DIPLOMA SOFT SKILL MAINTENANCE

[ONLINE SYSTEM]

A Mini Project Report Submitted for

The partial fulfilment for the award of degree

BACHELOR OF COMPUTER APPLICATIONS

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ST. JOSEPH'S COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

CUDDALORE-607 001

APRIL -2019

CERTIFICATE

This is to certify that the Mini Project entitled

DIPLAMO SOFT SKILL MAINTENANCE

[ONLINE-MAINTENANCE SYSTEM]

Being Submitted to St. Joseph's college of Arts & Science (Autonomous)

(Affiliated to Thiruvalluvar University – Vellore)

S. SELVA BHARATHI

(A16CAEB28)

For the partial fulfilment for the award of degree of

BACHELOR OF COMPUTER APPLICATIONS

Is Bonafide record of work carried out by her,

Under my guidance and supervision

Internal Guide **Head of the Department**

Submitted for the viva-voice examination held on……..

Examiners:

1. _____
2. _____

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ABSTRACT

Online soft skill course maintenance that permits the admin to maintain weekly attendance for every classes of soft skill and maintain fees, details students studying the course . And it also maintain the weekly report. Based on the weekly report we can inform the students how many days they are attended the classes. Its also helpful to know the course students details yearly.

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Chapter-2

SYSTEM ANALYSIS

1.1 EXISTING SYSTEM

The system study phase study the problem, identifies alternate solutions evaluate those solutions and finally recommends the best solutions. The system study gives the structure and function of the system. The system study can be performed only on the existing system. The system study gives an ideas of then user requirements. A detailed system study is an essential for developing an efficient system.

1.2 PROPOSED SYSTEM

The proposed system is designed to eliminate the drawbacks of the existing system. It is design to eliminate the drawbacks of the present in order to provide a permanent solution to the problem. The primary goal of the new system is to reduce the time and cost cutting.

1.3 FEASIBILITY STUDY

The purpose of feasibility study is not to solve the problem, but to determine whether the problem is worth solving. The feasibility study concentrates on the following areas.

- **Economic Feasibility**
- **Operational Feasibility**
- **Technical Feasibility**

1.3.1 ECONOMIC & FINANCIAL FEASIBILITY

The computerized system will help in atomate the selection leading the profits and detail of the organization. With this software,the machine and manpower utilization are Expected to go up by 80-90% approximately. The costs of not creating the system are set to be great, because precious can be wanted by manually**.**

1.3.2 OPERATIONAL FEASIBILITY

The project make use of GUI components, like button, dropdown list, etc. The project is design that the person who has basic knowledge on computer can work with this project easily.

1.3.3 TECHNICAL FEASIBILITY

The project entitle "SOFT SKILL MAITENANCE ", is technically below mentioned feature. The project was developed in ASP.NET which Graphical User Interface. It provides the high level of reliability, availability and compatibility. All these make ASP.NET appropriate language for this project. Thus the existing software ASP.NET is a powerful language.

CHAPTER-3

SYSTEM SPECIFICATION

2.1 HARWARE RE REQUIREMENTS

*** SYSTEM : Intel(R) Pentium 2.10 Ghz.**

*** Hard Disk : 300 GB**

*** RAM : 2GB**

2.2 SOFTWARE REQUIREMENTS

*** OS : Windows 7**

*** Front End : ASP.NET with c#**

*** Platform : Microsoft Visual Studio 2010**

***Back End : SQL**

Chapter-4

System specification

2.3 INTRODUCTION TO ASP.NET

ASP.NET is a web development platform, which provides a programming model, a comprehensive software infrastructure and various services required to build up robust web applications for PC, as well as mobile devices.

ASP.NET works on top of the HTTP protocol, and uses the HTTP commands and policies to set a browser-to-server bilateral communication and cooperation.

ASP.NET is a part of Microsoft .Net platform. ASP.NET applications are compiled codes, written using the extensible and reusable components or objects present in .Net framework. These codes can use the entire hierarchy of classes in .Net framework.

The ASP.NET application codes can be written in any of the following languages:

- C#
- Visual Basic.Net
- Jscript
- J#

ASP.NET is used to produce interactive, data-driven web applications over the internet. It consists of a large number of controls such as text boxes, buttons, and labels for assembling, configuring, and manipulating code to create HTML pages.

ASP.NET Web Forms Model

ASP.NET web forms extend the event-driven model of interaction to the web applications. The browser submits a web form to the web server and the server returns a full markup page or HTML page in response.

All client side user activities are forwarded to the server for stateful processing. The server processes the output of the client actions and triggers the reactions.

Now, HTTP is a stateless protocol. ASP.NET framework helps in storing the information regarding the state of the application, which consists of:

- Page state

- Session state

The page state is the state of the client, i.e., the content of various input fields in the web form. The session state is the collective information obtained from various pages the user visited and worked with, i.e., the overall session state. To clear the concept, let us take an example of a shopping cart.

User adds items to a shopping cart. Items are selected from a page, say the items page, and the total collected items and price are shown on a different page, say the cart page. Only HTTP cannot keep track of all the information coming from various pages. ASP.NET session state and server side infrastructure keeps track of the information collected globally over a session.

The ASP.NET runtime carries the page state to and from the server across page requests while generating ASP.NET runtime codes, and incorporates the state of the server side components in hidden fields.

This way, the server becomes aware of the overall application state and operates in a two-tiered connected way.

Common Language Runtime (CLR) overview

The .NET Framework provides a run-time environment called the common language runtime, which runs the code and provides services that make the development process easier. Compilers and tools expose the common language runtime's functionality and enable you to write code that benefits from this managed execution environment. Code that you develop with a language compiler that targets the runtime is called managed code; it benefits from features such as cross-language integration, cross-language exception handling, enhanced security, versioning and deployment support, a simplified model for component interaction, and debugging and profiling services.

To enable the runtime to provide services to managed code, language compilers must emit metadata that describes the types, members, and references in your code. Metadata is stored with the code; every loadable common language runtime portable executable (PE) file contains metadata. The runtime uses metadata to locate and load classes, lay out instances in memory, resolve method invocations, generate native code, enforce security, and set run-time context boundaries.

The runtime automatically handles object layout and manages references to objects, releasing them when they are no longer being used. Objects whose lifetimes are managed in this way are called managed data. Garbage collection eliminates memory leaks as well as some other common programming errors. If your code is managed, you can use managed data, unmanaged data, or both managed and unmanaged data in your .NET Framework application. Because

language compilers supply their own types, such as primitive types, you might not always know (or need to know) whether your data is being managed.

The common language runtime makes it easy to design components and applications whose objects interact across languages. Objects written in different languages can communicate with each other, and their behaviors can be tightly integrated.

.NET framework class library

The .net Framework class library is a collection of reusable types that tightly integrate with the common language runtime. The class library is object oriented, providing types from which your own managed code can drive functionality. This is not only makes the .net framework types easy to use, but also reduces the time associated with learning new features of the .NET Framework. In addition, third party components can integrate seamlessly with classes in the .NET Framework.

As you would expect from an object oriented class library, the .NET Framework types enable you to accomplish a range of common programming tasks, including tasks such as string management, data collection, database connectivity, and files access.

In addition to these common tasks, the class library includes types that support a variety of specialized development scenarios. For example, you can use the .Net Framework to develop the following types of applications and services.

- Console applications
- Scripted or hosted applications
- Windows GUI applications (Windows From).
- ASP.NET applications
- XML Web Services.

For example, the windows Forms classes are a comprehensive set of reusable types that fastly simplify Windows GUI development. If you write an Asp.net Web form applications, you can use the Web Forms Classes.

Active Server Pages (ASP)

In the early days of web page creation, Hyper-Text Markup Language (HTML) became the standard language of the World Wide Web (WWW). The language was simple to learn, mostly linear in execution, and efficient for delivery over dial-up connections used to access the Internet. As time marched on, HTML began to show its age as more and more content needed to be delivered dynamically rather than statically.

The rise of broadband Internet opened up the possibility of new technologies of which web page creators could take advantage. Streaming video, downloadable music files, multi-player gaming, and other advances made static web pages a stagnating force. To break free of static pages, Microsoft Corporation developed ASP for use with its Internet Information Services (IIS)

technology. Since Windows 2000 server, it has been a standard component with subsequent versions of IIS.

The .NET Framework

The .Net framework can be used to create both - Form-based and Web-based applications. Web services can also be developed using the .Net framework.

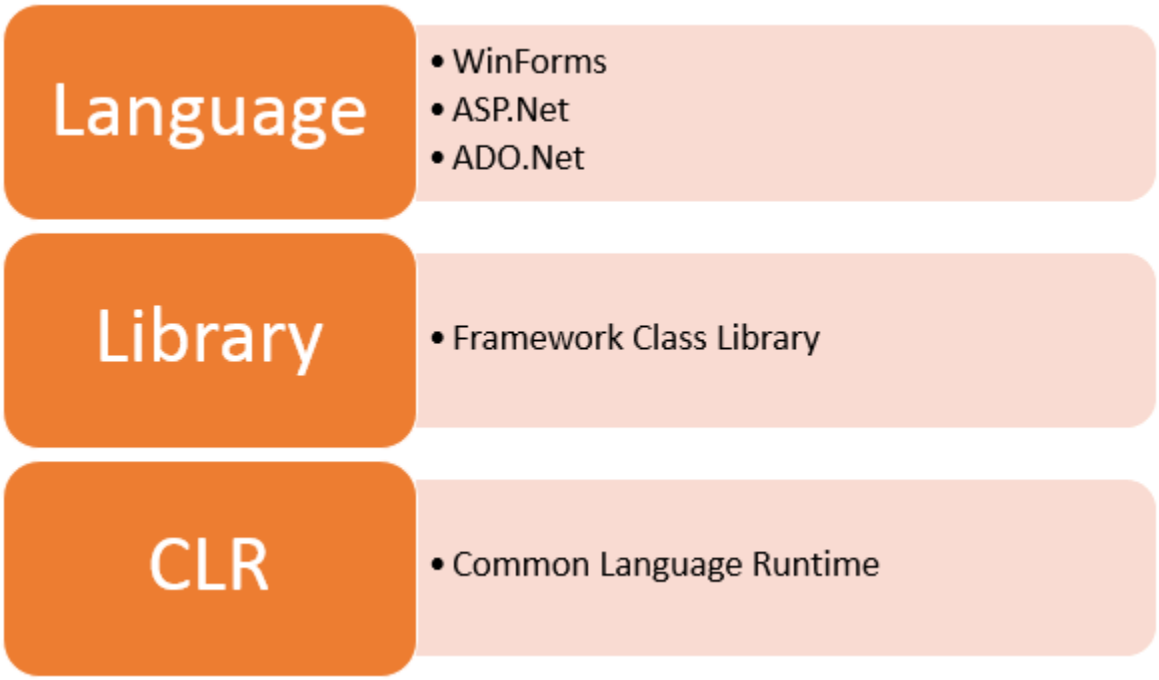
The framework also supports various programming languages such as Visual Basic and C#. So developers can choose and select the language to develop the required application. In this chapter, you will learn some basics of the .Net framework.

