PROJECT REPORT ON

Leave Management System

SUBMITTED TO

RashtrasantTukdojiMaharaj Nagpur University, Nagpur

for partial fulfillment of the degree in

MASTER OF COMPUTER APPLICATION
PART-II, SEMESTER-IIEXAMINATION

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SUBMITTED BY

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UNDER THE GUIDANCE OF

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Academic Year (2011-12)

CERTIFICATE

Thisis to certify that the Project Report on ***"Leave Management System"****is a bonafide work and it is submitted to****RashtrasantTukdojiMaharajNagpur University, Nagpur,*** *by****Vicky Kanojiya****and****PratikMahorey****forpartial fulfillment of the degree in* ***Master of Computer Applications****,* ***Part II****,****SecondSemester*** *during the academic year 2011-2012 under the guidance of Prof .S.Uparkar.*

Signature of Guide **Signature of External**

Signature ofHOD

Prof. PreetiVoditel **Dr. V. S. Deshpande**

Head, Department of Computer Application Principal

ACKNOWLEDGEMENT

We would like to mention our sincere gratitude towards our principal, **Dr. V. S. Deshpande**and HOD**Prof. PreetiVoditel,**MCA Department, for giving us the opportunity to carry out our project.

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Name of Students

Vicky Kanojiya

Pratik Mahorey

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ABSTRACT

In the existing Leave Record Management System, every College/ Department follows manual procedure in which faculty enters information in a record book. At the end of each month/session, Administration Department calculates leave/s of every member which is a time taking process and there are chances of losing data or errors in the records.

This module is a single leave management system that is critical for HR tasks and keeps the record of vital information regarding working hours and leaves. It intelligently adapts to HR policy of the management and allows employees and their line managers to manage leaves and replacements (if required). In this module, Head of Department (HOD) will have permissions to look after data of every faculty member of their department.HOD can approve leave through this application and can view leave information of every individual.

This application can be used in a college to reduce processing work load. This project's main idea is to develop an onlinecentralized applicationconnected to database which will maintain faculty leaves, notices information and their replacements (if needed). Leave management application will reduce paperwork and maintain record in a more efficient & systematic way. This module will also help to calculate the number of leaves taken monthly/annually and help gather data with respect to number of hours' worked, thereby helping in calculating the work hours by the HR Department.

TITLE

Leave Management System

INTRODUCTION

In the existing paper work related to leave management, leaves are maintained using the attendance register for staff. The staff needs to submit their leaves manually to their respective authorities. This increases the paperwork & maintaining the records becomes tedious. Maintaining notices in the records also increases the paperwork.

The main objective of the proposed system is to decrease the paperwork and help in easier record maintenance by having a particular centralized Database System, where Leaves and Notices are maintained.The proposed system automates the existing system. It decreases the paperwork and enables easier record maintenance. It also reduces chances of Data loss.This module intelligently adapts to HR policy of the management &allows employees and their line managers to manage leaves and replacements forbetter scheduling of workload.The application basically containsthe given modules:

Module:

1) STAFF MODULE: It consist of two types of faculties
   a) Teaching
   b) Non-teaching

2) HOD MODULE: It consists of Head of the Department/ ManagerBody which takescritical decision related to HR.

3) ADMINISTRATION MODULE:It calculates leaves & maintains records.

OBJECTIVE

- To automate the existing leave management in educational institutes

- To decrease the paperwork and enable the process with efficient,reliable record maintenance by using centralized database, thereby reducing chances of data loss

- To provide for an automated leave management system that intelligently adapts to HR policy of the organization and allows employees and their line managers to manage leaves and replacementsforbetter scheduling of work load & processes.

IDENTIFICATION OF NEED

Leave ManagementSystem is very convenientto implement,easy to understandand also easy on implementation.The need of designingsuch Softwareis to provideHR& Administrationa betterway for scheduling&balancing work loadby maintaining leave details ofthe staff .It reduces the human efforts ofchecking thepapersfor leave requestmanually and maintaining it in folders and files.

2.2FEASIBILITYSTUDY

Feasibility studies aim to objectively and rationally uncover the strengths and weaknesses of the existing system or proposed venture. In its simplest term, the two criteria to judge feasibility are cost required and value to be attained. As such, a well-designed feasibility study should provide historical background of theproject.Generally, feasibility studies precede technical development andproject implementation. The assessment of feasibility study is based on the following factors:

1) Technical Feasibility
2) Economic Feasibility
3) Operational Feasibility

2.21TECHNICAL FEASIBILITY:

Generally,feasibilitystudiesprecede technical development and projectimplementation.The assessment is based on a system requirement in

terms of Input, Processes, Output, Fields, Programs, and Procedure .This can be quantified in terms of volumes of data, trends, frequency of updating, etc., in order to estimate whether the new system will perform adequately or not.

Technological feasibility is carried out to determine the capability, in terms of software, hardware, personnel and expertise, to handle the completion of the project. When writing a feasibility report the following should be taken to consideration:

- A brief description of the business
- The part of the business being examined
- The human and economic factor
- The possible solutions to the problems

2.2.2ECONOMICFEASIBILITY

Economic analysis is the most frequently used method for evaluating the effectiveness of a new system. More commonly known as cost/benefit analysis, the procedure is to determine the benefits and savings that are expected from a candidate system and compare them with costs. An entrepreneur must accurately weigh the cost versus benefits before taking an action.

2.2.3OPERATIONAL FEASIBILITY:

Operational feasibility is a measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development

The operational feasibility of the system can be checked as it solves the problems and reduces the complications occurring in the paper-pencil test.

CONCLUSION OF FEASIBILITY STUDY:

1) **Technical Feasibility:**

   Thesystem can be implemented using computer software& hardware.

2) **Economic Feasibility:**

   The System implementation is economical if implemented for large/medium organizationwhich can bear the cost of maintaining computer and server cost.

3) **Operational Feasibility:**

   The system efficiently operates & reduces manual computation and time of processing, reducing cost of paperworkand humanerrors.

SOFTWARE & HARDWARE SUPPORT

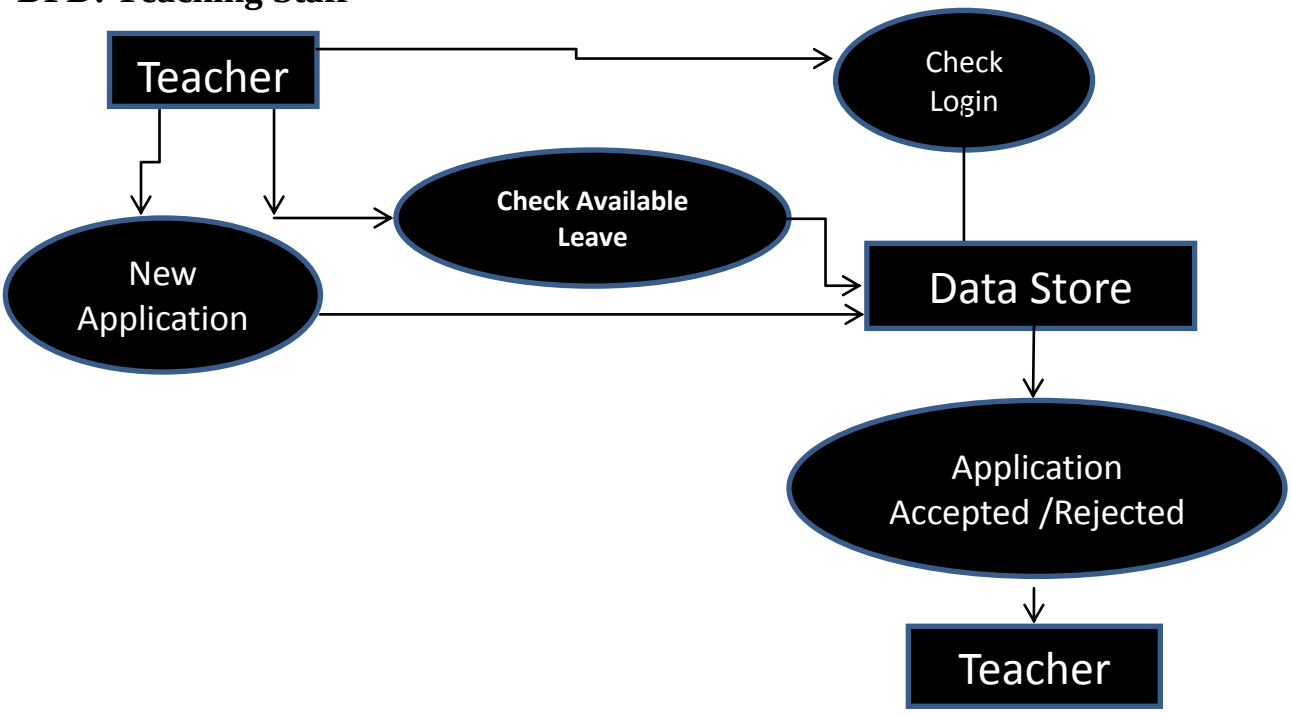
Software requirements

- Visual Studio .Net Platform
- Database: Sql Server2008
- Operating System Support FollowingWindows XP, Windows 7,Windows Vista,Linux

