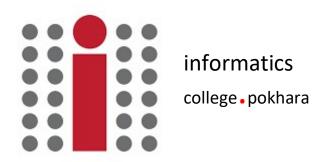
Marking Scheme

Informatics College Pokhara



Application Development CS6004NI Course Work 1

Submitted By: Aseem Adhikari Submitted To: Ishwor Sapkota

London Met ID: Enter ID Here Module Leader

Component Grade and Comments A. Implementation of Application				
				User Interface and proper controls used for designing
Manual data entry or import from csv	appropriate use of data types but missing some properties required or missing CRUD operation			
Data Validation	missing most of the 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	Sorting is implemented for not function properly			
B. Documentation				
User Manual for running the application	User Manual is average. Includes description for all interfaces			

Marking Scheme Application architecture & description of the average work with very limited explanation of the classes ad methods sued classes and methods used Flow chart, algoriathms and data sctructures missing some explanation and diagram for flow used chart and algorithms Average work with un clear learnings, experience or Reflective essay findings. C. Programming Style Clarity of code, Popper Naming convention & very poorly written code and no comments at all comments **System Usability** very poorly developed application Overall Grade: D+D+ **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

Informatics College Pokhara



Application Development CS6004NP Coursework 1

Submitted By:

Student Name: Aseem Adhikari

London Met ID: 17030703 Group: L3C2

Date: 10th-Jan-2019

Submitted To:

Mr. Ishwor Sapkota
Application Development

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 is released in the week 8 and it is supposed to be submitted in the week 12.

Table of Contents

1.	Int	troduction	1
1	1.1	Current Scenario	1
1	1.2	Proposed System	1
2.	Us	ser Manual	2
3.	Jo	ournal Articles	10
4.	Sy	stem Architecture	12
(Class	s Diagram	13
F	low	chart for Reports	14
	Da	aily Report	14
	We	eekly Report	16
A	Algoi	rithms of Reports	16
	Da	aily Report	16
5.	Со	onclusion	16
6.	Bik	bliography	17
Ар	pend	dix	18

Table of Figure

Figure 1: Main Page	2
Figure 2: Add Student Details	3
Figure 3: Details Added	4
Figure 4: Retrieve Data	
Figure 5: Sort by Date	
Figure 6: Sort By Name	
Figure 7: Weekly Report	
Figure 8: Chart	
Figure 9: Architecture Diagram	
Figure 10: Class Diagram	
Figure 11: FLowchart	

1. Introduction

The task given to us was to design and implement Student Information System in C# - desktop application. System designation and implementation is done by using Visual Studio. In this application user are allowed to input student details. After entering all the details of student, system will be able to generate a weekly enrolment report. This application is developed to keep track of student's detail, program enrol and registration date. Also, user are able to view the result sorted by date and their name. Furthermore, there is a features to view daily and weekly table and chart. Other available features are well explained in other sections of the report.

1.1 Current Scenario

Many of the student details in school and colleges are recorded in a file which is Paper-Based and are not related to any application system which makes their work even harder. But some of the top schools and colleges are making their way to the digital system where they can put student details and can track their result but are not satisfied with the things they can do under an application.

1.2 Proposed System

The proposed system is an application system which can satisfy the customer needs. The application helps to enter student details and can track their result.

2. User Manual

The below screenshot shows the work of an application where user can add student details sort them by their name and date and also can track students.

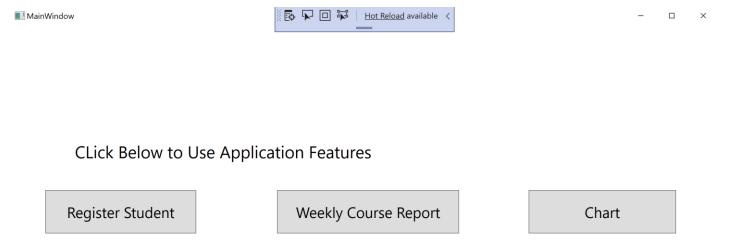


Figure 1: Main Page

As the user opens the application user will have access to three features as shown in the figure.

First feature lets the user to add data to view and sort the data

Second Feature lets the user to view weekly course report

Third Feature lets the user to view the chart.

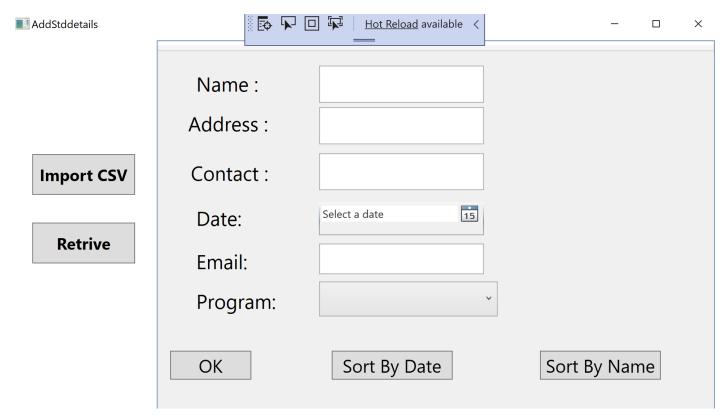


Figure 2: Add Student Details

This is the screen where user adds student details and can view the student by clicking retrieve. User can view student details by their date and Name. Also User can import details from CSV.