The common framework features are

- .Net Framework Architecture
- .NET Components
- .Net Framework Design Principle

.Net Framework Architecture

The basic architecture of the .Net framework is as shown below.



.net framework architecture diagram

.NET Components

The architecture of the .Net framework is based on the following key components.

1. Common Language Runtime

The "Common Language Infrastructure" or CLI is a platform on which the .Net programs are executed.

The CLI has the following key features:

- Exception Handling - Exceptions are errors which occur when the application is executed.

  Examples of exceptions are:

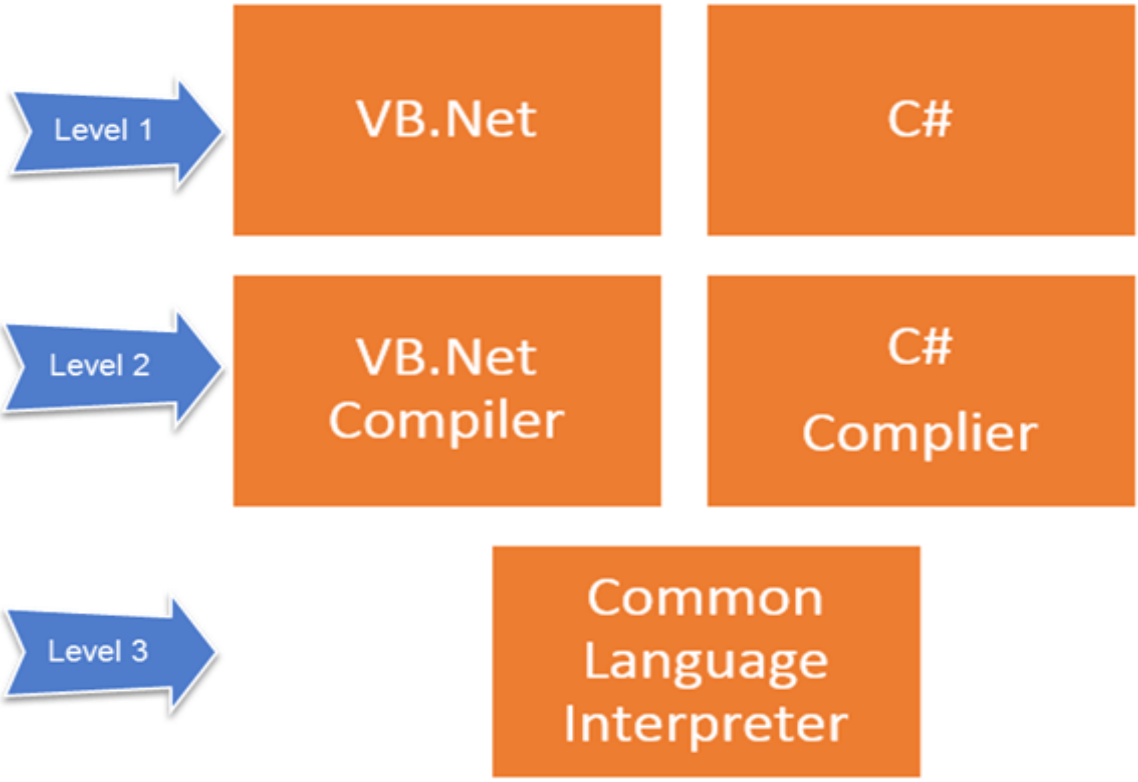
  - If an application tries to open a file on the local machine, but the file is not present.
  - If the application tries to fetch some records from a database, but the connection to the database is not valid.
  -
- Garbage Collection - Garbage collection is the process of removing unwanted resources when they are no longer required.

  Examples of garbage collection are

  - A File handle which is no longer required. If the application has finished all operations on a file, then the file handle may no longer be required.
  - The database connection is no longer required. If the application has finished all operations on a database, then the database connection may no longer be required.
  -
- Working with Various programming languages

As noted in an earlier section, a developer can develop an application in a variety of .Net programming languages.

1. Language - The first level is the programming language itself, the most common ones are VB.Net and C#.
2. Compiler – There is a compiler which will be separate for each programming language. So underlying the VB.Net language, there will be a separate VB.Net compiler. Similarly, for C#, you will have another compiler.
3. Common Language Interpreter – This is the final layer in .Net which would be used to run a .net program developed in any programming language. So the subsequent compiler will send the program to the CLI layer to run the .Net application.



2. Class Library

The .NET Framework includes a set of standard class libraries. A class library is a collection of methods and functions that can be used for the core purpose.

For example, there is a class library with methods to handle all file-level operations. So there is a method which can be used to read the text from a file. Similarly, there is a method to write text to a file.

Most of the methods are split into either the System.* or Microsoft.* namespaces. (The asterisk * just means a reference to all of the methods that fall under the System or Microsoft namespace)

A namespace is a logical separation of methods. We will learn these namespaces more in detail in the subsequent chapters.

3. Languages

The types of applications that can be built in the .Net framework is classified broadly into the following categories.

- WinForms – This is used for developing Forms-based applications, which would run on an end user machine. Notepad is an example of a client -based application.

- ASP.Net – This is used for developing web-based applications, which are made to run on any browser such as Internet Explorer, Chrome or Firefox.
    - The Web application would be processed on a server, which would have Internet Information Services Installed.
    - Internet Information Services or IIS is a Microsoft component which is used to execute anAsp.Net application.
    - The result of the execution is then sent to the client machines, and the output is shown in the browser.
- ADO.Net – This technology is used to develop applications to interact with Databases such as Oracle or Microsoft SQL Server.

Microsoft always ensures that .Net frameworks are in compliance with all the supported Windows operating systems.

.Net Framework Design Principle

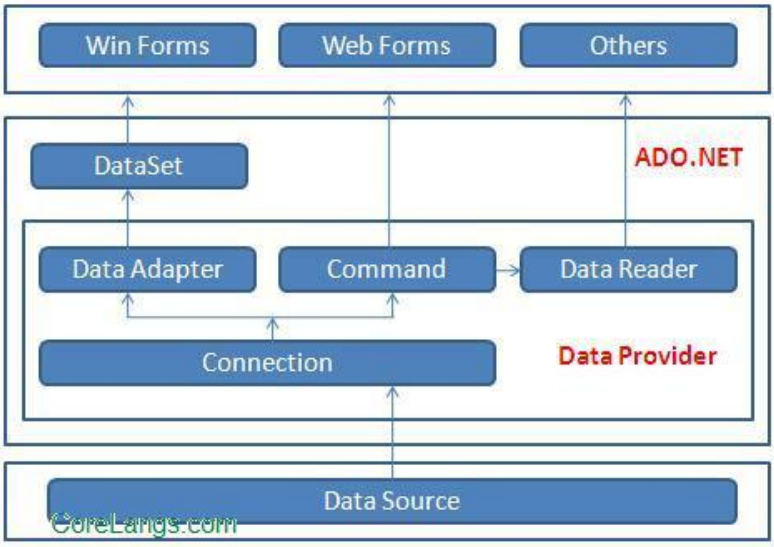
The following design principles of the .Net framework is what makes it very relevant to create .Net based applications.

1. Interoperability - The .Net framework provides a lot of backward support. Suppose if you had an application built on an older version of the .Net framework, say 2.0. And if you tried to run the same application on a machine which had the higher version of the .Net framework, say 3.5. The application would still work. This is because with every release, Microsoft ensures that older framework versions gel well with the latest version.
2. Portability- Applications built on the .Net framework can be made to work on any Windows platform. And now in recent times, Microsoft is also envisioning to make Microsoft products work on other platforms, such as iOS and Linux.
3. Security - The .NET Framework has a good security mechanism. The inbuilt security mechanism helps in both validation and verification of applications. Every application can explicitly define their security mechanism. Each security mechanism is used to grant the user access to the code or to the running program.
4. Memory management - The Common Language runtime does all the work or memory management. The .Net framework has all the capability to see those resources, which are not used by a running program. It would then release those resources accordingly. This is done via a program called the "Garbage Collector" which runs as part of the .Net framework.
5. The garbage collector runs at regular intervals and keeps on checking which system resources are not utilized, and frees them accordingly.
6. Simplified deployment - The .Net framework also have tools, which can be used to package applications built on the .Net framework. These packages can then be distributed to client machines. The packages would then automatically install the application.

