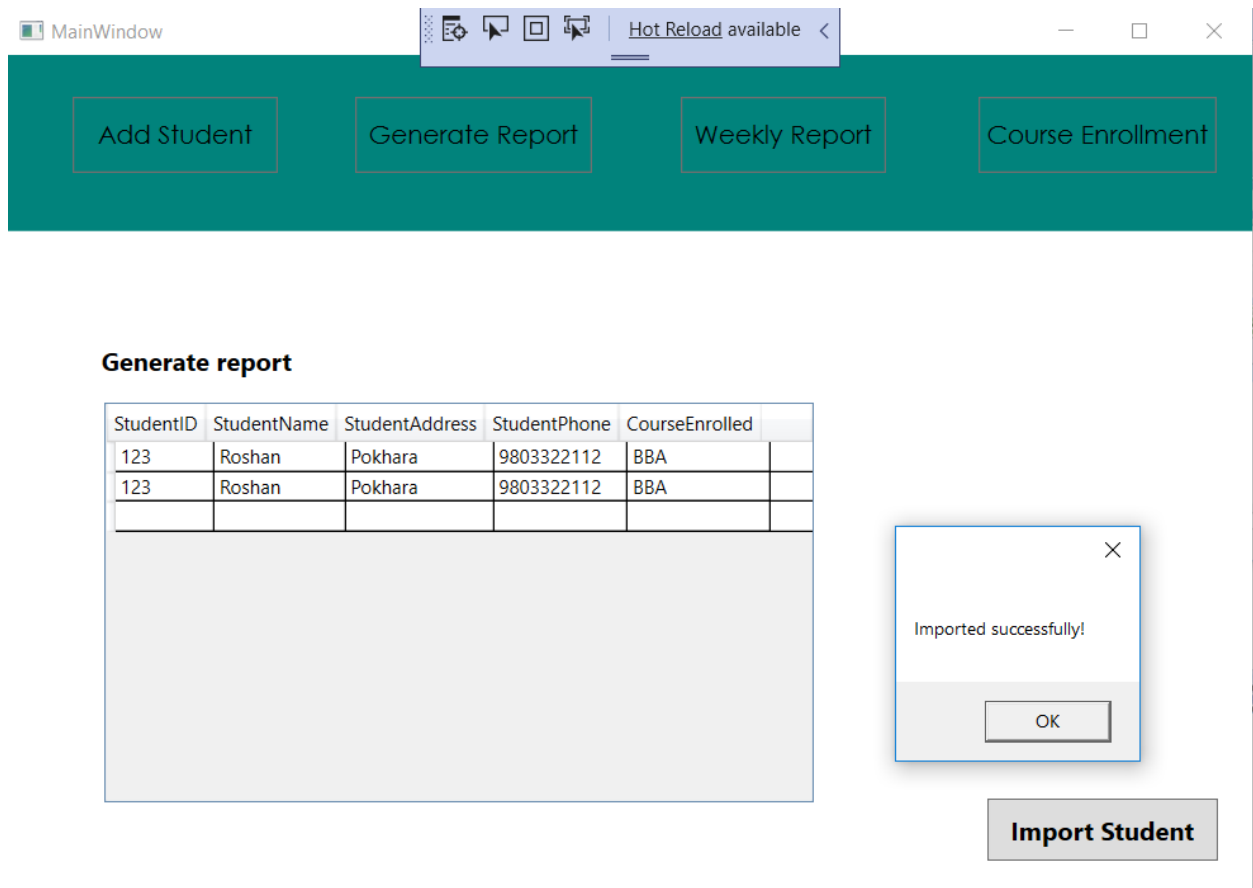


Figure 5: Data Imported Successfully

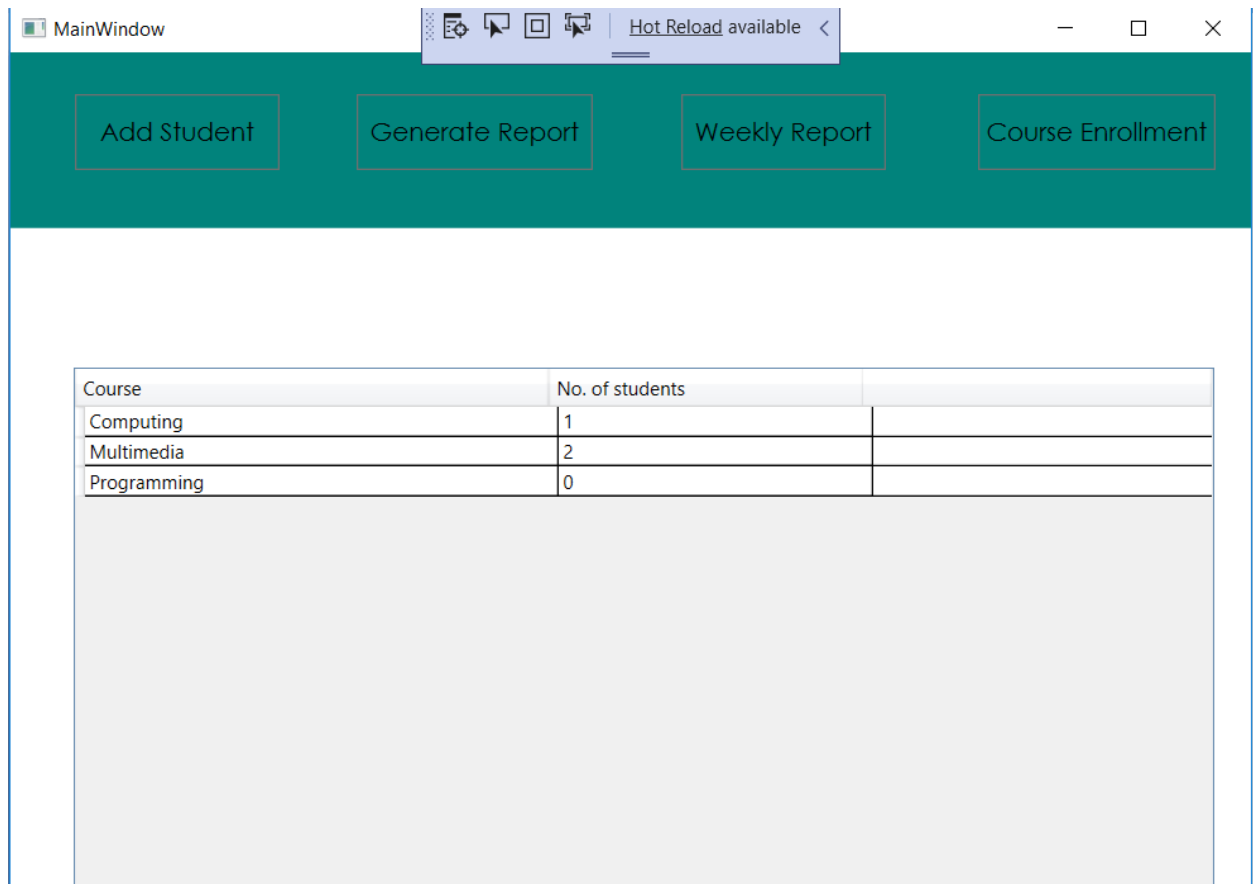


Figure 6: Weekly Report

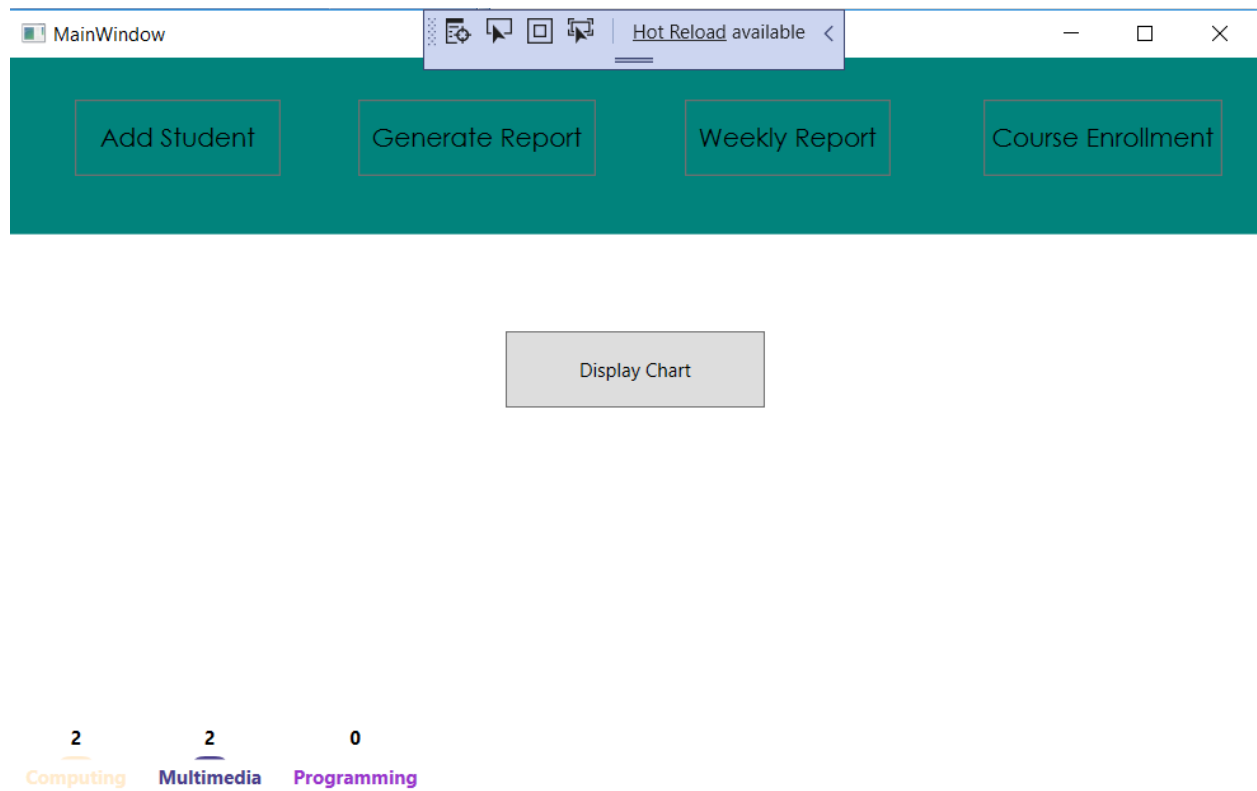


Figure 7: Course Enrolment Chart

3. System Architecture

Architecture Diagram

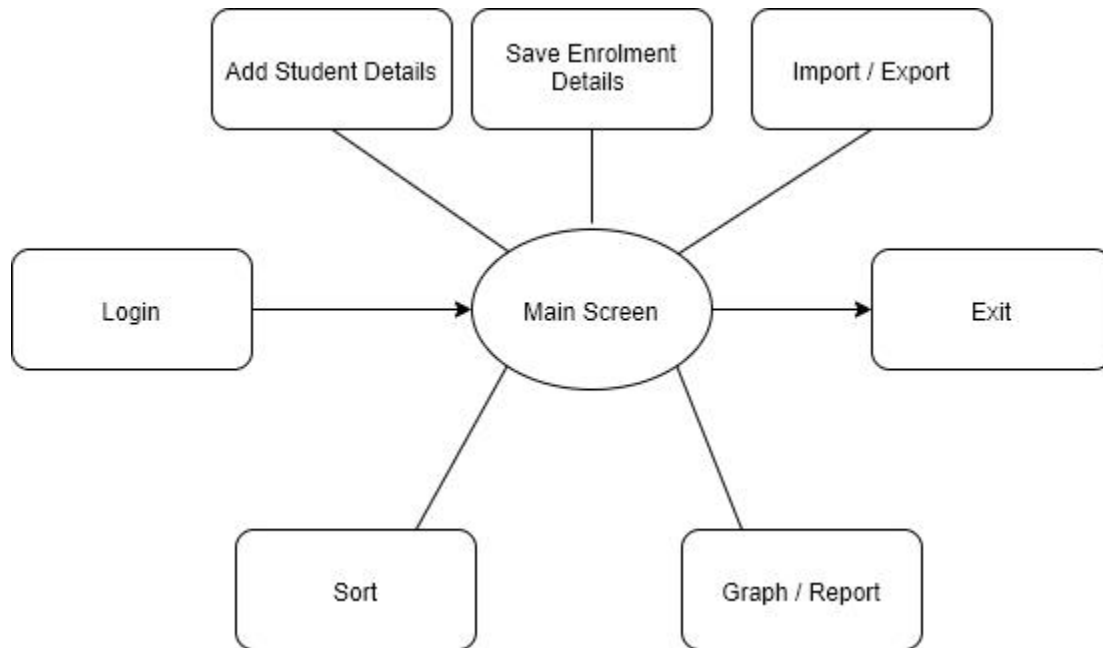


Figure 8: Architecture Diagram

Class Diagram

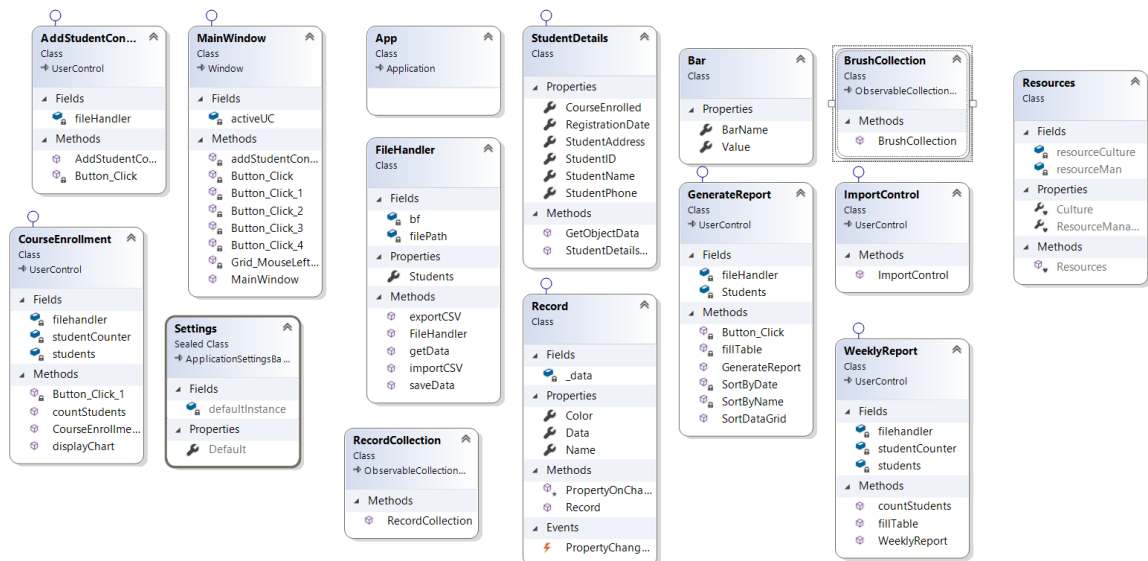


Figure 9: Class Diagram

Flowchart for Reports

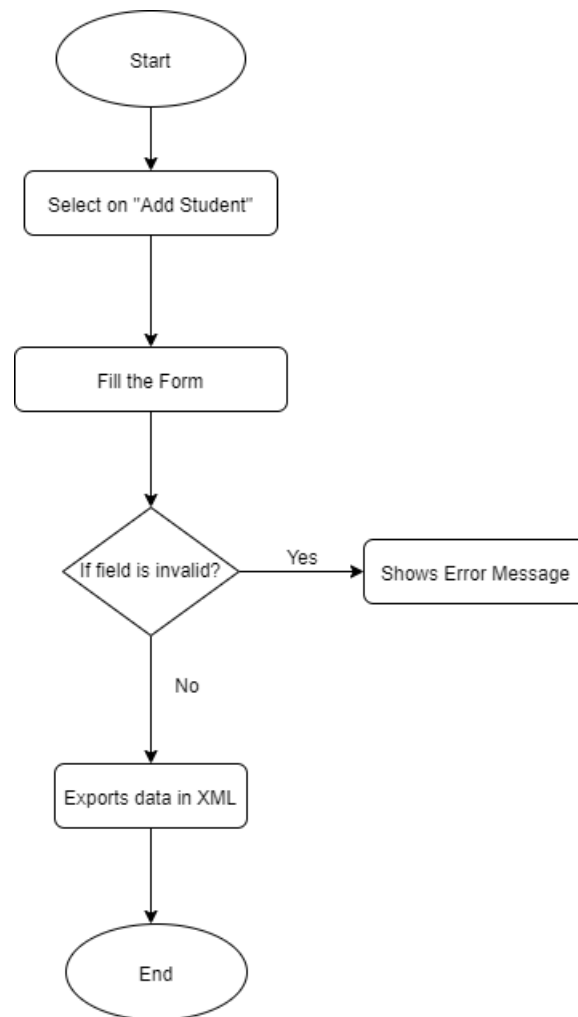


Figure 10: Flowchart Diagram

4. Reflection