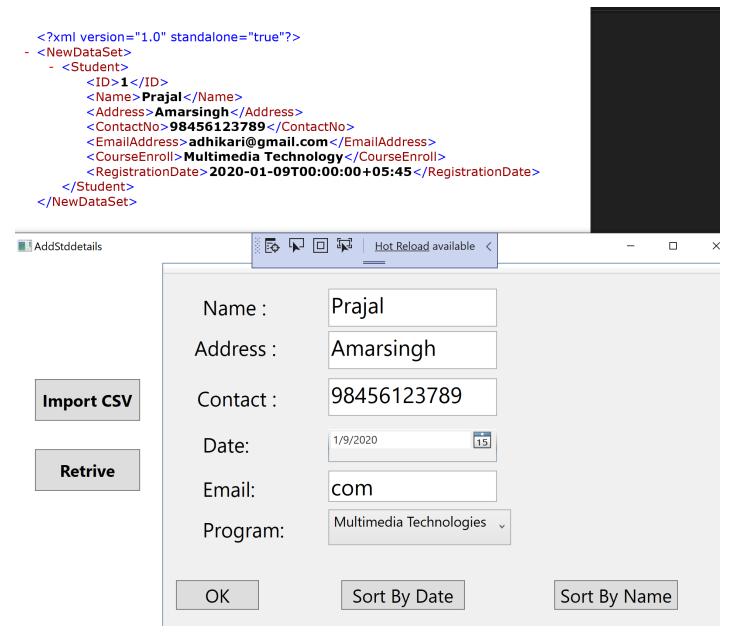


Figure 3: Details Added

After adding details and clicking ok details will be saved in the form of xml as shown above

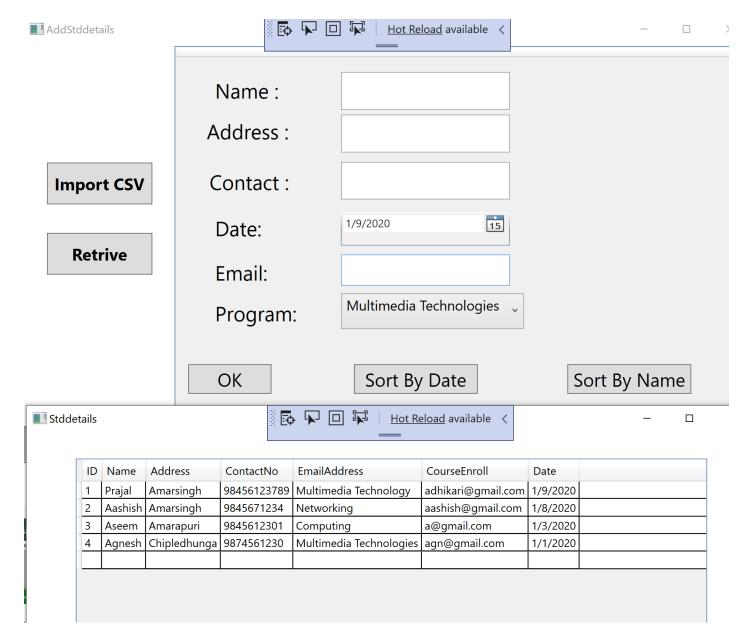


Figure 4: Retrieve Data

After user have successfully entered data retrieve button shows the number of student added with their details entered

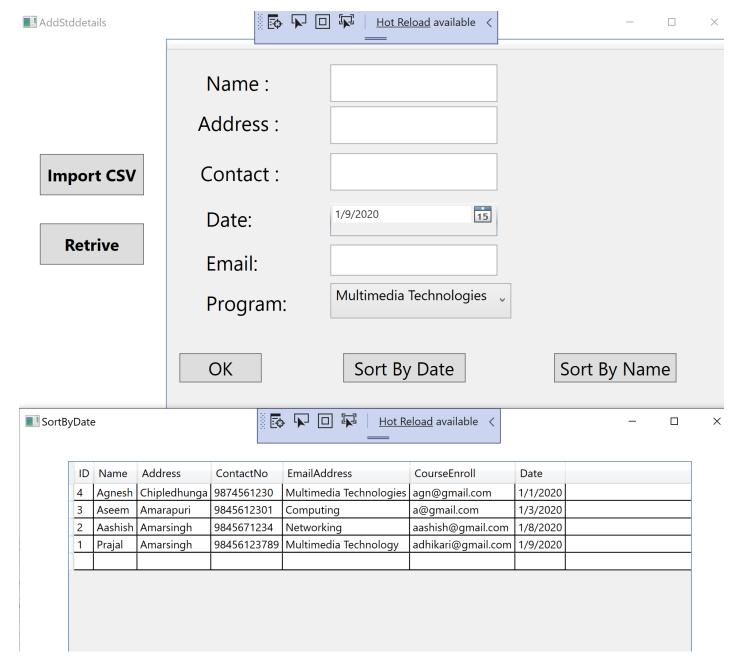


Figure 5: Sort by Date

Student Details can be viewed by their date. As given above after clicking "Sort By Date" button user are able to view student details by their date in new window.