3.3 Back END

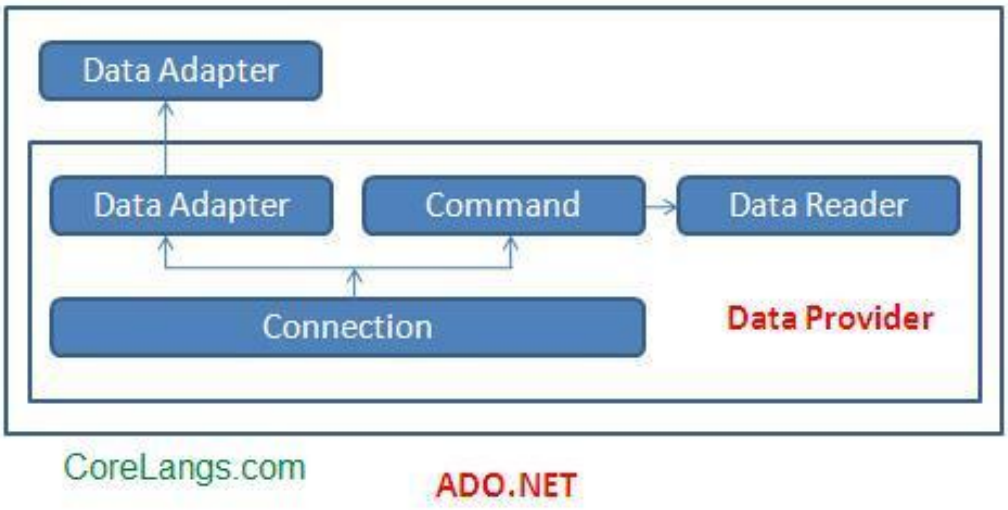
3.3.2 Architecture of SQL

ADO.NET



ADO.NET consist of a set of Objects that expose data access services to the .NET environment. It is a data access technology from Microsoft .Net Framework , which provides communication between relational and non relational systems through a common set of components .

System.Data namespace is the core of ADO.NET and it contains classes used by all data providers. ADO.NET is designed to be easy to use, and Visual Studio provides several wizards and other features that you can use to generate ADO.NET data access code.



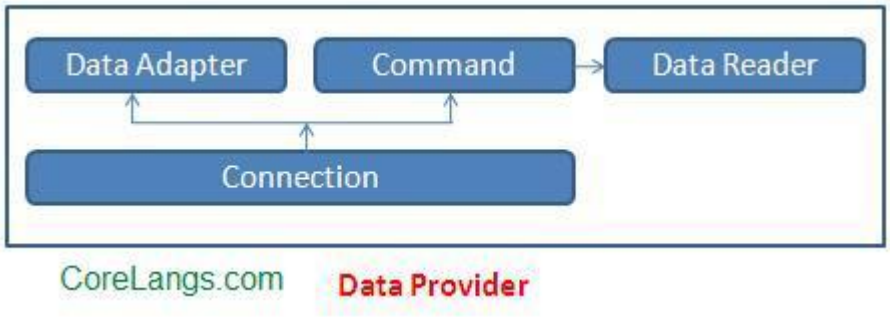
Data Providers and DataSet

The two key components of ADO.NET are Data Providers and DataSet . The Data Provider classes are meant to work with different kinds of data sources. They are used to perform all data-management operations on specific databases. DataSet class provides mechanisms for managing data when it is disconnected from the data source.

Data Providers

The .Net Framework includes mainly three Data Providers for ADO.NET. They are the Microsoft SQL Server Data Provider , OLEDB Data Provider and ODBC Data Provider . SQL Server uses the SqlConnection object , OLEDB uses the OleDbConnection Object and ODBC uses OdbcConnection Object respectively.

ASP.NET SQL Server Connection



A data provider contains Connection, Command, DataAdapter, and DataReader objects. These four objects provides the functionality of Data Providers in the ADO.NET.

Connection

The Connection Object provides physical connection to the Data Source. Connection object needs the necessary information to recognize the data source and to log on to it properly, this information is provided through a connection string.

ASP.NET Connection

Command

The Command Object uses to perform SQL statement or stored procedure to be executed at the Data Source. The command object provides a number of Execute methods that can be used to perform the SQL queries in a variety of fashions.

ASP.NET Command

DataReader

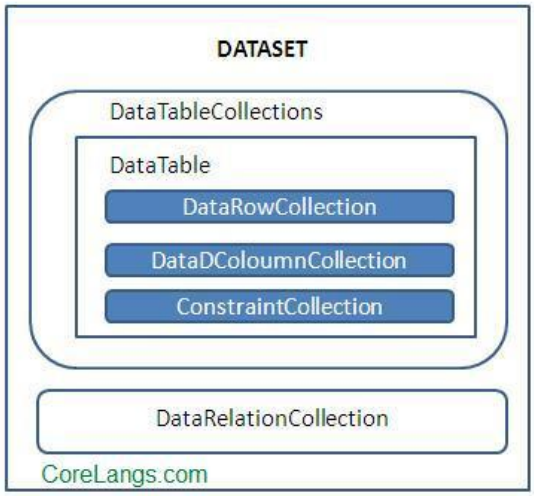
The DataReader Object is a stream-based , forward-only, read-only retrieval of query results from the Data Source, which do not update the data. DataReader requires a live connection with the databse and provides a very intelligent way of consuming all or part of the result set.

ASP.NET DataReader

DataAdapter

DataAdapter Object populate a Dataset Object with results from a Data Source . It is a special class whose purpose is to bridge the gap between the disconnected Dataset objects and the physical data source.

ASP.NET DataAdapter



DataSet

DataSet provides a disconnected representation of result sets from the Data Source, and it is completely independent from the Data Source. DataSet provides much greater flexibility when dealing with related Result Sets.

DataSet contains rows, columns,primary keys, constraints, and relations with other DataTable objects. It consists of a collection of DataTable objects that you can relate to each other with DataRelation objects. The DataAdapter Object provides a bridge between the DataSet and the Data Source.

CHAPTER-5

4.1 PROBLEM DEFINITION

The project entitled “Soft Skill Maintenance” is a window based bapplication desgined for the attendance maintenance purpose. And the project is used to manage all the information of the student studying Soft skill course like fees,attendance, regular classes alert ect,. The Administrator has the overall control this application. Those authorized users can’t access these informations. It is used to known all the details of the students and the classes.

4.2 MODULE DESCRIPTION

The project “Soft skill course Maintenance” deals with the following modules:

- Login
- Students details
- Weekly attendance
- Weekly report
- Fees details
- Sending email

Login

Logging is usually used to enter a specific page, which trespassers cannot see. Once the Admin is logged in, the login token may be used to track what actions the Admin has taken while connect to the side logging out may be performed explicitly by the admin taking some actions, such as entering the appropriate comment, or clicking checking the website link labeled as such.

Student details

This model contains the overall students studying in soft skill courses. Which helps to find the number of student in specific shift and department.

Weekly attendance

This module helps to take a attendance for the soft skill classes. To know the weekly reveal of attendance present and absence status, this will help the admin to mark the attendance status for all the students.

Fees details

This module contains the fees details of the students such if they paid or not. And it helps to update the fees to specific students based on their Roll no.

Weekly report

This module helps to gets the report from attendance. It returns the number of students or single students attendance report.

Sending mail

This module helps to alert the regular classes using emails of the students and also used to send pdf notes which helps students to get notes .

4.3 DATA FLOW DIAGRAM

DESIGN TABLE

TABLE NAME : Student_details_table

s.no	Field Name	Data type
1.	Rollno	varchar(50)
2	Sname	varchar(50)
3	Department	varchar(50)
4	Year	varchar(50)
5	diplamo_course	varchar(50)
6	Shift	varchar(50)
7	fees_paid	money
8	fees_remaining	money
9	e_mail	varchar(50)
10	Phono	nchar(10)
11	day1	date
12	day1_status	varchar(50)
13	day2	date
14	day2_status	varchar(50)
15	day3	date
16	day3_status	varchar(50)
17	day4	date
18	day4_status	varchar(50)

19	day5	date
20	day5_status	varchar(50)
21	day6	date
22	day6_status	varchar(50)
23	day7	date
24	day_status	varchar(50)
25	last_week_total_absents	varchar(50)
26	last_week_total_presents	varchar(50)
27	total_count	varchar(50)

CHAPTER-6

System Testing

System Testing :

System Testing (ST) is a black box testing technique performed to evaluate the complete system the system's compliance against specified requirements. In System testing, the functionalities of the system are tested from an end-to-end perspective.

System Testing is usually carried out by a team that is independent of the development team in order to measure the quality of the system unbiased. It includes both functional and Non-Functional testing.

Testing Approaches

Tests can be conducted based on two approaches –

- Functionality testing
- Implementation testing

Black-box testing

It is carried out to test functionality of the program. It is also called 'Behavioral' testing. The tester in this case, has a set of input values and respective desired results. On providing input, if the output matches with the desired results, the program is tested 'ok', and problematic otherwise.

This testing has been uses to find errors in the following categories.

a) Incorrect or missing function

b) Interface error

c) Errors in data structures or external database access

d) Performance errors

e) Initializations and termination errors

In this testing only the output is checked for correctness. The logical flow of data is not checked.

Black-box testing for Authentication

s.no	Test Case	Expected Result
1.	Valid user name and password	Display home page.
2.	Valid user name and invalid password	Display same page and message box for error message.
3.	Invalid user name and valid password	Display same page and message box for error message.
4.	Valid user name and Invalid password	Display same page and message box for error message.

White-box testing

It is conducted to test program and its implementation, in order to improve code efficiency or structure. It is also known as 'Structural' testing.

In this testing method, the design and structure of the code are known to the tester. Programmers of the code conduct this test on the code.

In this test cases are generated on the logic of each module by testing flow graphs of that module and logical decisions are tested on all cases.

a) Guarantee all logical independent paths have been executed.

b) Executes all loops decisions on their true and false sides.

c) Executes all loops at their boundaries and within their operational bounds.

d) Executes internal data structure to ensure their validity.

PROCEDURE FOR AUTHENTICATION

1. Input user name and password.
2. if(valid username and password) then
3. Allow transaction to be done.
4. Else display login page and prompt to enter username and password.
5. End if.

CHAPTER-7

SYSTEM IMPLEMENTATION

Implementation is the stage in the project where the theoretical design is turned into a working system. The implementation phase constructs, installs and Operates the new system. The most crucial stage in achieving a new successful system is that it will work efficiently and effectively.

There are several activities involved while implementing a new project they are

- End user training
- End user education
- Training on the application software
- System design
- Parallel run and new system
- Post implementation review

End user training

The successful implementation of the new system will purely upon the involvement of the officers working in department. The officers will be imparted the necessary training on the new technology.

End user Education

The education of the end user after the implementation and testing is over. When the system is found to be more difficult to understand and complex, more effort is put to educate the end used to make them aware of the system, giving them lectures about the new system and providing them necessary documents and materials about how the system can do this.