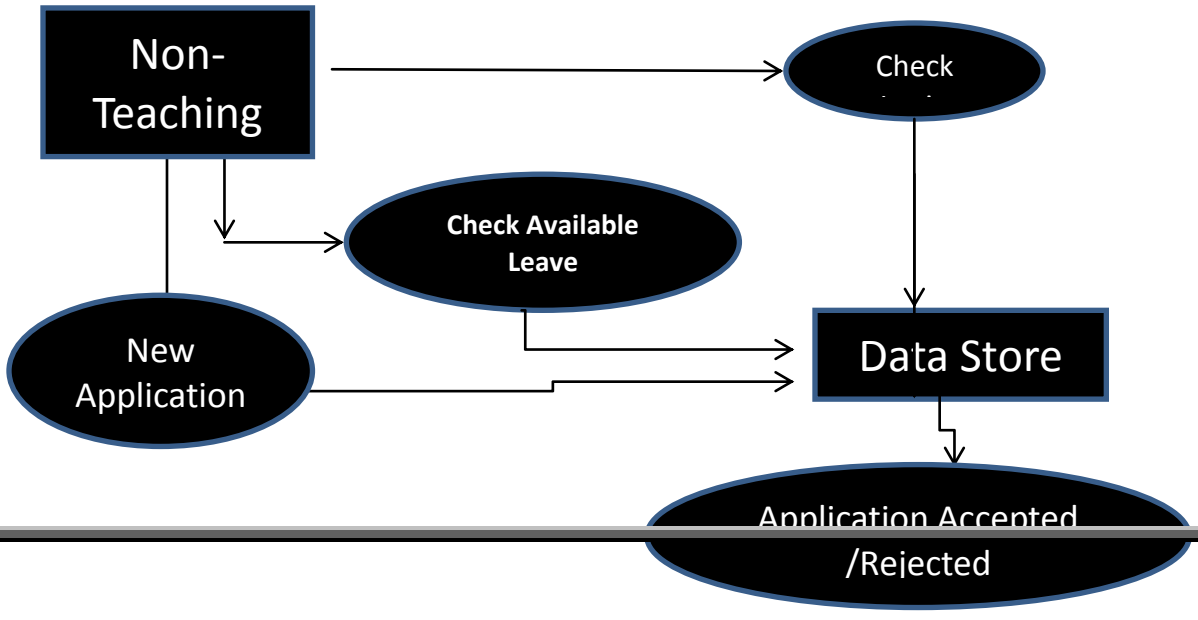
Hardware Requirements

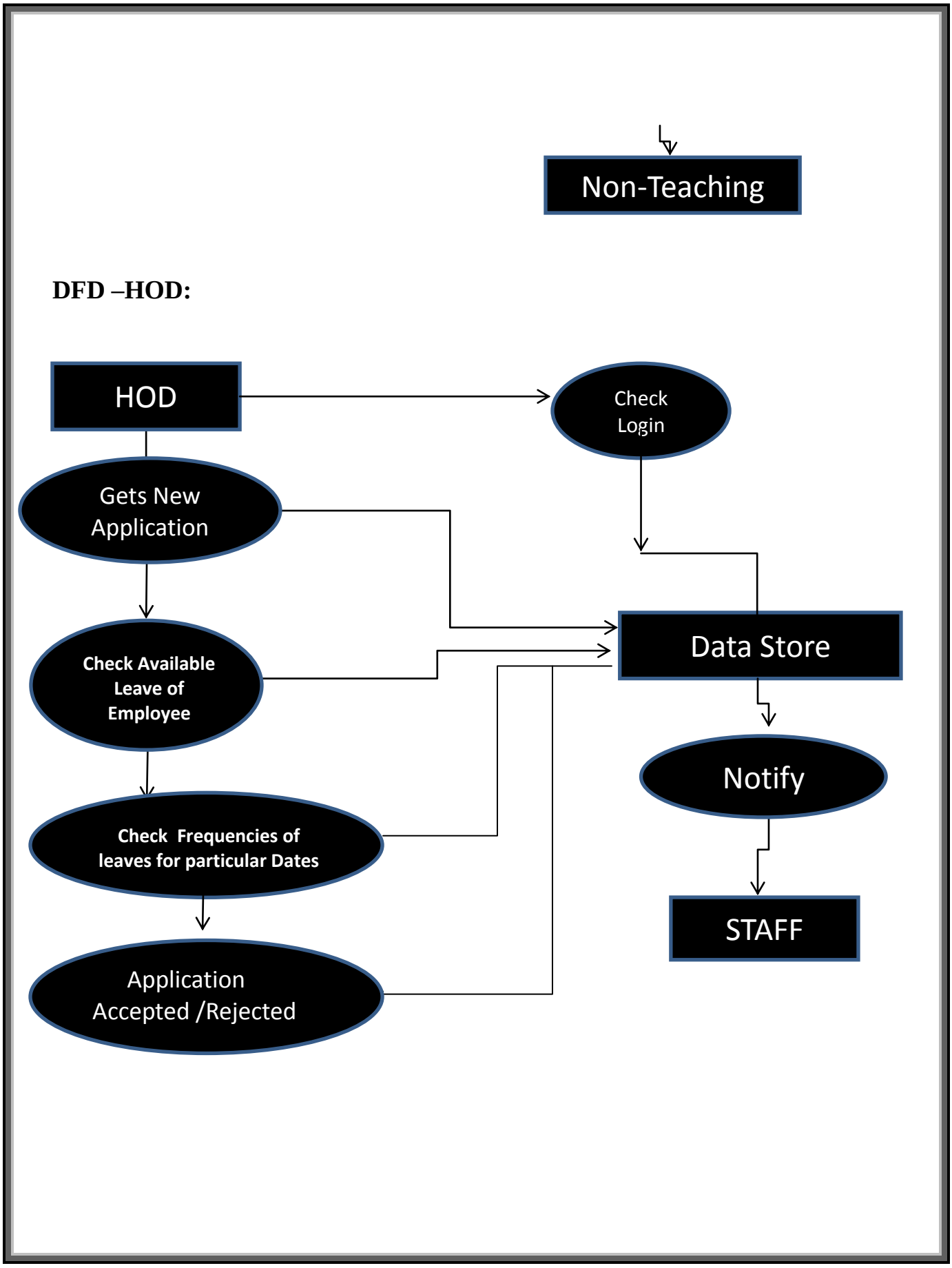
- Computer Network
- Main Server machine