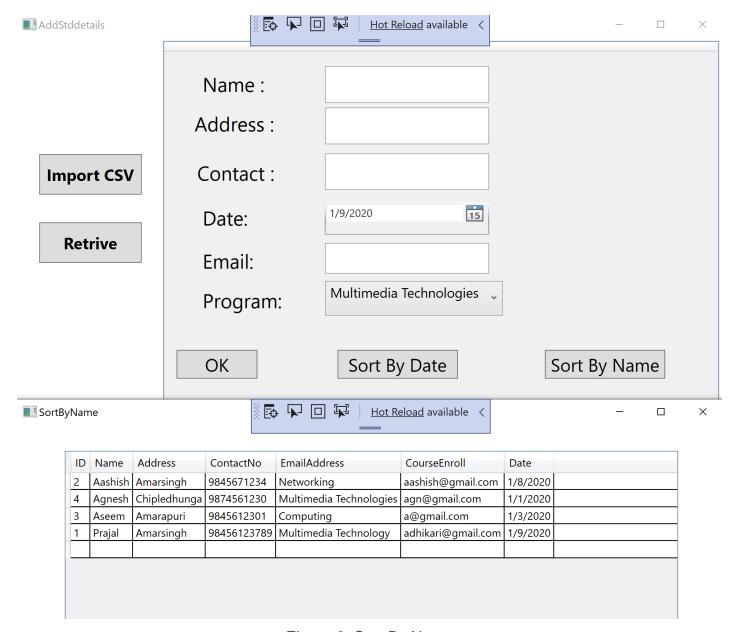


Figure 6: Sort By Name

User can also view student details by their name as given above.

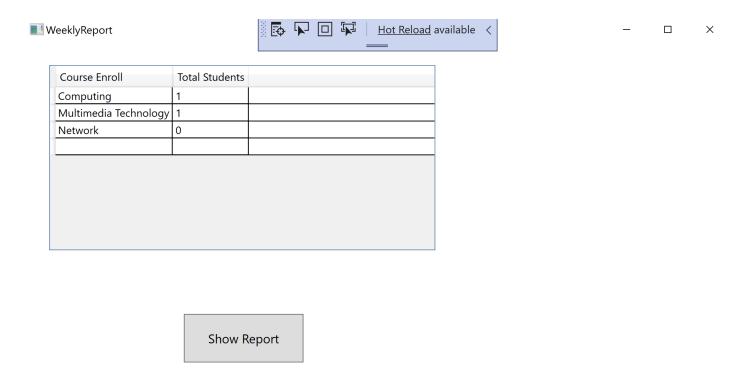


Figure 7: Weekly Report

Main Window Second Feature is to show weekly report of the courses as shown above

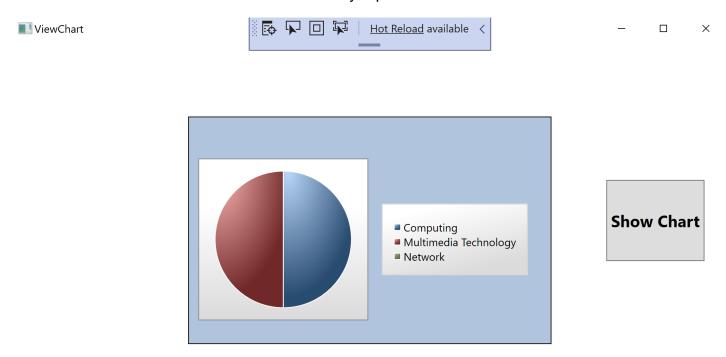


Figure 8: Chart

And the last feature of Main Window shows the chart which helps to keep the track of students.

3. Journal Articles

I. In the knowledge economy, universities and colleges play a pivotal role in knowledge creation, innovation, and dissemination, and in learning. Globalization in higher education means that universities are opening up campuses abroad, or offering distance-learning courses to students in other regions or countries, and such ventures are invariably dependent on the internet to provide both resources and administrative support for learning. Nations differ in their policies towards the "massification" of higher education: getting Wooldridge (2005) contrasts the approaches taken by the USA and Europe, noting how limited funding (and solely state funding) in some European universities in the league tables. Resources, and particularly electronic resources and services, matter, but our understanding of their impact is only now emerging (Jennifer Rowley, 2007).

II. There are several definitions for social media. Cambridge dictionary defines social media as "forms of media that allow people to communicate and share information using the internet or mobile phones." A we know social media is a computer-based technology that facilitates to share the ideas, information and the making of virtual networks and communities (Balalle).

III.We live in a digital era that presents challenges for education systems but also offers new opportunities for teaching, learning and pedagogy (Battro and Fischer, 2012). The digital era is a term that is ever more associated with digital technologies such as fast computers, multimedia environments, and devices that can process and present information in real time and at high speed. Digital technology means either: (a) digital information stored on a computer and other electronic device; or (b) digital devices such as a smartphone, laptop, cameras, etc. (Eliana Gall ardo-Echen ique).