Training of Applications software

After providing the necessary basic training on the computer awareness, the user will have to trained upon the new system as screen design type of help on the screen, type of errors while entering the data the corresponding validation check at each entry and the way to correct

the data entered. It should then cover information needed by the specific user or group to use the system.

Post Implementation view

The department is planning a method to know the states of the past implementation process. For that regular meeting will be arranged by the concerned officers about the implementation problem and success.

CHAPTER-8

CONCLUSION & FUTURE ENHANCEMENT

8.1 CONCLUTION

This project defined the maintenance of online course Soft Skill.

It is used to know about the students details for the course. And also this project maintain the attendance for every classes. This project is one of the real projects. It will be developed in future for the further assistance.

I have not done software that can perform each every classes details to be stored. But it still effective one. I also hope I would do better software in future.

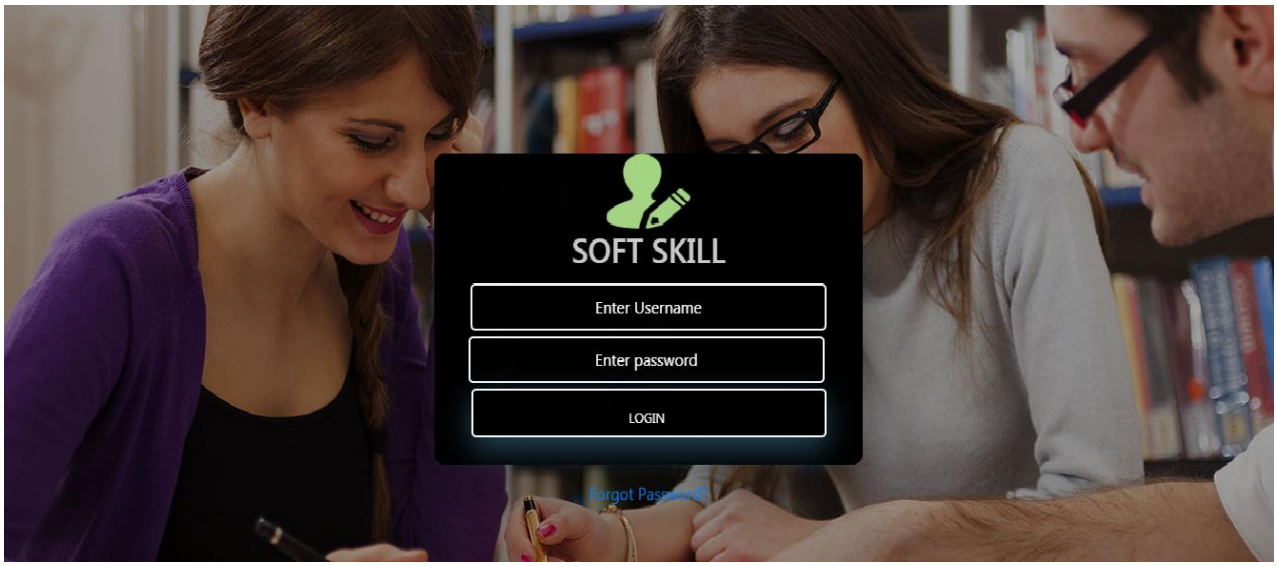
8.2 FUTURE ENHANCEMENT

My project have a big scope to achieve

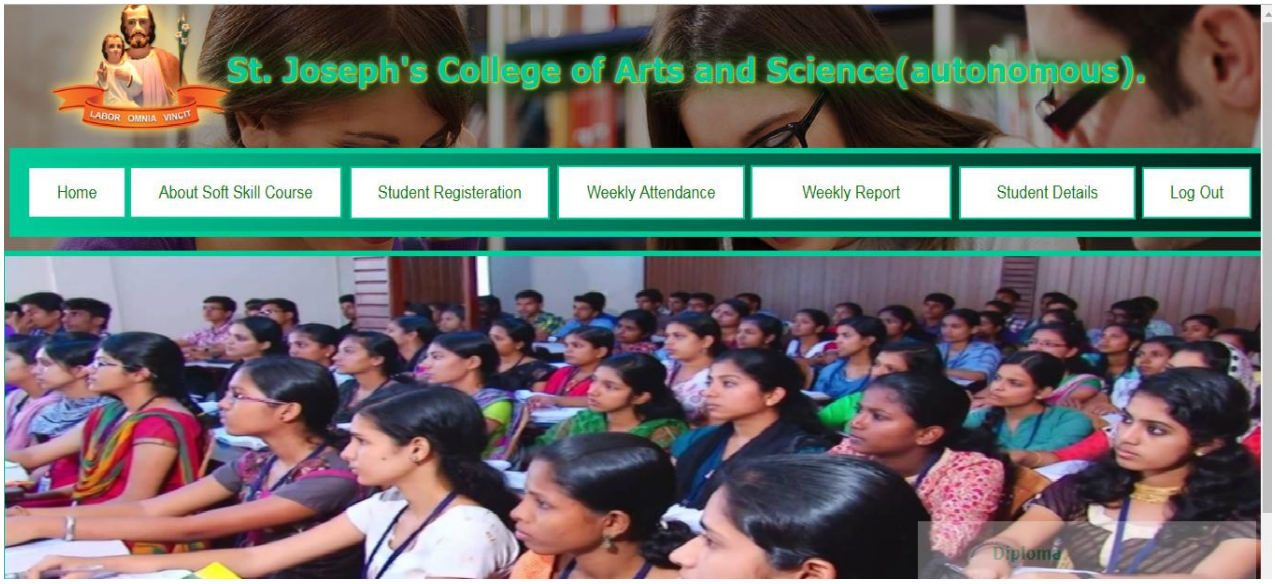
- We can store the number of students yearly finishing the course.
- We can add the sms module in order to inform the classes.
- We can add the students visitation.
- We can add old question papers for final exam certification.