DFD: Teaching Staff

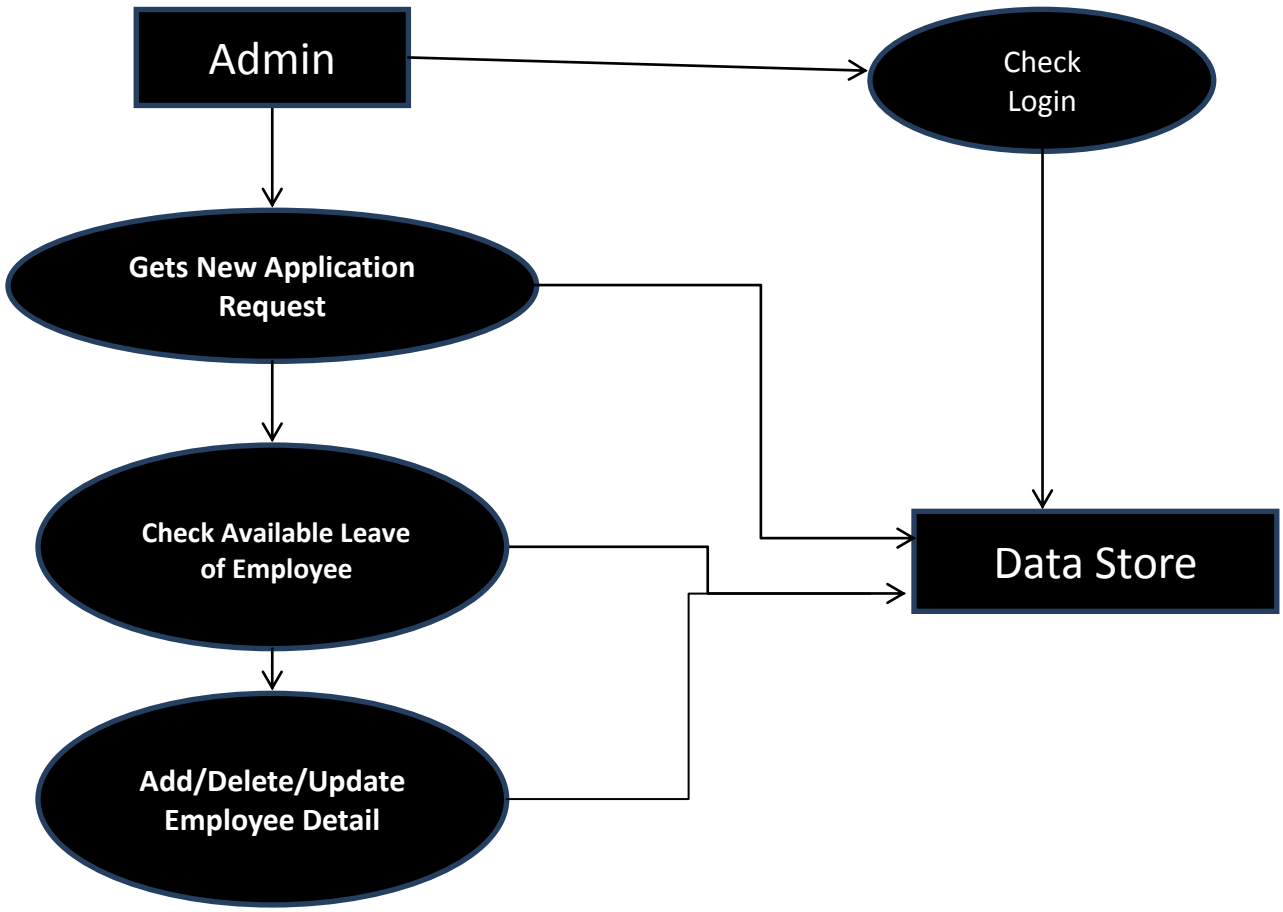


DFD:NON-TEACHING




Non-Teaching
DFD –HOD:
HOD
Check Login
Gets New Application
Check Available Leave of Employee
Data Store
Notify
Check Frequencies of leaves for particular Dates
STAFF
Application Accepted /Rejected

DFD-Admin:


Admin
Check Login
Gets New Application Request
Check Available Leave of Employee
Add/Delete/Update Employee Detail
Data Store

DatabaseTables:

1) EmpLog

Leavemaster: Quer...lexpress.leavesys) | EmpLog: Query(pra...express.leavesys) | applicationreq: Qu...lexpress.leavesys) | App.config

empid	password	staff	ename	eaddres	esal	Department
1	p	Teaching	PRATIK	civil lines	1000	MCA
10	q	Non-teaching	Shatu	GandhiNagar	12345	MCA
2	u	Non-teaching	VICKY	sadar	1200	ADMIN
27	qwe	teaching	isha	wadi	1234	MBA
3	v	Teaching	KALYANI	ramtek	1200	MBA
4	w	Non-teaching	ACHAL	sonegao	1700	MCA
47	sh	Teaching	sumedha	mumbai	12345	MBA
5	q	Non-teaching	MANMEET	jasvant tuli	1700	MBA
6	r	Teaching	GUPTA	heven	1700	MCA
7	s	HOD	NIKITA	khamla	1900	MCA
8	t	Teaching	SWATI	pratapnagar	1700	MBA
9	admin	admin	ADITI	sadar	1000	ADMIN
NULL	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*

2) Leavemaster

Leavemaster: Quer...lexpress.leavesys) | EmpLog: Query(pra...express.leavesys) | applicationreq: Qu...lexpress.leavesys) | App.config | nLeaveProgram.cs

empid	ename	staff	casual	earned	compensatory	halfpay	maternity
1	pratik	Teaching	9	3	15	20	90
2	vicky	Non-teaching	8	6	10	15	90
3	kalyani	Teaching	10	10	15	20	90
4	ACHAL	Non-teaching	8	6	10	15	90
5	MANMEET	Non-teaching	8	6	10	15	90
6	GUPTA	Teaching	10	10	15	20	90
27	isha	Teaching	10	10	15	20	90
47	sumedha	Teaching	10	10	15	20	90
8	SWATI	Teaching	10	10	15	20	90
10	Shatu	Non-teaching	8	6	10	15	90
NULL	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*

3) Applicationrequest

press.leavesys) | EmpLog: Query(pra...express.leavesys) | applicationreq: Qu...lexpress.leavesys) | App.config | nLeaveProgram.cs | nLeaveProgram.cs [Design] | Non-Teaching

typeofleave	noday	strdate	endate	reason	dayschedule	dates	natofwork	person	result	staff
earned	2	5/2/2012 12:00:...	5/4/2012 12:00:...	I am Not Well	NULL	NULL	NULL	NULL	accepted	Teaching
casual	4	5/14/2012 12:00...	5/18/2012 12:00...	I have function at house	NULL	NULL	NULL	NULL	pending	Teaching
compensatory	5	5/21/2012 12:00...	5/25/2012 12:00...	i Am left with too Many Leaves	NULL	NULL	NULL	NULL	pending	Teaching
halfpay	4	5/28/2012 12:00...	5/31/2012 12:00...	Imp Personal work	NULL	NULL	NULL	NULL	pending	Teaching
maternity	11	6/1/2012 12:00:...	6/11/2012 12:00...	Its just casual To take these Le...	NULL	NULL	NULL	NULL	pending	Teaching
casual	1	5/1/2012 12:00:...	5/2/2012 12:00:...	as per the casual ly	NULL	NULL	NULL	NULL	pending	Non-teach
earned	5	5/7/2012 12:00:...	5/11/2012 12:00...	My Earned Leave	NULL	NULL	NULL	NULL	pending	Non-teach
halfpay	5	5/21/2012 12:00...	5/25/2012 12:00...	Hafday Some work At home	NULL	NULL	NULL	NULL	pending	Non-teach
compensatory	2	5/4/2012 12:00:...	5/5/2012 12:00:...	too many leaves	NULL	NULL	NULL	NULL	pending	Teaching
halfpay	3	5/29/2012 12:00...	5/30/2012 12:00...	Vicky is ill so please	NULL	NULL	NULL	NULL	pending	Teaching
earned	2	5/30/2012 12:00...	5/31/2012 12:00...	please grant	NULL	NULL	NULL	NULL	pending	Teaching
halfpay	2	5/14/2012 12:00...	5/15/2012 12:00...	this is myreason	NULL	NULL	NULL	NULL	pending	Teaching
compensatory	3	1/5/2012 12:00:...	1/7/2012 12:00:...	NonTeaching request	NULL	NULL	NULL	NULL	pending	Non-teach
earned	2	5/28/2012 12:00...	5/29/2012 12:00...	this is reason	NULL	NULL	NULL	NULL	pending	Teaching
Earned Leave	2	1/1/2012 12:00:...	1/2/2012 12:00:...	ooooooooo	NULL	NULL	NULL	NULL	accepted	Teaching
earned	3	7/24/2012 12:00...	7/26/2012 12:00...		NULL	NULL	NULL	NULL	pending	Teaching
earned	4	7/24/2012 12:00...	7/27/2012 12:00...	i am ill		1/1/190...			pending	Teaching
compensatory	2	7/26/2012 12:00...	7/27/2012 12:00...	I am On Leave. Or it Will Lapse		1/1/190...			pending	Teaching
casual	1	5/23/2012 12:00...	5/23/2012 12:00...			1/1/190...			accepted	Teaching
casual	2	7/23/2012 12:00...	7/24/2012 12:00...	i am on leave		1/1/190...			pending	Non-teach