IV. The emergence of smart device technologies and mobile applications is offering educators new platforms to engage students with class material and facilitate classroom discussions. The continues surge by

students to adopt smart devices as an integral part of their educational experience is also forcing educators to adapt their teaching styles in utilizing these new technologies (McGovern, 2018).

4. System Architecture Architecture Diagram

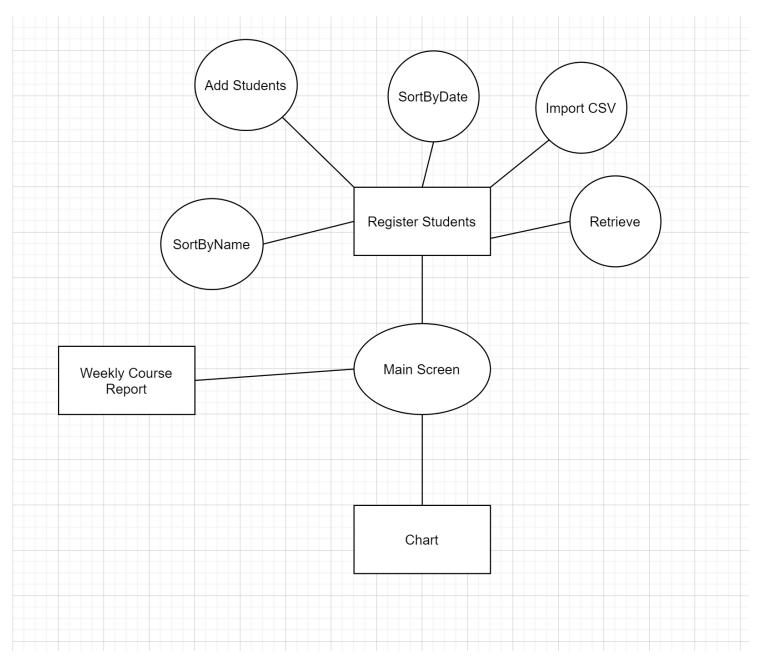


Figure 9: Architecture Diagram

Class Diagram

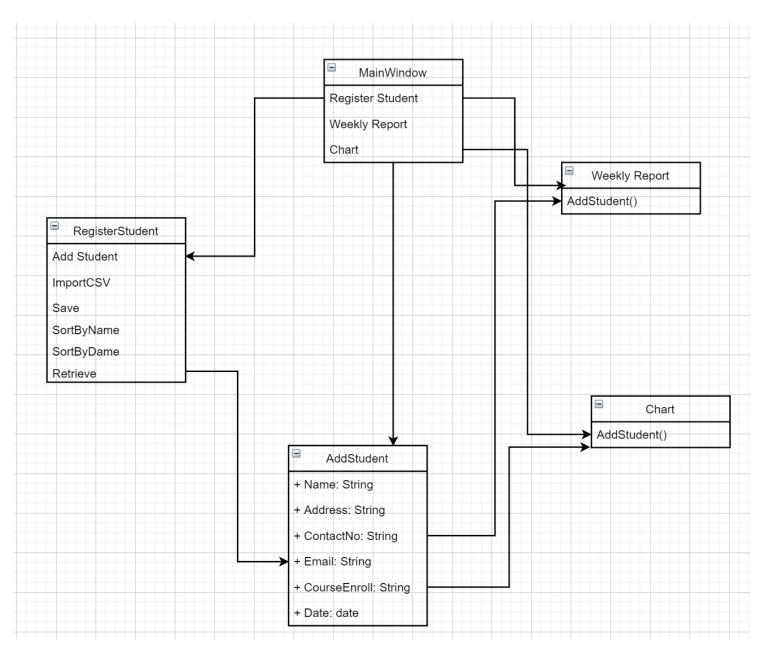


Figure 10: Class Diagram

Flowchart for Reports

Daily Report

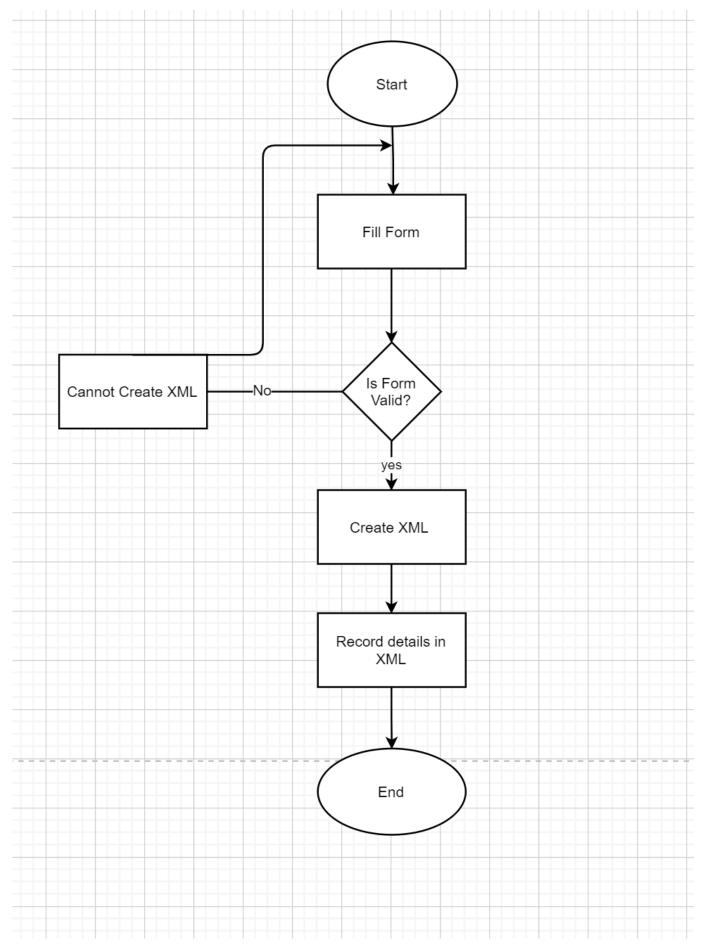


Figure 11: FLowchart

Weekly Report

Algorithms of Reports

Daily Report

Steps:

- 1. Start
- 2. Enter Student Details.
- 3. If Student details are field
- 4. Create XML or Cannot Create XML
- 5. Record details in XML
- 6. If data found, retrieve the data
- 7. Sort by name and Date
- 8. Display the data in the Bar chart and Weekly Report Course
- 9. Stop

5. Conclusion

The initial coursework for the module CS6004NA Application Development was to design and implement Student Information System. It was not an easy task because we had few basic concepts of using Visual Studio and also C#. The Framework has three features which can add student details, can show in the chart and also shows the weekly course report. Also application can view the added student details and also can sort the details by date and their name. Many research were done through internet which help a lot doing the task.