Screen shots

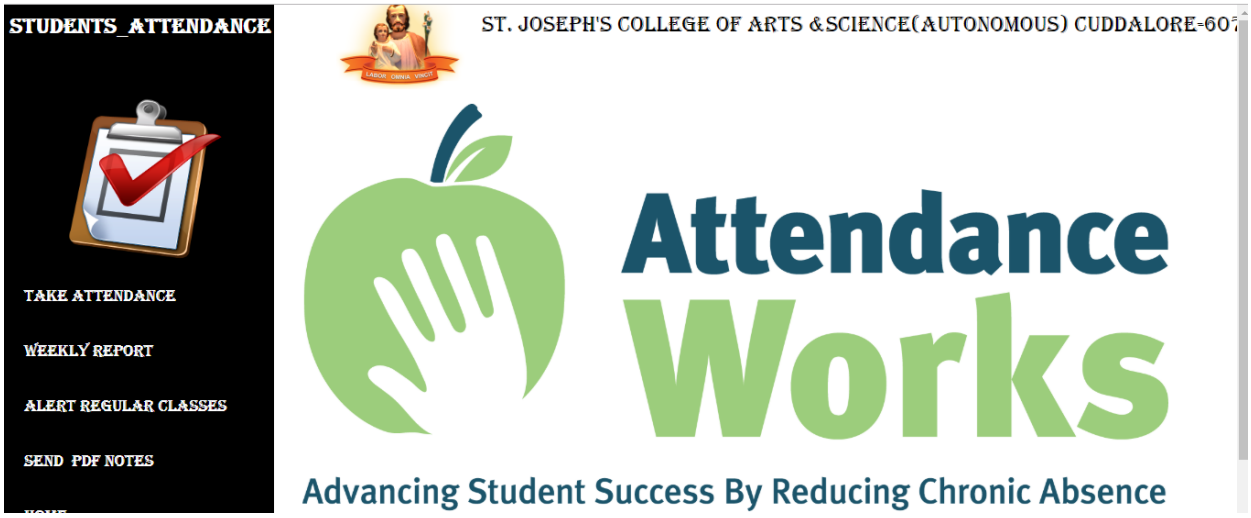
Login.aspx



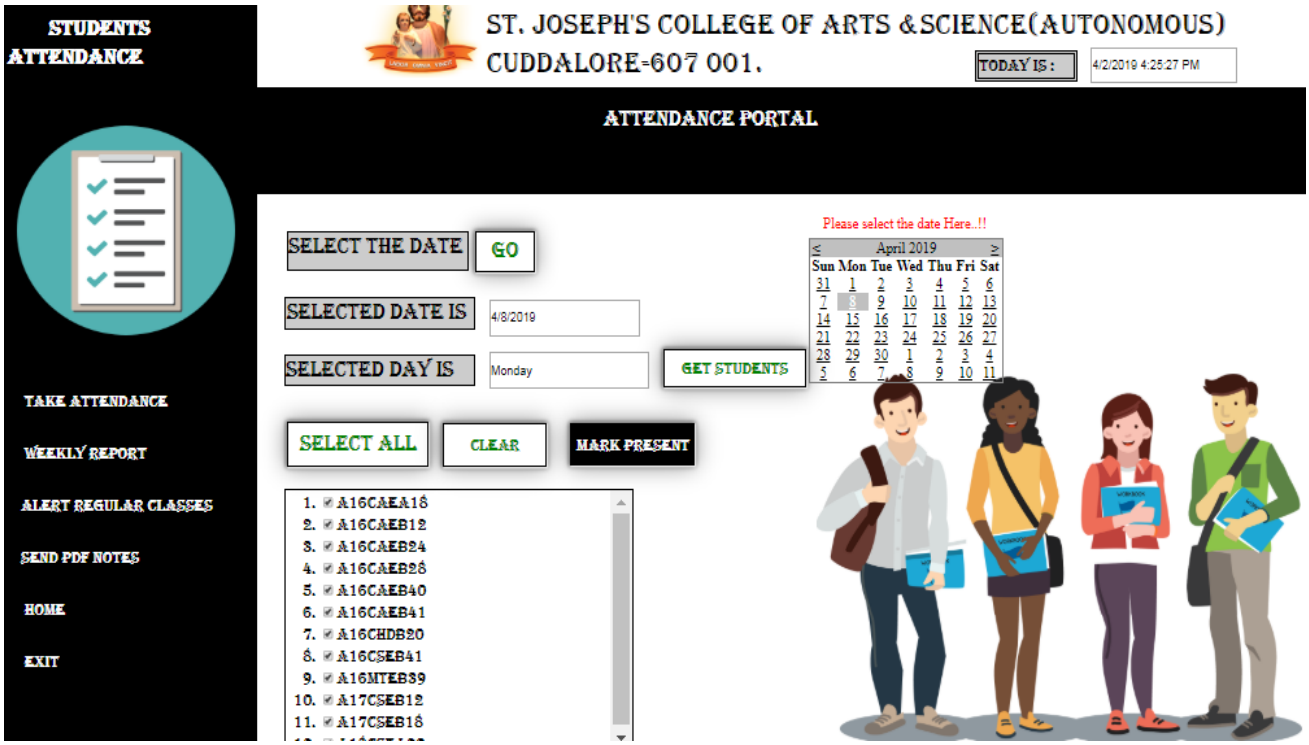
Home.aspx



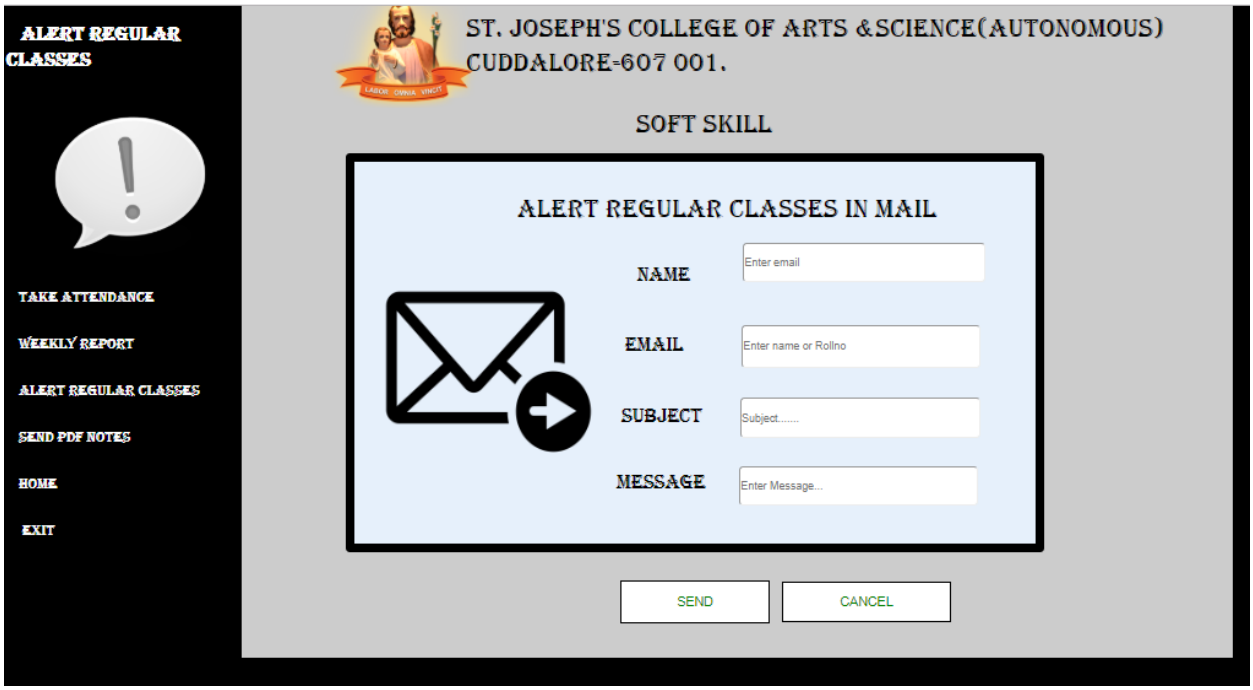
Students_attendance_home.aspx



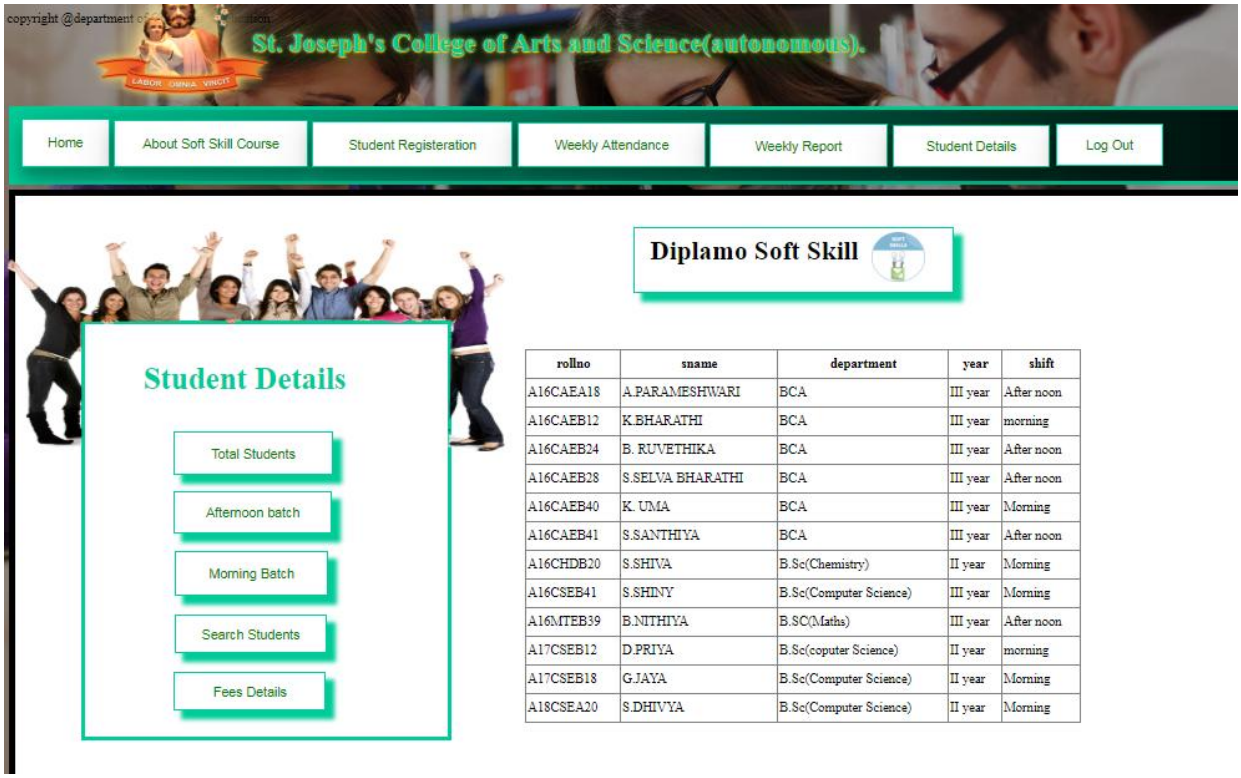
Students_attendance.aspx



Alert_regulerclasses.aspx

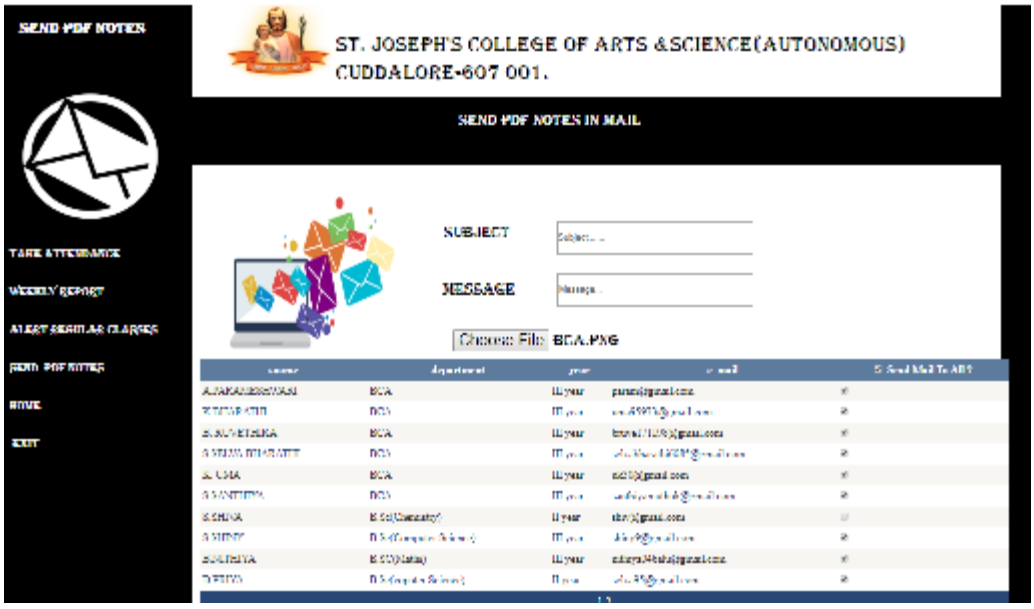


Student_details.aspx

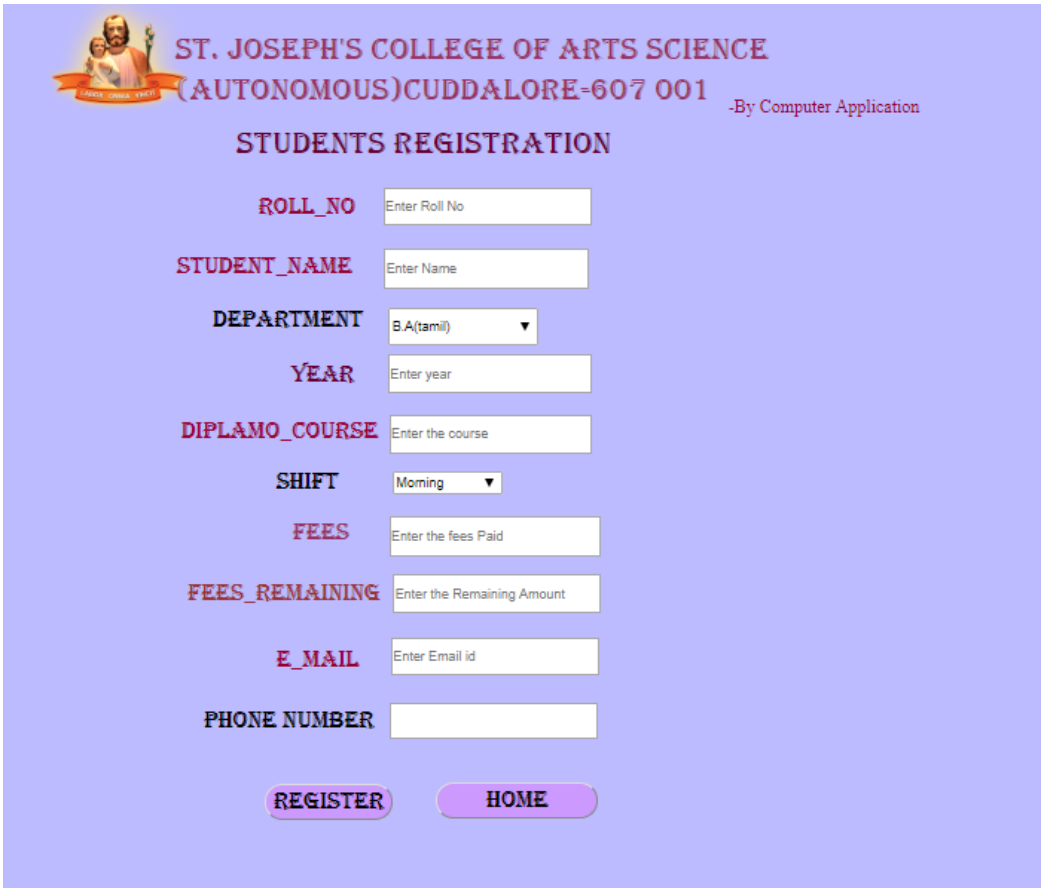


rollno	sname	department	year	shift
A16CAEA18	A.PARAMESHWARI	BCA	III year	After noon
A16CAEB12	K.BHARATHI	BCA	III year	morning
A16CAEB24	B. RUVETHIKA	BCA	III year	After noon
A16CAEB28	S.SELVA BHARATHI	BCA	III year	After noon
A16CAEB40	K. UMA	BCA	III year	Morning
A16CAEB41	S.SANTHIYA	BCA	III year	After noon
A16CHDB20	S.SHIVA	B.Sc(Chemistry)	II year	Morning
A16CSEB41	S.SHINY	B.Sc(Computer Science)	III year	Morning
A16MTEB39	B.NITHIYA	B.SC(Maths)	III year	After noon
A17CSEB12	D.PRIYA	B.Sc(coputer Science)	II year	morning
A17CSEB18	G.JAYA	B.Sc(Computer Science)	II year	Morning
A18CSEA20	S.DHIVYA	B.Sc(Computer Science)	II year	Morning

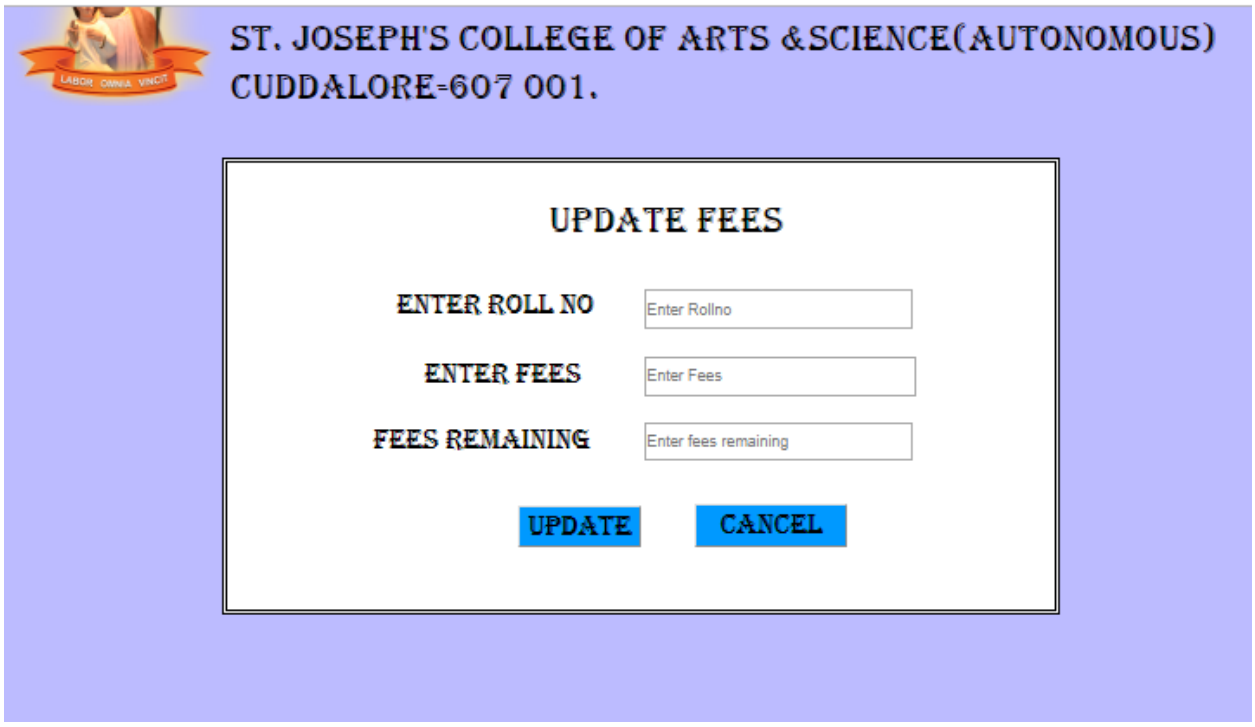
Email.aspx



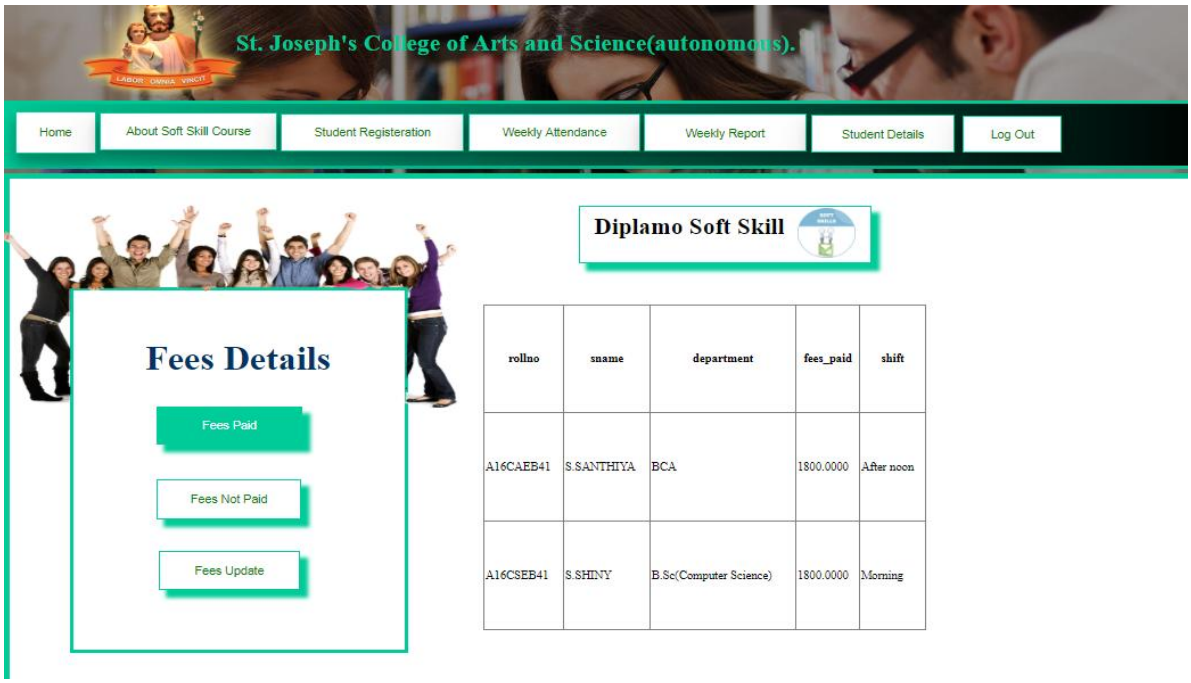
Student_registration.aspx



updateFees.aspx



Fees_details.aspx



SOURCE CODE

LOGIN

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
public partial class login : System.Web.UI.Page
{
    SqlCommand cmd;
    SqlConnection con;
    SqlDataReader dr;
    protected void Page_Load(object sender, EventArgs e)
    {
  con=newSqlConnection(@"DataSource=WINCTRL-9H3IPGK\SQLEXPRESS;Initial
Catalog=msdb;Integrated Security=True");
    }
        protected void Button2_Click(object sender, EventArgs e)
    {
     Button2.Attributes.Add("OnClick","window.close();");
      }
    protected void Button1_Click2(object sender, EventArgs e)
    {
        con.Open();
        string uname = TextBox1.Text;

        cmd = new SqlCommand("select*from login where user_name='" +