BRIEF DESCRIPTION OF LEAVE MANAGEMENT SYSTEM

The Leave Management system basically consist of four modules

- Teaching
- Non-Teaching
- HOD
- ADMIN

Step1:

Teaching/ Non-teachingModule:The staffmember logs into his interface windowwhere he can check:

a)Personal leavedetails

b) Status of leave application

c) Place new requests for leave

Step2:

HOD logs into his interface windowto

a) Check new application request
b) Check employee leave details
c) Check persons on leave on particular given date/s
d) Accepts/rejects leave application

Step3:

The Admin is responsible for any help required for the functioning of this software. He will be single point of contact for all leave related information for all employee of the organization. He has no authority of accepting or rejecting the application request.

a) Responsible for addition of new employee in the system
b) Responsible for maintaining leaverecord
c) Responsible forcalculationof work hours andproviding leave information to theFinanceDepartment for salary calculation

Advantages of Leave Management System:

- Eliminates the use of paper leave application forms

- Is cost efficient
- Provides GUI and Digitalization
- Easy to maintain in Centralized Database
- Leave applications can be submitted via network
- Leave application can be approved easily and notified to respective staff
- Both the leave applicant as well as the approver can view the balance leave and past leave applications
- Calculate the numberof leaves taken on monthly/yearly basis

SYSTEM IMPLEMENTATION

Form1.cs / Login

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace Leavelogin
{    publicpartialclassForm1 : Form
    {   DAl.cs.DAL dal = new DAl.cs.DAL();
string Message = string.Empty;
publicstaticstring loginid = string.Empty;
publicstaticstring empname = string.Empty;
publicstaticstring estaff = string.Empty;
public Form1()
        { InitializeComponent();
```

```
        }
privatevoid button2_Click(object sender, EventArgs e)
        {   Environment.Exit(0);
        }
privatevoid submit_Click(object sender, EventArgs e)
        {
string query = "select * from EmpLog where empid='" + txtid.Text + "' and
ename='" + txtename.Text + "' and password='" + txtpass.Text + "' AND
staff='" + cmbtype.Text + "'";
SqlDataReader reader = dal.GetReader(query, ref Message);
if (reader.Read())
            {   loginid = txtid.Text;
                empname = txtename.Text;
                estaff = cmbtype.Text;
this.Visible = false;
if (cmbtype.Text == "Teaching")
                {       teacher f2 = newteacher();
                        f2.Show();
                }
elseif (cmbtype.Text == "Non-teaching")// Check If User Non-Teaching
                {   Non_Teaching f3 = newNon_Teaching();
                    f3.Show();
                }
elseif(cmbtype.Text=="HOD")
                {   Hod f4 = newHod();// check If Hod
                    f4.Show();
                }
else {   Admin f5 = newAdmin();
                    f5.Show();}
            }
else
            {
MessageBox.Show("Invalid Employee Id / User Name / Password or UserType");
            }
        }
      }}
```

Teacher.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace Leavelogin
{    publicpartialclassteacher : Form
    {         public teacher( )
        {    InitializeComponent();
        }
privatevoid leaveProgramToolStripMenuItem_Click(object sender, EventArgs e)
        {this.Visible = false;
tLeaveProgram t1 = newtLeaveProgram();
            t1.Show();
        }
```

```
privatevoid leaveDetailsToolStripMenuItem_Click(object sender, EventArgs e)
        {    this.Visible = false;
tLeaveDetails t2 = newtLeaveDetails();
            t2.Show();
        }
privatevoid requestFormToolStripMenuItem_Click(object sender, EventArgs e)
        {   this.Visible = false;
tapplicatonrequest t3 = newtapplicatonrequest();
            t3.Show();
        }
privatevoid exitToolStripMenuItem_Click(object sender, EventArgs e)
        {   Environment.Exit(1);
        }
privatevoid teacher_Load(object sender, EventArgs e)
    txtid.Text = Form1.loginid;
            txtename.Text = Form1.empname;
            txtstaff.Text = Form1.estaff;
string enm = txtid.Text;
string connectionstring = "Data Source=PRATIK_PC\\SQLEXPRESS;Initial
Catalog=leavesys;Integrated Security=True;Pooling=False";
SqlConnection con = newSqlConnection(connectionstring);
            con.Open();
String query = "Select empid,typeofleave,noday,strdate,endate,result from
applicationreq where empid="+enm;
SqlDataAdapter da = newSqlDataAdapter(query, connectionstring);
DataSet ds = newDataSet();
            da.Fill(ds, "applicationreq");
            dataGridView1.DataSource = ds;
            dataGridView1.DataMember = "applicationreq";
            con.Close();
        } }}
```

tLeaveDetail.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace Leavelogin
{    publicpartialclasstLeaveDetails : Form
    {    public tLeaveDetails()
        {
            InitializeComponent();
        }
privatevoid leaveProgramToolStripMenuItem_Click(object sender, EventArgs e)
        {
this.Visible = false;
tLeaveProgram t2 = newtLeaveProgram();
            t2.Show();
        }
privatevoid homeToolStripMenuItem_Click(object sender, EventArgs e)
```