The developed system is student Information System. This system is developed using Visual Studio 2019 with the C# programming language. The GUI designed is highly user interface and user with basic system administration can operate the system.

The application is to keep track of the student's details, programs enroll and registration date. The application allows the user to input the student personal detail including registration date so that a system can generate a weekly enrolment report of the student. This system includes details like: Name, address, contact no, email, program enroll and registration date that can be added manually by the user. In addition to that, a user can check out the daily and weekly chart along with the list.

I was not familiar with the visual studio so it was really difficult task for me to this coursework. This task was challenging for me but with the help and support of our sir Mr. Ishwor Sapkota I can more and more knowledge about visual studio. He helped me a lot in completing this project. I came to get more working and experience with the language. I had a great experience with the Application Development of the Student Information System.

5. Conclusion

The coursework for the module CS6004NA Application Development was to design and implement Student Information System in C# - desktop application for a company. It required a long time to build up the task in Visual Studio Enterprise 2019 utilizing C# programming.

This coursework was new task for me to complete in couple of weeks. As visual studio was new to me I found it really difficult to solve this task. It took several days for me to search and learn various tutorials regarding visual studio. I took help of YouTube and Google for any problems I face while doing this coursework.

I would like to thank my friends and my module leader Mr. Ishwor Sapkota for guiding me throughout the project.