TextBox2.Text + "' and password='" + TextBox1.Text + "' ", con);
        dr = cmd.ExecuteReader();
        if (dr.Read())
        {
            Response.Write("<Script>alert('login successfull '+ uname)
</Script>");
            Response.Redirect("Home_page.aspx");
        }
        else
        {
            Response.Write("<script>alert('username     or     password
incorrect!!' + uname)</script>");
        }
        con.Close();
    }
}
```

Add_students.aspx

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
using System.Data;

public partial class Add_students : System.Web.UI.Page
{
    SqlCommand cmd;
    SqlConnection con;
    /* int amount = 1800;
         int amt=Convert.ToInt32(TextBox6.Text);
         TextBox7.Text = Convert.ToString(amount - amt);*/

    protected void Page_Load(object sender, EventArgs e)
    {
        con=newSqlConnection(@"DataSource=WINCTRL-
9H3IPGK\SQLEXPRESS;Initial Catalog=msdb;Integrated Security=True");
    }


    protected void Button1_Click(object sender, EventArgs e)
    {
        con.Open();
        string depart, s, rno, sn, yr, dc, fee, fere, em,pn;
        rno = TextBox1.Text;
        sn = TextBox2.Text;
        dc = TextBox9.Text;
        yr = TextBox4.Text;
        fee = TextBox6.Text;
        fere = TextBox7.Text;
        em = TextBox8.Text;
        pn = TextBox10.Text;
         depart = DropDownList1.SelectedItem.Value;
         s = DropDownList2.SelectedItem.Value;
       cmd=newSqlCommand("insertinto
student_details_table(rollno,sname,department,year,diplamo_course,sess
ion,fees_paid,fees_remaining,e_mail,phno)
values('"+rno+"','"+sn+"','"+depart+"','"+yr+"','"+dc+"','"+s+"','"+fe
e+"','"+fere+"','"+em+"','"+pn+"')", con);
        cmd.ExecuteNonQuery();
```

```
        con.Close();

Response.Write("<scrtipt>alert('StudentAddedSuccessfullly')</Script>")
;
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        Response.Redirect("Home_page.aspx");
    }
    }
```