```
        {   this.Visible = false;
teacher t = newteacher();
            t.Show();
        }
privatevoid requestFormToolStripMenuItem_Click(object sender, EventArgs e)
        {   this.Visible = false;
tapplicatonrequest t3 = newtapplicatonrequest();
            t3.Show();
        }
privatevoid tLeaveDetails_Load(object sender, EventArgs e)
        {   txtid.Text = Form1.loginid;
            txtename.Text = Form1.empname;
            txtstaff.Text = Form1.estaff;
string connectionstring = "Data Source=PRATIK_PC\\SQLEXPRESS;Initial
Catalog=leavesys;Integrated Security=True;Pooling=False";
SqlConnection con = newSqlConnection(connectionstring);
            con.Open();
String query = "Select * from Leavemaster where empid= '" + txtid.Text +
"'";
SqlDataAdapter da = newSqlDataAdapter(query, connectionstring);
DataSet ds = newDataSet();
            da.Fill(ds, "Leavemaster");
            dataGridView1.DataSource = ds;
            dataGridView1.DataMember = "Leavemaster";
            con.Close();
        }
privatevoid exitToolStripMenuItem_Click(object sender, EventArgs e)
        {   Environment.Exit(0);
        }
    }}
```

Tapplicationrequest.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;
using System.Threading;
namespace Leavelogin
{    publicpartialclasstapplicatonrequest : Form
    {   DAl.cs.DAL dal = new DAl.cs.DAL();
string Message = string.Empty;
public tapplicatonrequest()
        {  InitializeComponent();
        }
privatevoid leaveProgramToolStripMenuItem_Click(object sender, EventArgs e)
        {   this.Visible = false;
tLeaveProgram t1 = newtLeaveProgram();
            t1.Show();
        }
privatevoid leaveDetailsToolStripMenuItem_Click(object sender, EventArgs e)
        {   this.Visible = false;
```

```
tLeaveDetails t2 = newtLeaveDetails();
            t2.Show();
        }
privatevoid homeToolStripMenuItem_Click(object sender, EventArgs e)
        {   this.Visible = false;
teacher t = newteacher();
            t.Show();
        }
privatevoid exitToolStripMenuItem_Click(object sender, EventArgs e)
        {    Environment.Exit(0);
        }
privatevoid tapplicatonrequest_Load(object sender, EventArgs e)
        {   txtid.Text = Form1.loginid;
            txtename.Text = Form1.empname;
            txtstaff.Text = Form1.estaff;
        }
privatevoid btnsubmit_Click(object sender, EventArgs e)
        {       if (CheckLeaves())
return;
String abc = "'pending'";string query = "insert into
applicationreq(empid,ename,typeofleave,noday,strdate,endate,reason,dayschedu
le,dates,natofwork,person,staff,result)values('" + Form1.loginid + "','" +
txtename.Text + "','" + cbolvtype.SelectedItem + "','" + txtnoday.Text +
"','" + txtstrdate.Text + "','" + txtendate.Text +  "','" + richreason.Text
+"','"+richdayschedul.Text+"','"+richdates.Text+"','"+richnatofwork.Text+"',
'"+richperson.Text+"','" + txtstaff.Text + "'," + abc + " )";
       dal.ExecuteQuery(query, ref Message);
if (string.IsNullOrEmpty(Message))
MessageBox.Show("Aplication Request send ");
else
MessageBox.Show(Message);
//connection.Close();
this.Visible = false;
teacher t = newteacher();
            t.Show();
        }
privatevoid button1_Click(object sender, EventArgs e)
        {            Environment.Exit(0);
        }
privatevoid btnclear_Click(object sender, EventArgs e)
        {   txtstrdate.Text = "";  txtendate.Text = "";
            txtnoday.Text = "";    richdates.Text = "";
            richdayschedul.Text = ""; richnatofwork.Text = "";
            richperson.Text = "";     richreason.Text = "";
        }
privatebool CheckLeaves()
        {  bool returnflag = false;
if (CommonFunctions.cInt(lblBalLeaves.Text)
<CommonFunctions.cInt(txtnoday.Text))
{   MessageBox.Show("Available Leaves are " + lblBalLeaves.Text + " Only");
                returnflag = true ;
  }            return returnflag;
        }
privatevoid cbolvtype_SelectedIndexChanged(object sender, EventArgs e)     {
object obj = dal.ExecuteSalar("select " + cbolvtype.Text + " from
leavemaster where empid=" + txtid.Text, ref Message);
 lblBalLeaves.Text = CommonFunctions.cInt(obj.ToString()).ToString();
```

```
        }
    }}
```

Hod.cs

```
using System;using System.Collections.Generic;
using System.ComponentModel;using System.Data;
using System.Drawing;using System.Linq;
using System.Text;using System.Windows.Forms;
using System.Data.SqlClient;
namespace Leavelogin
{    publicpartialclassHod : Form
    {   publicstaticstring loginid = string.Empty;
publicstaticstring empname = string.Empty;
publicstaticstring estaff = string.Empty;
publicstaticstring eLeavetype = string.Empty;
publicstaticstring enody = string.Empty;
publicstaticstring estartd = string.Empty;
publicstaticstring eendate = string.Empty;
publicstaticstring eapid = string.Empty;
public Hod()
        {             InitializeComponent();
        }
privatevoid Hod_Load(object sender, EventArgs e)
{ string connectionstring = "Data Source=PRATIK_PC\\SQLEXPRESS;Initial
Catalog=leavesys;Integrated Security=True;Pooling=False";
SqlConnection con = newSqlConnection(connectionstring);
```

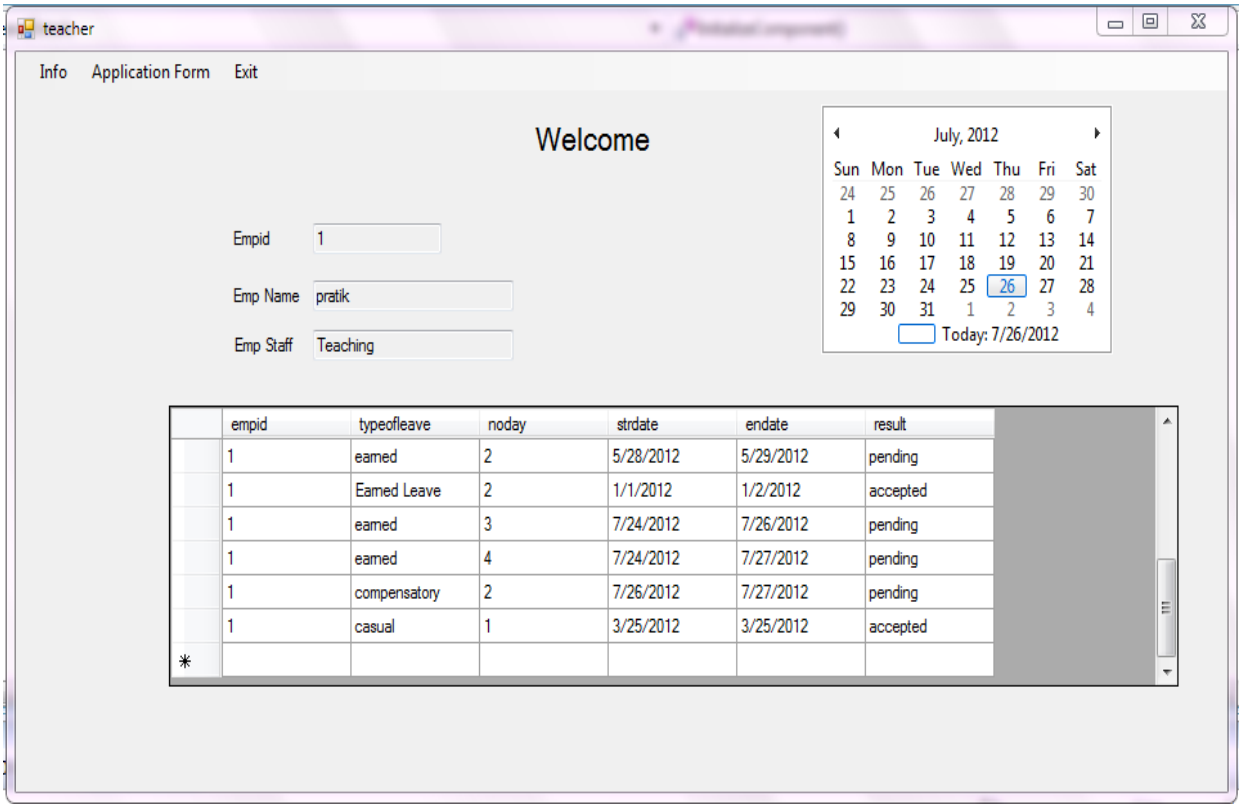
```
con.Open();String query = "Select
empid,ename,typeofleave,staff,noday,strdate,endate,result,apid from
applicationreq where result='pending' ";
SqlDataAdapter da = newSqlDataAdapter(query, connectionstring);
DataSet ds = newDataSet(); da.Fill(ds, "applicationreq");
dataGridView1.DataSource = ds;dataGridView1.DataMember = "applicationreq";
con.Close();
    }
privatevoid exitToolStripMenuItem_Click(object sender, EventArgs e)
   {            Environment.Exit(0);    }
privatevoid leaveDetailsToolStripMenuItem_Click(object sender, EventArgs e)
  {         LeaveDetail l = newLeaveDetail();
            l.Show();  }
privatevoid dataGridView1_MouseDoubleClick(object sender, MouseEventArgs e)
  {  string id; id= dataGridView1.CurrentRow.Cells[0].Value.ToString();
loginid = id;
            empname = dataGridView1.CurrentRow.Cells[1].Value.ToString();
            eLeavetype=dataGridView1.CurrentRow.Cells[2].Value.ToString();
            estaff= dataGridView1.CurrentRow.Cells[3].Value.ToString();
            enody = dataGridView1.CurrentRow.Cells[4].Value.ToString();
            estartd = dataGridView1.CurrentRow.Cells[5].Value.ToString();
            eendate = dataGridView1.CurrentRow.Cells[6].Value.ToString();
            eapid =
dataGridView1.CurrentRow.Cells[8].Value.ToString();Hodapplicationform h3 =
newHodapplicationform();  h3.Show();}
privatevoid btnexit_Click(object sender, EventArgs e)
        {Environment.Exit(0);
        }privatevoid checkAvailabilityToolStripMenuItem_Click(object sender,
EventArgs e)
        {   Person h = newPerson();
            h.Show();
    }}   }
```