6. Bibliography

- Balalle, D. H. (n.d.). International Journal of Advance Research, Ideas And Innovations In Technology. *The impact of social media on the student academic achievement*, 427.
- Eliana Gall ardo-Echen ique, M. r.-M. (n.d.). Student Communication and Study Habits of First-year University Students in the Digital Era. *Canadian journal of Learning and Technology, 42(1)*.
- Jennifer Rowley, C. U. (2007). Understanding Student Information Behavior in Relation to Electronic Information Services.

 AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY.
- McGovern, C. L.-N. (2018). On the Use of MobileApps in Education: The Impact of Digital Magazines on Student Learning. Journal of Edicational Technology Systems.

Appendix

MainWindow.cs

```
using DataHandler;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Navigation;
using System.Windows.Shapes;
using System.Data;
namespace CourseWorkSample
{
    /// <summary>
    /// Interaction logic for MainWindow.xaml
    /// </summary>
    public partial class MainWindow: Window
        public MainWindow()
            InitializeComponent();
        private void nav1_Click(object sender, RoutedEventArgs e)
            AddStddetails addstddetails = new AddStddetails();
            addstddetails.Show();
        private void nav2_Click(object sender, RoutedEventArgs e)
            WeeklyReport wkly = new WeeklyReport();
            wkly.Show();
        private void nav4_Click(object sender, RoutedEventArgs e)
            ViewChart wkly = new ViewChart();
            wkly.Show();
        }
}
```