Attendance.aspx

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;

public partial class Attendance : System.Web.UI.Page
{
    SqlCommand cmd;
    SqlConnection con;
    protected void Page_Load(object sender, EventArgs e)
    {
        Calendar1.Visible = false;
        CheckBoxList1.Visible = false;
        TextBox2.Text=DateTime.Now.ToString();
        con     =     new     SqlConnection(@"Data     Source=WINCTRL-
9H3IPGK\SQLEXPRESS;Initial Catalog=msdb;Integrated Security=True");
        Button3.Visible = false;
        Button4.Visible = false;
        Button5.Visible = false;



    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        Label9.Visible = true;
        Label9.Text = "Please select the date Here..!!";
```

```
        Calendar1.Visible = true;
    }
    protected void Calendar1_SelectionChanged(object sender, EventArgs
e)
    {

        Calendar1.Visible = true;
        Label9.Visible = true;
        TextBox1.Text = Calendar1.SelectedDate.ToShortDateString();

TextBox3.Text=Convert.ToString(Calendar1.SelectedDate.DayOfWeek);

    }
    protected void Button2_Click(object sender, EventArgs e)//calendar
    {

        Calendar1.Visible = true;
        CheckBoxList1.Visible = true;
        Button3.Visible = true;
        Button4.Visible = true;
        Button5.Visible = true;

    }
    protected void Button3_Click(object sender, EventArgs e)//present
    {
        con.Open();
        Session["dat"] = TextBox1.Text;
        Session["dyy"] = TextBox3.Text;
        Button3.Visible = true;
        Button4.Visible = true;
        Button5.Visible = true;
        CheckBoxList1.Visible = true;
        Label9.Visible = false;
        string day = Convert.ToString(TextBox3.Text);
        int n = CheckBoxList1.Items.Count;

        string s=string.Empty;
        if (IsPostBack)
        {


            // MARK PRESENT
            for (int i = 0; i < n; i++)
            {
                if (CheckBoxList1.Items[i].Selected)
```

```
                {

                    s = CheckBoxList1.Items[i].ToString() + " ";


                    if (day == "Monday")
                    {

                   cmd = new SqlCommand("update student_details_table
set day2='" + TextBox1.Text + "',day2_status='P' where rollno='" + s +
"' ", con);
                        Response.Write("<script>alert('Monday       is
Updated')</script>");
                        cmd.ExecuteNonQuery();

                    }
                    else if (day == "Tuesday")
                    {

                    cmd = new SqlCommand("update student_details_table
set day3='" + TextBox1.Text + "',day3_status='P' where rollno='" + s +
"' ", con);
                        Response.Write("<script>alert('Tuesday      is
Updated')</script>");
                        cmd.ExecuteNonQuery();

                    }

                    else if (day == "Wednesday")
                    {

                   cmd = new SqlCommand("update student_details_table
set day4='" + TextBox1.Text + "',day4_status='P' where rollno='" + s +
"' ", con);
                        cmd.ExecuteNonQuery();
                        Response.Write("<script>alert('Wednesday    is
Updated')</script>");

                    }
                    else if (day == "Thursday")
                    {

            cmd  =  new  SqlCommand("update  student_details_table  set
day5='" + TextBox1.Text + "',day5_status='P' where rollno='" + s + "'
", con);
```

```
                        Response.Write("<script>alert('Thursday      is
Updated')</script>");
                        cmd.ExecuteNonQuery();

                    }
                    else if (day == "Friday")
                    {

      cmd = new SqlCommand("update student_details_table set day6='" +
TextBox1.Text + "',day6_status='P' where rollno='" + s + "' ", con);
                        cmd.ExecuteNonQuery();
                        Response.Write("<script>alert('Friday        is
Updated')</script>");

                    }
                    else if (day == "Saturday")
                    {

                cmd = new SqlCommand("update student_details_table set
day7='" + TextBox1.Text + "',day7_status='P' where rollno='" + s + "'
", con);
                        cmd.ExecuteNonQuery();
                        Response.Write("<script>alert('Saturday      is
Updated')</script>");

                    }
                    else if (day == "Sunday")
                    {

                   cmd  =  new  SqlCommand("update  student_details_table
set day1='" + TextBox1.Text + "',day1_status='P' where rollno='" + s +
"' ", con);
                        cmd.ExecuteNonQuery();
                        Response.Write("sunday is holiday!!!");

                    }
                }
                    else
                    {

                    if (day == "Monday")
                    {

                        cmd       =       new       SqlCommand("update
student_details_table set day2='" + TextBox1.Text + "',day2_status='A'
where rollno='" + s + "' ", con);
```

```
                        Response.Write("<script>alert('Monday        is
Updated')</script>");
                        cmd.ExecuteNonQuery();

                    }
                    else if (day == "Tuesday")
                    {

                        cmd       =       new       SqlCommand("update
student_details_table set day3='" + TextBox1.Text + "',day3_status='A'
where rollno='" + s + "' ", con);
                        Response.Write("<script>alert('Tuesday       is
Updated')</script>");
                        cmd.ExecuteNonQuery();

                    }

                    else if (day == "Wednesday")
                    {

                        cmd       =       new       SqlCommand("update
student_details_table set day4='" + TextBox1.Text + "',day4_status='A'
where rollno='" + s + "' ", con);
                        cmd.ExecuteNonQuery();
                        Response.Write("<script>alert('Wednesday     is
Updated')</script>");

                    }
                    else if (day == "Thursday")
                    {

                        cmd       =       new       SqlCommand("update
student_details_table set day5='" + TextBox1.Text + "',day5_status='A'
where rollno='" + s + "' ", con);
                        Response.Write("<script>alert('Thursday      is
Updated')</script>");
                        cmd.ExecuteNonQuery();

                    }
                    else if (day == "Friday")
                    {

                        cmd       =       new       SqlCommand("update
student_details_table set day6='" + TextBox1.Text + "',day6_status='A'
where rollno='" + s + "' ", con);
                        cmd.ExecuteNonQuery();
```

```
                        Response.Write("<script>alert('Friday        is
Updated')</script>");

                    }
                    else if (day == "Saturday")
                    {

                        cmd       =       new       SqlCommand("update
student_details_table set day7='" + TextBox1.Text + "',day7_status='A'
where rollno='" + s + "' ", con);
                        cmd.ExecuteNonQuery();
                        Response.Write("<script>alert('Saturday      is
Updated')</script>");

                    }
                    else if (day == "Sunday")
                    {

                        cmd       =       new       SqlCommand("update
student_details_table set day1='" + TextBox1.Text + "',day1_status='A'
where rollno='" + s + "' ", con);
                        cmd.ExecuteNonQuery();
                        Response.Write("sunday is holiday!!!");

                    }
                    else
                    {
                     Response.Write("please    select    the    required
date");
                    }

                    Response.Write("<script>alert('Successfully  Marked
Absent')</script>");
                }
                        Response.Write("please   select   the   required
date");

                    Response.Write("<script>alert('Successfully
Marked')</script>");
                }
            }
        Response.Redirect("r.aspx");
        con.Close();
    }
    protected void Button4_Click(object sender, EventArgs e)
    {
```

```
        Button3.Visible = true;
        Button4.Visible = true;
        Button5.Visible = true;
        CheckBoxList1.Visible = true;
        CheckBoxList1.ClearSelection();
    }
    protected    void    Button5_Click(object    sender,    EventArgs
e)//selectall
    {

        Label9.Visible = true;
        Calendar1.Visible = true;
        CheckBoxList1.Visible = true;
        Button3.Visible = true;
        Button4.Visible = true;
        Button5.Visible = true;
        con.Open();
        foreach (ListItem item in CheckBoxList1.Items)
        {
            item.Selected = true;