Admin.cs

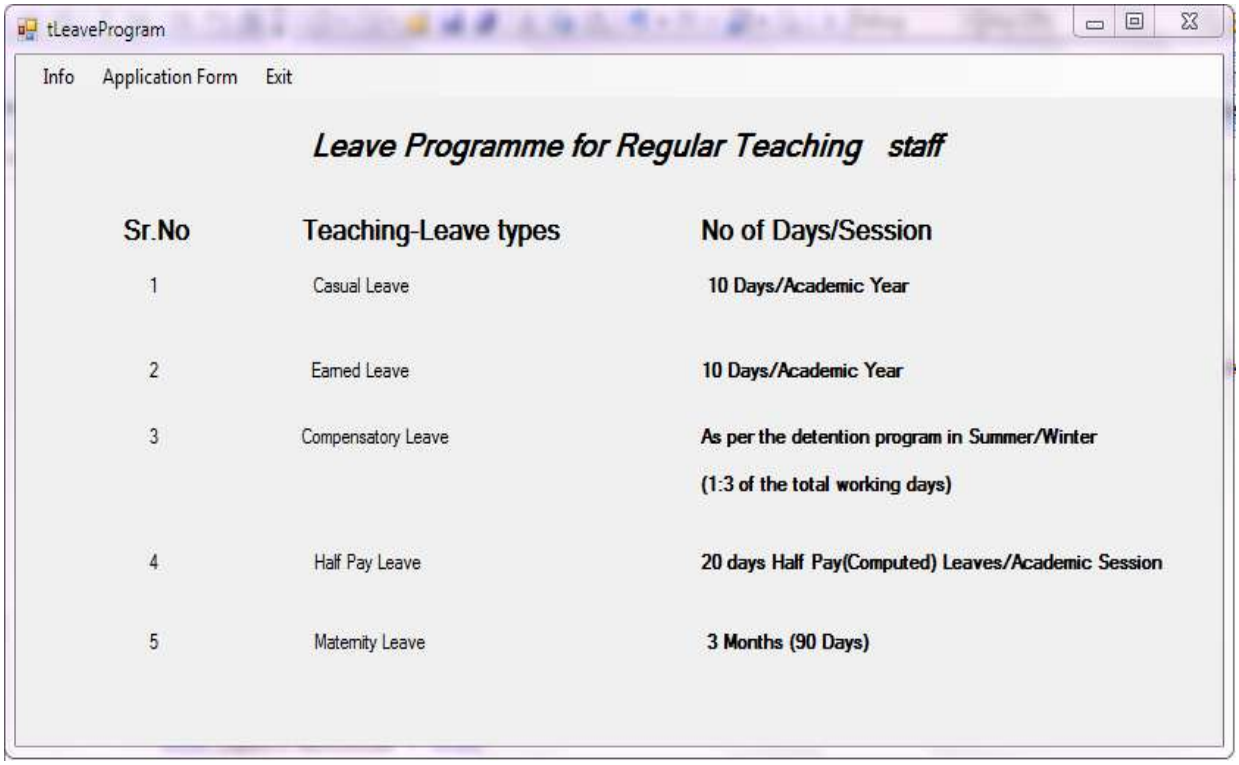
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace Leavelogin
{    publicpartialclassAdmin : Form
    {   publicstaticstring loginid = string.Empty;
publicstaticstring empname = string.Empty;
publicstaticstring estaff = string.Empty;
publicstaticstring eLeavetype = string.Empty;
publicstaticstring enody = string.Empty;
publicstaticstring estartd = string.Empty;
publicstaticstring eapid = string.Empty;
public Admin()
        {            InitializeComponent();
        }
privatevoid Admin_Load(object sender, EventArgs e)
```

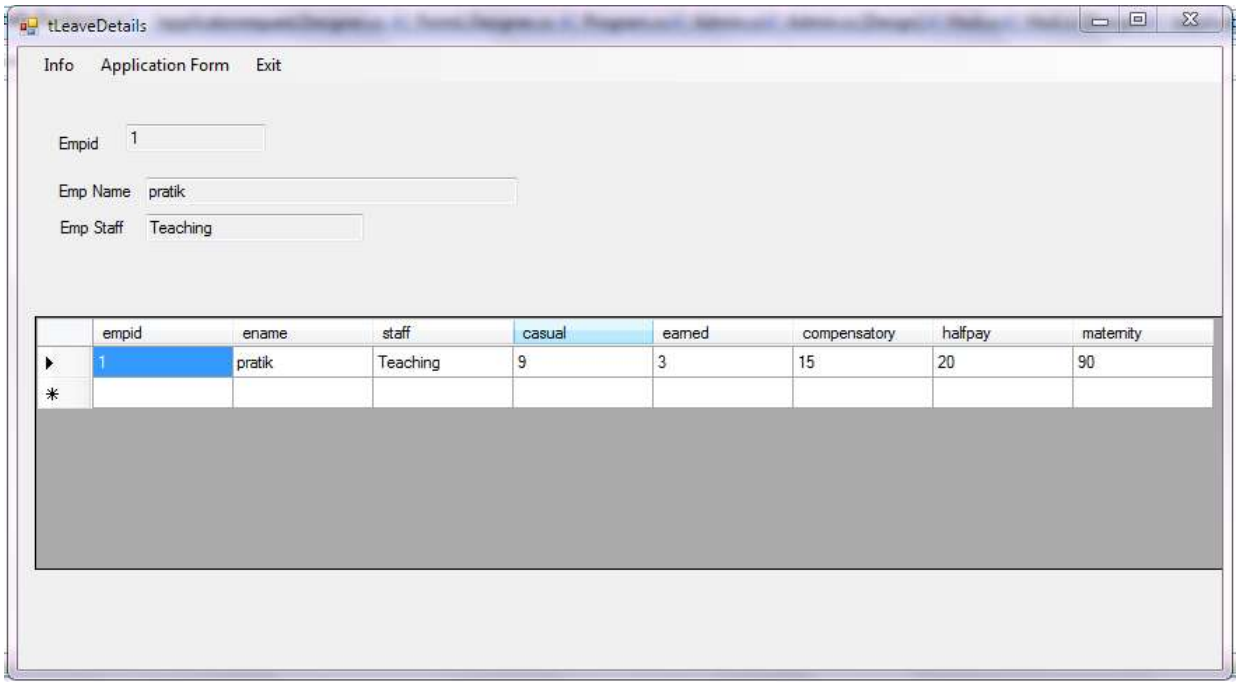
```
        {
string connectionstring = "Data Source=PRATIK_PC\\SQLEXPRESS;Initial
Catalog=leavesys;Integrated Security=True;Pooling=False";
SqlConnection con = newSqlConnection(connectionstring);
con.Open();String query = "Select
empid,ename,typeofleave,staff,noday,strdate,endate,result,apid from
applicationreq where result='accepted'";
SqlDataAdapter da = newSqlDataAdapter(query, connectionstring);
DataSet ds = newDataSet();
            da.Fill(ds, "applicationreq");
            dataGridView1.DataSource = ds;
            dataGridView1.DataMember = "applicationreq";
            con.Close();
        }
privatevoid dataGridView1_CellDoubleClick(object sender,
DataGridViewCellEventArgs e)
        {
string id;
            id = dataGridView1.CurrentRow.Cells[0].Value.ToString();
            loginid = id;
            empname = dataGridView1.CurrentRow.Cells[1].Value.ToString();
            eLeavetype = dataGridView1.CurrentRow.Cells[2].Value.ToString();
            estaff = dataGridView1.CurrentRow.Cells[3].Value.ToString();
            enody = dataGridView1.CurrentRow.Cells[4].Value.ToString();
            estartd = dataGridView1.CurrentRow.Cells[5].Value.ToString();
            eapid = dataGridView1.CurrentRow.Cells[8].Value.ToString();
         }
privatevoid addNewToolStripMenuItem_Click(object sender, EventArgs e)
        {   this.Visible = false;
Admin2 ad2 = newAdmin2();
            ad2.Show();
        }