AddStddetails.cs

```
using DataHandler;
using Microsoft.Win32;
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.OleDb;
using System.Globalization;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace CourseWorkSample
{
    /// <summary>
    /// Interaction logic for AddStddetails.xaml
    /// </summary>
    public partial class AddStddetails : Window
        public AddStddetails()
        {
            InitializeComponent();
        }
        private void ImportCSV Click(object sender, RoutedEventArgs e)
            OpenFileDialog dialog = new OpenFileDialog();
            dialog.DefaultExt = ".csv";
            Nullable<bool> load = dialog.ShowDialog();
            if (load == true)
            {
                DataTable stdinfo = import_From_CSV(dialog.FileName, true);
                gridStudentDetails.ItemsSource = stdinfo.DefaultView;
            }
            else
            {
                MessageBox.Show("File not found");
        private void stddetails_Click(object sender, RoutedEventArgs e)
            Stddetails std = new Stddetails();
            std.Show();
        static DataTable import From CSV(string path, bool isFirstRowHeader)
            string header = isFirstRowHeader ? "Yes" : "No";
            string pathdirectory = System.IO.Path.GetDirectoryName(path);
            string filename = System.IO.Path.GetFileName(path);
```

```
string sql = @"SELECT * FROM [" + filename + "]";
            using (OleDbConnection connection = new OleDbConnection(
                      @"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" +
pathdirectory +
                       ";Extended Properties=\"Text;HDR=" + header + "\""))
            using (OleDbCommand command = new OleDbCommand(sql, connection))
            using (OleDbDataAdapter adapter = new OleDbDataAdapter(command))
                DataTable dataTable = new DataTable();
                dataTable.Locale = CultureInfo.CurrentCulture;
                adapter.Fill(dataTable);
                return dataTable;
            }
        }
        private void AddStudentDetails(DataSet dataset)
            var dt student = dataset.Tables["Student"].NewRow();
            dt_student["Name"] = txtName.Text;
            dt student["Address"] = txtAddress.Text;
            dt_student["ContactNo"] = txtContact.Text;
            dt_student["CourseEnroll"] = cbCourseEnroll.Text;
            dt_student["EmailAddress"] = txtemail.Text;
            dt_student["RegistrationDate"] =
RegistrationDate.SelectedDate.ToString();
            //MessageBox.Show("Date Added" +
dpRegistrationDate.SelectedDate.ToString());
            dataset.Tables["Student"].Rows.Add(dt student);
        private void AppendStudentDetails(DataSet dataset)
            if (File.Exists(@"D:\Year 3\Application
Development\cw1\StudentReport.xml"))
                dataset.Tables["StudentReport"].ReadXml(@"D:\Year 3\Application
Development\cw1\StudentReport.xml");
                var dt student = dataset.Tables["StudentReport"].NewRow();
                dt_student["Name"] = txtName.Text;
                dt_student["Address"] = txtAddress.Text;
                dt_student["ContactNo"] = txtContact.Text;
                dt_student["CourseEnroll"] = cbCourseEnroll.Text;
dt_student["EmailAddress"] = txtemail.Text;
                dt_student["RegistrationDate"] = RegistrationDate.SelectedDate;
                dataset.Tables["StudentReport"].Rows.Add(dt student);
                dataset.Tables["StudentReport"].WriteXml(@"D:\Year
3\Application Development\cw1\StudentReport.xml");
            }
            else
                dataset.Tables["StudentReport"].WriteXml(@"D:\Year
3\Application Development\cw1\StudentReport.xml");
                AppendStudentDetails(dataset);
            }
        }
        private void Show_Student_Details()
```

```
if (File.Exists(@"D:\Year 3\Application
Development\cw1\StudentReport.xml"))
                var dataset = new DataSet();
                dataset.ReadXml(@"D:\Year 3\Application
Development\cw1\StudentReport.xml");
            }
            else
                MessageBox.Show("Sorry, there's data. Please fill up the form
to view data.");
        }
        private void Save_Click(object sender, RoutedEventArgs e)
            var handler = new Handler();
            var dataset = handler.CreateDataSet();
            AddStudentDetails(dataset);
            AppendStudentDetails(dataset);
            dataset.Tables["Student"].WriteXml(@"D:\Year 3\Application
Development\cw1\" + txtName.Text + "Data.xml");
            //Res_no_write(txtResNo.Text);
            //txtResNo.Text = Res no read();
            MessageBox.Show("Sudent Details saved successfully!");
            txtName.Text = "";
txtAddress.Text = "";
            txtContact.Text = "";
            txtemail.Text = "";
            //cbCourseEnroll.SelectedIndex
            //dpRegistrationDate.SelectedDate
            Stddetails stddetails = new Stddetails();
            stddetails.Show();
        }
        private void SortDate_Click(object sender, RoutedEventArgs e)
            SortByDate std = new SortByDate();
            std.Show();
        }
        private void SortName Click(object sender, RoutedEventArgs e)
            SortByName std = new SortByName();
            std.Show();
        }
        private void Delete_Click(object sender, RoutedEventArgs e)
    }
}
```

SortByDate.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace CourseWorkSample
    /// <summary>
    /// Interaction logic for SortByDate.xaml
    /// </summary>
    public partial class SortByDate : Window
        DataTable buffer;
        public SortByDate()
            InitializeComponent();
            sortDate();
        }
        private void sortDate()
            string sampleXmlFile = @"D:\Year 3\Application
Development\cw1\StudentReport.xml";
            DataSet dataset = new DataSet();
            dataset.ReadXml(sampleXmlFile);
            buffer = new DataTable("dt");
            buffer.Columns.Add("ID", typeof(String));
            buffer.Columns.Add("Name", typeof(String));
            buffer.Columns.Add("Address", typeof(String));
            buffer.Columns.Add("ContactNo", typeof(String));
            buffer.Columns.Add("EmailAddress", typeof(String));
buffer.Columns.Add("CourseEnroll", typeof(String));
            buffer.Columns.Add("Date", typeof(String));
            for (int i = 0; i < dataset.Tables[0].Rows.Count; i++)</pre>
                 string s = dataset.Tables[0].Rows[i][6].ToString();
                DateTime dtime = DateTime.Parse(s);
                 buffer.Rows.Add(
                     dataset.Tables[0].Rows[i][0].ToString(),
                     dataset.Tables[0].Rows[i][1].ToString(),
                     dataset.Tables[0].Rows[i][2].ToString(),
                     dataset.Tables[0].Rows[i][3].ToString(),
                     dataset.Tables[0].Rows[i][4].ToString(),
                     dataset.Tables[0].Rows[i][5].ToString(),
                     dtime.ToShortDateString());
            }
```