        }
    }
```

Student_details.aspx

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;

public partial class Student_details : System.Web.UI.Page
{

    SqlConnection con;
    SqlCommand cmd;
    SqlDataReader dr;
    DataTable dt = new DataTable();

    protected void Page_Load(object sender, EventArgs e)
    {
        Image4.Visible = true;
```

```
        GridView1.Visible = false;
        con     =     new     SqlConnection(@"Data     Source=wINCTRL-
9H3IPGK\SQLEXPRESS;Initial Catalog=msdb;Integrated Security=True");
    }
    protected void Button1_Click(object sender, EventArgs e)
    {

        Response.Redirect("Home_page.aspx");


    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        Response.Redirect("courses_details.aspx");
    }
    protected void Button3_Click1(object sender, EventArgs e)
    {
        Response.Redirect("Add_students.aspx");
    }
    protected void Button4_Click(object sender, EventArgs e)
    {
        Response.Redirect("Students_Attendance.aspx");
    }
    protected void Button5_Click(object sender, EventArgs e)
    {
        Response.Redirect("Student_Attendance_report.aspx");
    }
    protected void Button6_Click(object sender, EventArgs e)
    {
        Response.Redirect("Student_details.aspx");
    }
    protected void Button7_Click(object sender, EventArgs e)
    {
        Response.Redirect("login.aspx");
    }
    protected void Button8_Click(object sender, EventArgs e)
    {
        Image4.Visible = false;
        GridView1.Visible = true;
        con.Open();
        cmd=new  SqlCommand("select  rollno,sname,department,year,shift
from student_details_table ", con);
        dr = cmd.ExecuteReader();
        dt.Load(dr);
        GridView1.DataSource = dt;
        GridView1.DataBind();
```

```
        con.Close();

    }
    protected void Button9_Click(object sender, EventArgs e)
    {

        Image4.Visible = false;
        GridView1.Visible = true;
        con.Open();
       cmd=new SqlCommand("select  rollno,sname,department,year,session
from student_details_table where shift='After noon' " , con);
        dr = cmd.ExecuteReader();
        dt.Load(dr);
        GridView1.DataSource = dt;
        GridView1.DataBind();
        con.Close();
    }
    protected void Button10_Click(object sender, EventArgs e)
    {
        Image4.Visible = false;
        GridView1.Visible = true;
        con.Open();
       cmd=new SqlCommand("select  rollno,sname,department,year,session
from student_details_table where shift='Morning' ", con);
        dr = cmd.ExecuteReader();
        dt.Load(dr);
        GridView1.DataSource = dt;
        GridView1.DataBind();
        con.Close();
    }
    protected void Button11_Click(object sender, EventArgs e)
    {
        Response.Redirect("Search_students.aspx");
    }
    protected void Button12_Click(object sender, EventArgs e)
    {

        Response.Redirect("fees_details.aspx");
    }

}
```

Email.aspx

```
using System;
using System.Collections.Generic;
using System.Linq;
```

```
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Net.Mail;
using System.Net;
using System.Data;
using System.Data.SqlClient;
using System.Collections;
using System.Threading.Tasks;



public partial class email : System.Web.UI.Page
{
    SqlCommand cmd;
    SqlConnection con;

    SqlDataReader dr;
    SqlDataAdapter ad;
    DataTable dt = new DataTable();
    protected void Page_Load(object sender, EventArgs e)
    {
        con     =     new     SqlConnection(@"Data     Source=wINCTRL-
9H3IPGK\SQLEXPRESS;Initial Catalog=msdb;Integrated Security=True");

        if (!Page.IsPostBack)
        {
            refreshdata();
        }

    }
    public void refreshdata()
    {


        cmd             =             new             SqlCommand("select
rollno,sname,department,year,e_mail from student_details_table", con);
        SqlDataAdapter sda = new SqlDataAdapter(cmd);
        DataTable dt = new DataTable();
        sda.Fill(dt);

        grstu.DataSource = dt;
        grstu.DataBind();


    }
```

```
    protected void Button1_Click(object sender, EventArgs e)
    {

          string rno = string.Empty;
        DataTable dt = new DataTable();
        try
        {
            foreach (GridViewRow row in grstu.Rows)
            {
                CheckBox cb = (CheckBox)row.FindControl("chkSelect");

                if (cb.Checked == true)
                {
                    if (cb != null && cb.Checked)
                    {
                        //get Current EMAIL_ID from the DataKey
                        rno                                                 =
Convert.ToString(grstu.DataKeys[row.RowIndex].Value);
                        SqlCommand cmd = new SqlCommand("select e_mail
from  student_details_table where rollno=" + rno+ "", con);
                        SqlDataAdapter adp = new SqlDataAdapter(cmd);
                        //Fill  datatable  with  EMAIL_ID  corresponding
to Current EMP_ID
                        adp.Fill(dt);
                        //Get EMAIL_ID into variable
                     String emailId = dt.Rows[0]["e_mail"].ToString();
                        //write code to send mail
                        SendEmailUsingGmail(emailId);
                        dt.Clear();
                        dt.Dispose();
                    }
                }
            }
            ScriptManager.RegisterClientScriptBlock(Page,
Page.GetType(),    Guid.NewGuid().ToString(),    "alert('Emails    sent
successfully');", true);
            Response.Write("<script>alert('mails        are        sent
successfully')</script>");
        }
        catch (Exception ex)
        {
            Response.Write("Error occured: " + ex.Message.ToString());
        }
        finally
        {
            rno = string.Empty;
```

```
        }
    }

    private void SendEmailUsingGmail(string toEmailAddress)
    {
        try
        {
            string sub, msg;
            sub = TextBox1.Text;
            msg = TextBox2.Text;

            SmtpClient smtp = new SmtpClient();
            smtp.Credentials                    =                    new
NetworkCredential("sowmyaselvam461@gmail.com", "30111998selva");
            smtp.Port = 587;
            smtp.Host = "smtp.gmail.com";
            smtp.EnableSsl = true;
            MailMessage message = new MailMessage();
            message.From=new MailAddress("sowmyaselvam461@gmail.com");
            message.To.Add(toEmailAddress);
            message.Subject = sub;
            message.Body = msg;
            smtp.Send(message);
        }
        catch(Exception ex)
        {
            Response.Write("Error occured: " + ex.Message.ToString());
        }
    }

    protected   void      chkSelectAll_CheckedChanged(object   sender,
EventArgs e)
{
          CheckBox chkAll =
           (CheckBox)grstu.HeaderRow.FindControl("chkSelectAll");
        if (chkAll.Checked == true)
        {
            foreach (GridViewRow gvRow in grstu.Rows)
            {
                CheckBox chkSel =
                     (CheckBox)gvRow.FindControl("chkSelect");
                chkSel.Checked = true;
            }
        }
        else
        {
```

```
            foreach (GridViewRow gvRow in grstu.Rows)
            {

CheckBoxchkSel=(CheckBox)gvRow.FindControl("chkSelect");
                chkSel.Checked = false;
            }
        }
}
    protected void Button2_Click(object sender, EventArgs e)
    {
        Response.Redirect("Students_Attendance.aspx");
    }

}
```

Search_student.asspx

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
using System.Data;

public partial class Search_Students : System.Web.UI.Page
{
    SqlCommand cmd;
    SqlConnection con;
    SqlDataAdapter ad;
    SqlDataReader dr;
    protected void Page_Load(object sender, EventArgs e)
    {
        con=new          SqlConnection(@"Data          Source=wINCTRL-
9H3IPGK\SQLEXPRESS;Initial Catalog=msdb;Integrated Security=True");
    }
    protected void Button1_Click(object sender, EventArgs e)//search
    {

        con.Open();
        cmd  =  new  SqlCommand("select  *  from  student_details_table
where rollno='"+TextBox1.Text+"'",con);
        dr = cmd.ExecuteReader();
        if (dr.Read())
        {
```

```
            TextBox2.Text = dr[1].ToString();//name
            TextBox3.Text = dr[2].ToString();//department
            TextBox4.Text = dr[3].ToString();//year
            TextBox5.Text = dr[4].ToString();//diplamo_course
            TextBox6.Text = dr[5].ToString();//session
            TextBox7.Text = dr[6].ToString();//fees
            TextBox8.Text = dr[7].ToString();//fees_remaining
            TextBox9.Text = dr[8].ToString();//e-mail
        }
        else
        {
            Response.Write("<script>alert('The Rollno is incorrect or
not found')</script>");
        }


    }
    protected void Button4_Click(object sender, EventArgs e)
    {
        con.Open();
        string s = Convert.ToString(TextBox1.Text);
        Response.Write("<script>alert('permanently delete the student
'+s)</script>");
        cmd = new SqlCommand("delete from student_details_table where
rollno='"+TextBox1.Text+"'",con);
        cmd.ExecuteNonQuery();
        con.Close();
    }
protected void  Button3_Click(object sender, EventArgs e)
{
    Response.Redirect("Home_page.aspx");
}
protected void  Button2_Click(object sender, EventArgs e)
{
    Response.Redirect("Student_details.aspx");
}
}
```

Alertstudent.aspx

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Net.Mail;
```

```
using System.Net;


public partial class alertstu : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        /*MailMessage             mailObj             =             new
MailMessage(TextBox1.Text,TextBox2.Text,TextBox3.Text,TextBox4.Text);

        SmtpClient SMTPServer = new SmtpClient("localhost");
        try
        {
            SMTPServer.Send(mailObj);
        }
        catch (Exception ex)
        {
            Label1.Text = ex.ToString();
        }
        string mail, msg, sub;

        sub=TextBox1.Text;
        msg=TextBox2.Text;*/

        MailMessage    objMail    =    new    MailMessage(TextBox1.Text,
TextBox2.Text, TextBox3.Text, TextBox4.Text);
        NetworkCredential            objNC            =            new
NetworkCredential("sowmyaselvam461@gmail.com", "30111998selva");
        SmtpClient objsmtp = new SmtpClient("smtp.gmail.com", 587); //
for hotmail
        objsmtp.EnableSsl = true;
        objsmtp.Credentials = objNC;
        objsmtp.Send(objMail);
        Response.Write("mail sent");

    }
}
```

Updatefees.aspx

```
using System;
```

```
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
using System.Data;

public partial class updateFees : System.Web.UI.Page
{
    SqlCommand cmd;
    SqlConnection con;
    SqlDataAdapter dr;
    protected void Page_Load(object sender, EventArgs e)
    {
        con     =     new     SqlConnection(@"Data     Source=wINCTRL-
9H3IPGK\SQLEXPRESS;Initial Catalog=msdb;Integrated Security=True");


    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        con.Open();
        cmd   =   new   SqlCommand("update   student_details_table   set
fees_paid='"+TextBox2.Text+"',fees_remaining='"+TextBox3.Text+"'  where
rollno='"+TextBox1.Text+"'",con);
        cmd.ExecuteNonQuery();
        con.Close();
        Page.ClientScript.RegisterStartupScript(this.GetType(),
"Scripts", "<script>alert('Fees updated successfully..')</script>");
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        Response.Redirect("fees_details.aspx");
    }
}
```

CHAPTER 10

10.1 BIBLOGRAPHY

The following books were referred during the analysis and execution phase of the project

1.Mircosoft .Net With c#-series

2. Asp.net 2.0 Professional –wrox publishers

3.Asp.net with C# 2005

10.2 REFERNCES

1.WWW.W3SCHOOLS.COM

2.WWW.GURU99.COM

3.WWW.TUTORIALSPOINTS.COM and etc