privatevoid leaveDetailsToolStripMenuItem_Click(object sender, EventArgs e)
        {
LeaveDetail l = newLeaveDetail();
            l.Show();
        }

privatevoid teachingToolStripMenuItem_Click(object sender, EventArgs e)
        {
tLeaveDetails t1 = newtLeaveDetails();
            t1.Show();
        }
privatevoid nonTeachingToolStripMenuItem_Click(object sender, EventArgs e)
        {
nLeaveProgram t2 = newnLeaveProgram();
            t2.Show();
        }
privatevoid checkAvailabilityToolStripMenuItem_Click(object sender,
EventArgs e)
        {
Person pj = newPerson();
            pj.Show();
        }
    }
}
```

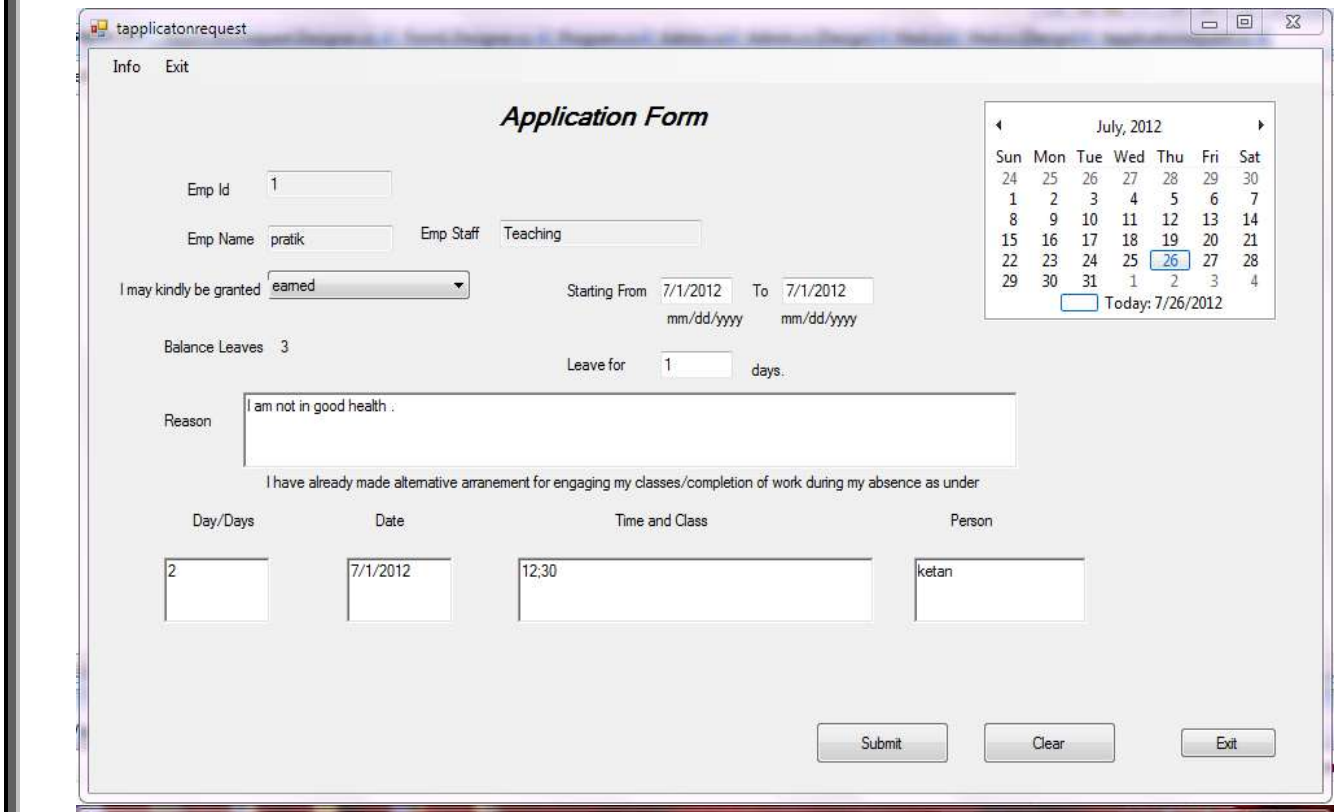
SCREEN SHOTS

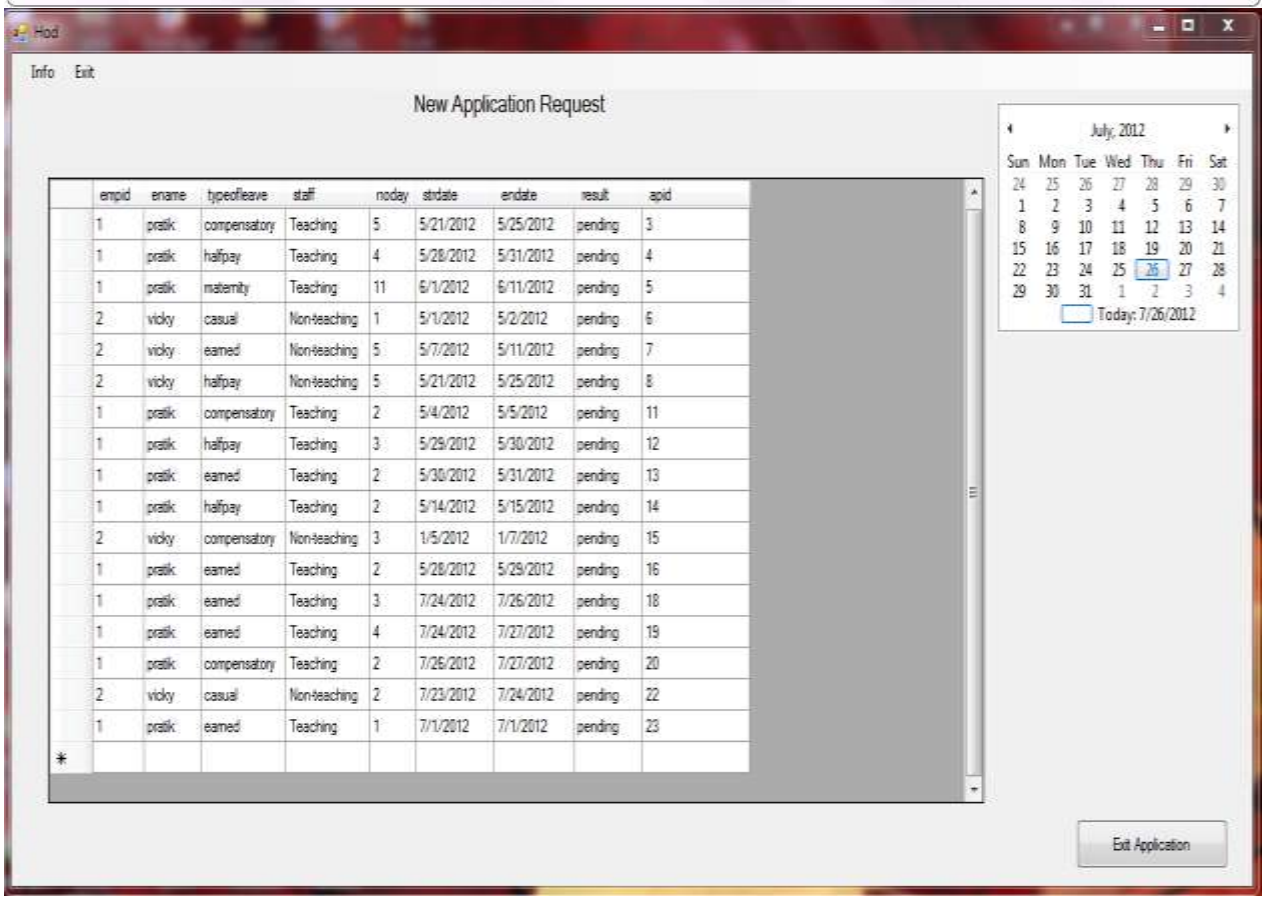


empid	typeofleave	noday	strdate	endate	result
1	earned	2	5/28/2012	5/29/2012	pending
1	Earned Leave	2	1/1/2012	1/2/2012	accepted