```
DataView dataView = new DataView(buffer); // setting the itemsource
to table
             gridSortDate.ItemsSource = dataView;
         // setting the itemsource to table
         // code responsible sorting in ascending order, In Date ASE, DATE
should match your variable from handler class
         // Displaying data
         private void SortDate_Click(object sender, RoutedEventArgs e)
             DataView dataView = new DataView(buffer);
             dataView.Sort = "Date ASC";
             gridSortDate.ItemsSource = dataView;
         }
    }
}
SortByName.cs
using System;
using System.Collections.Generic;
using System.Data;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace CourseWorkSample
{
    /// <summary>
    /// Interaction logic for SortByName.xaml
    /// </summary>
    public partial class SortByName : Window
    {
         DataTable buffer;
         public SortByName()
         {
             InitializeComponent();
             sortName();
         private void sortName()
             string sampleXmlFile = @"D:\Year 3\Application
Development\cw1\StudentReport.xml";
             DataSet dataset = new DataSet();
             dataset.ReadXml(sampleXmlFile);
             buffer = new DataTable("dt");
             buffer.Columns.Add("ID", typeof(String));
buffer.Columns.Add("Name", typeof(String));
             buffer.Columns.Add("Address", typeof(String));
buffer.Columns.Add("ContactNo", typeof(String));
             buffer.Columns.Add("EmailAddress", typeof(String));
buffer.Columns.Add("CourseEnroll", typeof(String));
             buffer.Columns.Add("Date", typeof(String));
```

```
for (int i = 0; i < dataset.Tables[0].Rows.Count; i++)</pre>
                string s = dataset.Tables[0].Rows[i][6].ToString();
                DateTime dtime = DateTime.Parse(s);
                buffer.Rows.Add(
                    dataset.Tables[0].Rows[i][0].ToString(),
                    dataset.Tables[0].Rows[i][1].ToString(),
                    dataset.Tables[0].Rows[i][2].ToString(),
                    dataset.Tables[0].Rows[i][3].ToString(),
                    dataset.Tables[0].Rows[i][4].ToString(),
                    dataset.Tables[0].Rows[i][5].ToString(),
                    dtime.ToShortDateString());
            }
            DataView view = new DataView(buffer); // setting the itemsource to
table
            gridSortName.ItemsSource = view;
        }
        private void SortName_Click(object sender, RoutedEventArgs e)
            DataView view = new DataView(buffer); // setting the itemsource to
table
            view.Sort = "Name ASC";
            gridSortName.ItemsSource = view;
        }
    }
}
Stddetails.cs
using DataHandler;
using System;
using System.Collections.Generic;
using System.Data;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace CourseWorkSample
    /// <summary>
    /// Interaction logic for Stddetails.xaml
    /// </summary>
    public partial class Stddetails : Window
        public Stddetails()
            InitializeComponent();
        }
```

```
private void display_Report()
             string sampleXmlFile = @"D:\Year 3\Application
Development\cw1\StudentReport.xml";
            DataSet dataset = new DataSet();
             dataset.ReadXml(sampleXmlFile);
             DataTable buffer = new DataTable("dt");
             buffer.Columns.Add("ID", typeof(String));
             buffer.Columns.Add("Name", typeof(String));
             buffer.Columns.Add("Address", typeof(String));
             buffer.Columns.Add("ContactNo", typeof(String));
            buffer.Columns.Add("EmailAddress", typeof(String));
buffer.Columns.Add("CourseEnroll", typeof(String));
             buffer.Columns.Add("Date", typeof(String));
             for (int i = 0; i < dataset.Tables[0].Rows.Count; i++)</pre>
                 string s = dataset.Tables[0].Rows[i][6].ToString();
                 DateTime dtime = DateTime.Parse(s);
                 buffer.Rows.Add(
                     dataset.Tables[0].Rows[i][0].ToString(),
                     dataset.Tables[0].Rows[i][1].ToString(),
                     dataset.Tables[0].Rows[i][2].ToString(),
                     dataset.Tables[0].Rows[i][3].ToString(),
                     dataset.Tables[0].Rows[i][4].ToString(),
                     dataset.Tables[0].Rows[i][5].ToString(),
                     dtime.ToShortDateString());
             }
            DataView dataView = new DataView(buffer); // setting the itemsource
to table
             grdStudentDetails.ItemsSource = dataView; // viewing?
        }
        private void btnStudentDetails_Click(object sender, RoutedEventArgs e)
             display_Report();
    }
}
VisitorChart.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System;
using System.Collections.Generic;
using System.Data;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
```

```
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
using System.Windows.Controls.DataVisualization.Charting;
namespace CourseWorkSample
    /// <summary>
    /// Interaction logic for WeeklyReport.xaml
    /// </summary>
    public partial class ViewChart : Window
        public ViewChart()
            InitializeComponent();
        private void ShowChart_Click(object sender, RoutedEventArgs e)
            var dataset = new DataSet(); // declaring new data set
            dataset.ReadXml(@"D:\Year 3\Application
Development\cw1\StudentReport.xml"); // reading main report
            DataTable stdReport = dataset.Tables[0];
            int total Com = 0;
                                // assigning initial values of Course to
            int total Mul = 0;
            int total Net = 0;
            DataTable dt = new DataTable("tbl");
            dt.Columns.Add("Course Enroll", typeof(String)); // creating two
columns
            dt.Columns.Add("Total Students", typeof(int));
            for (int i = 0; i < stdReport.Rows.Count; i++)</pre>
            {
                String col = stdReport.Rows[i]["CourseEnroll"].ToString();
                if (col == "Computing")
                {
                    total_Com++; // incrementing values of each course based
on user input
                else if (col == "Multimedia Technology")
                    total Mul++;
                }
                else if (col == "Network")
                {
                    total Net++;
                }
            }
            dt.Rows.Add("Computing", total_Com);
                                                          // final assign
            dt.Rows.Add("Multimedia Technology", total_Mul);
            dt.Rows.Add("Network", total_Net);
            ((PieSeries)PieChart).ItemsSource =
            new KeyValuePair<string, int>[]{
```

```
new KeyValuePair<string,int>("Computing", total_Com),
new KeyValuePair<string,int>("Multimedia Technology", total_Mul),
        new KeyValuePair<string,int>("Network", total_Net) };
        }
    }
}
VisitorEntry.cs
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data; using
System.Drawing; using
System.Linq; using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace
MuseumMgntSystem
      public partial class VisitorEntry :
Form
        public VisitorEntry()
            InitializeComponent();
        public Visitor Visitor
get
                 var visitor = new Visitor();
visitor.Date = datePicker.Value.Date;
                                                         visitor.Day =
datePicker.Value.DayOfWeek.ToString();
visitor.CardName = cardNametextBox.Text;
visitor.InTime = inTimePicker.Value.TimeOfDay;
visitor.OutTime = outTimePicker.Value.TimeOfDay;
visitor.TotalMinutes = visitor.CalculateTotalMinutes();
if (datePicker.Value.DayOfWeek == DayOfWeek.Saturday | |
datePicker.Value.DayOfWeek == DayOfWeek.Sunday)
                     datePicker.Enabled = false;
                     MessageBox.Show("The entered date is either Saturday or
Sunday so the date is automatically updated to Monday of the same week.",
"Notice", MessageBoxButtons.OK, MessageBoxIcon.Warning);
visitor.Date=
datePicker.Value.Date.AddDays(((int)datePicker.Value.DayOfWeek * -1) + 1);
visitor.Day= visitor.Date.DayOfWeek.ToString();
                 return visitor;
            }
        private void VisitorEntry Load(object sender, EventArgs e)
                       inTimePicker.MinDate =
DateTime.Parse("10:00:00");
                                          inTimePicker.MaxDate =
DateTime.Parse("16:45:00");
```

```
outTimePicker.MinDate =
DateTime.Parse("10:01:00");
DateTime.Parse("16:59:00");
                                         outTimePicker.MaxDate =
            if (DateTime.Now.DayOfWeek == DayOfWeek.Saturday | |
DateTime.Now.DayOfWeek == DayOfWeek.Sunday)
                MessageBox.Show("The ABC Museum remains closed on weekends.",
"Museum Closed", MessageBoxButtons.OK, MessageBoxIcon.Warning);
this.Close();
            if (DateTime.Now <= DateTime.Parse("9:59:00") || DateTime.Now >=
DateTime.Parse("17:00:00"))
                MessageBox.Show("The ABC Museum opens from 10 A.M to 5 P.M",
"Museum Closed", MessageBoxButtons.OK, MessageBoxIcon.Warning);
this.Close();
        private void cardNametextBox KeyPress 1(object sender,
KeyPressEventArgs e)
            e.Handled = !(char.IsLetter(e.KeyChar) || e.KeyChar ==
(char)Keys.Back);
    } }
WeeklyReport.cs
using System;
using System.Collections.Generic;
using System.Data;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Shapes;
namespace CourseWorkSample
    /// <summary>
    /// Interaction logic for WeeklyReport.xaml
    /// </summary>
    public partial class WeeklyReport : Window
        public WeeklyReport()
            InitializeComponent();
```

```
private void WeeklyReport_Click(object sender, RoutedEventArgs e)
            var dataset = new DataSet(); // declaring new data set
            dataset.ReadXml(@"D:\Year 3\Application
Development\cw1\StudentReport.xml"); // reading main report
            DataTable stdReport = dataset.Tables[0];
            int total_Com = 0;
                               // assigning initial values of Course to
            int total_Mul = 0;
            int total_Net = 0;
            DataTable dt = new DataTable("tbl");
            dt.Columns.Add("Course Enroll", typeof(String)); // creating two
columns
            dt.Columns.Add("Total Students", typeof(int));
            for (int i = 0; i < stdReport.Rows.Count; i++)</pre>
                String col = stdReport.Rows[i]["CourseEnroll"].ToString();
                if (col == "Computing")
                    total_Com++; // incrementing values of each course based
on user input
                }
                else if (col == "Multimedia Technology")
                    total Mul++;
                }
                else if (col == "Network")
                    total_Net++;
                }
            }
            dt.Rows.Add("Computing", total_Com);
                                                           // final assign
            dt.Rows.Add("Multimedia Technology", total_Mul);
            dt.Rows.Add("Network", total_Net);
            gridWeeklyReport.DataContext = dt.DefaultView; // is the name of
data grid
        }
}
```