1	earned	3	7/24/2012	7/26/2012	pending
1	earned	4	7/24/2012	7/27/2012	pending
1	compensatory	2	7/26/2012	7/27/2012	pending
1	casual	1	3/25/2012	3/25/2012	accepted
*					

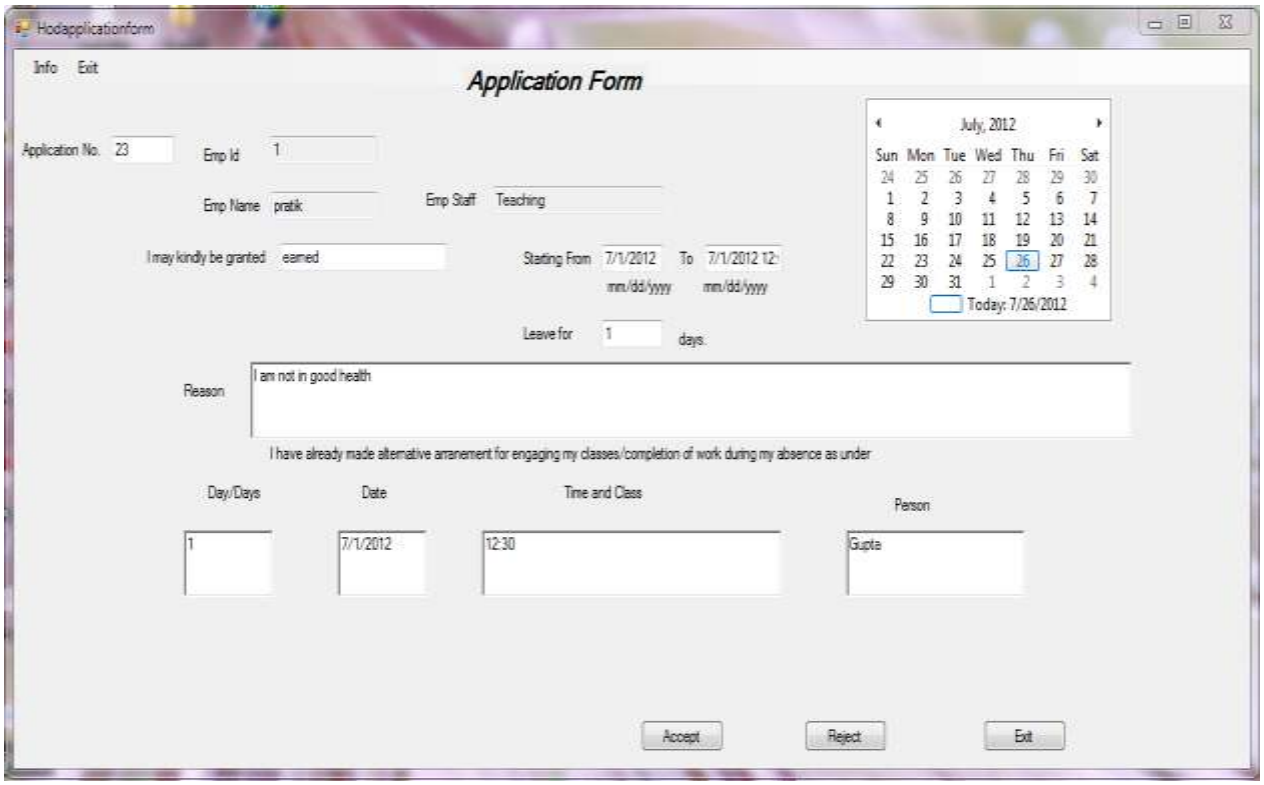

tLeaveProgram
Info
Application Form
Exit
Leave Programme for Regular Teaching staff
Sr.No
Teaching-Leave types
No of Days/Session
1
Casual Leave
10 Days/Academic Year
2
Earned Leave
10 Days/Academic Year
3
Compensatory Leave
As per the detention program in Summer/Winter
(1:3 of the total working days)
4
Half Pay Leave
20 days Half Pay(Computed) Leaves/Academic Session
5
Maternity Leave
3 Months (90 Days)

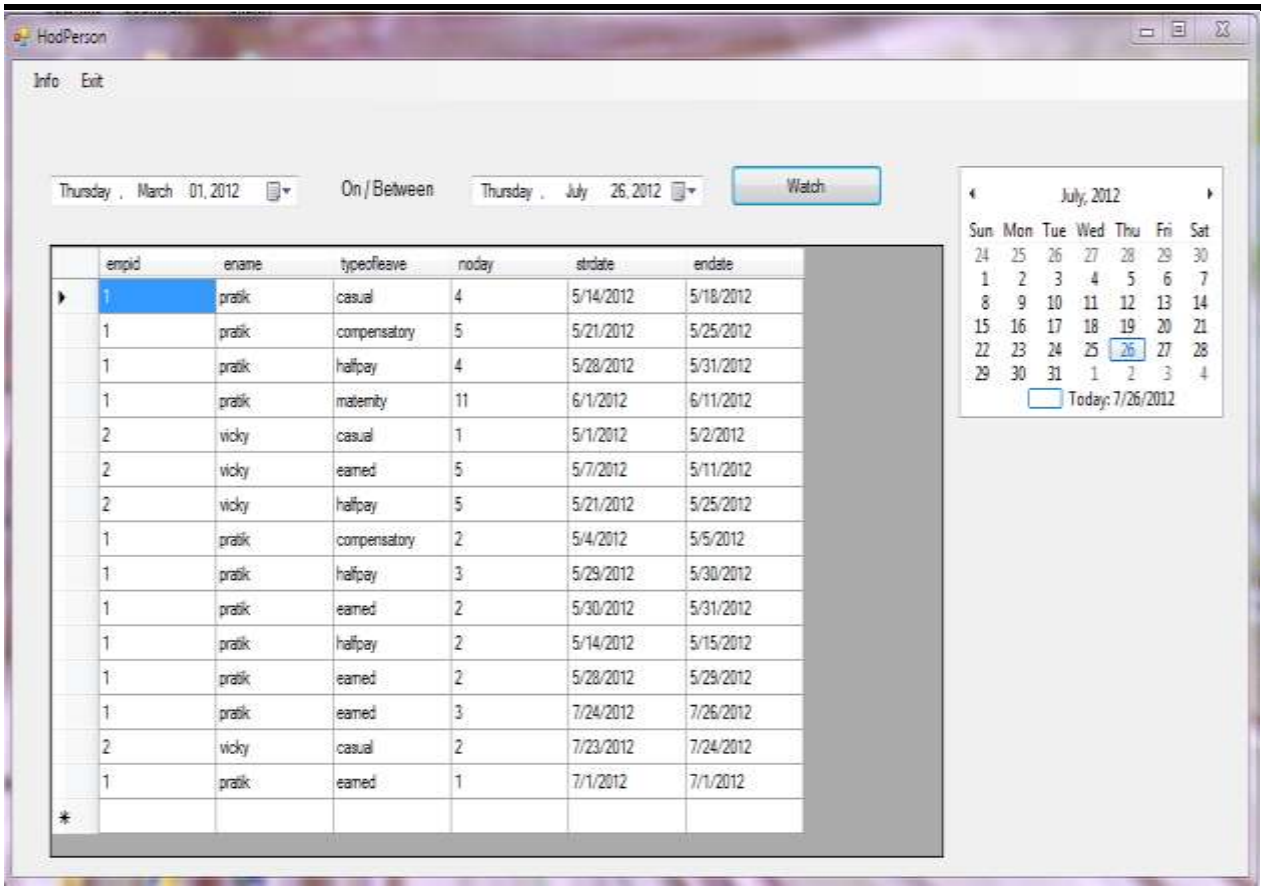

tLeaveDetails
Info
Application Form
Exit
Empid
1
Emp Name
pratik
Emp Staff
Teaching
empid
ename
staff
casual
earned
compensatory
halfpay
maternity
1
pratik
Teaching
9
3
15
20
90



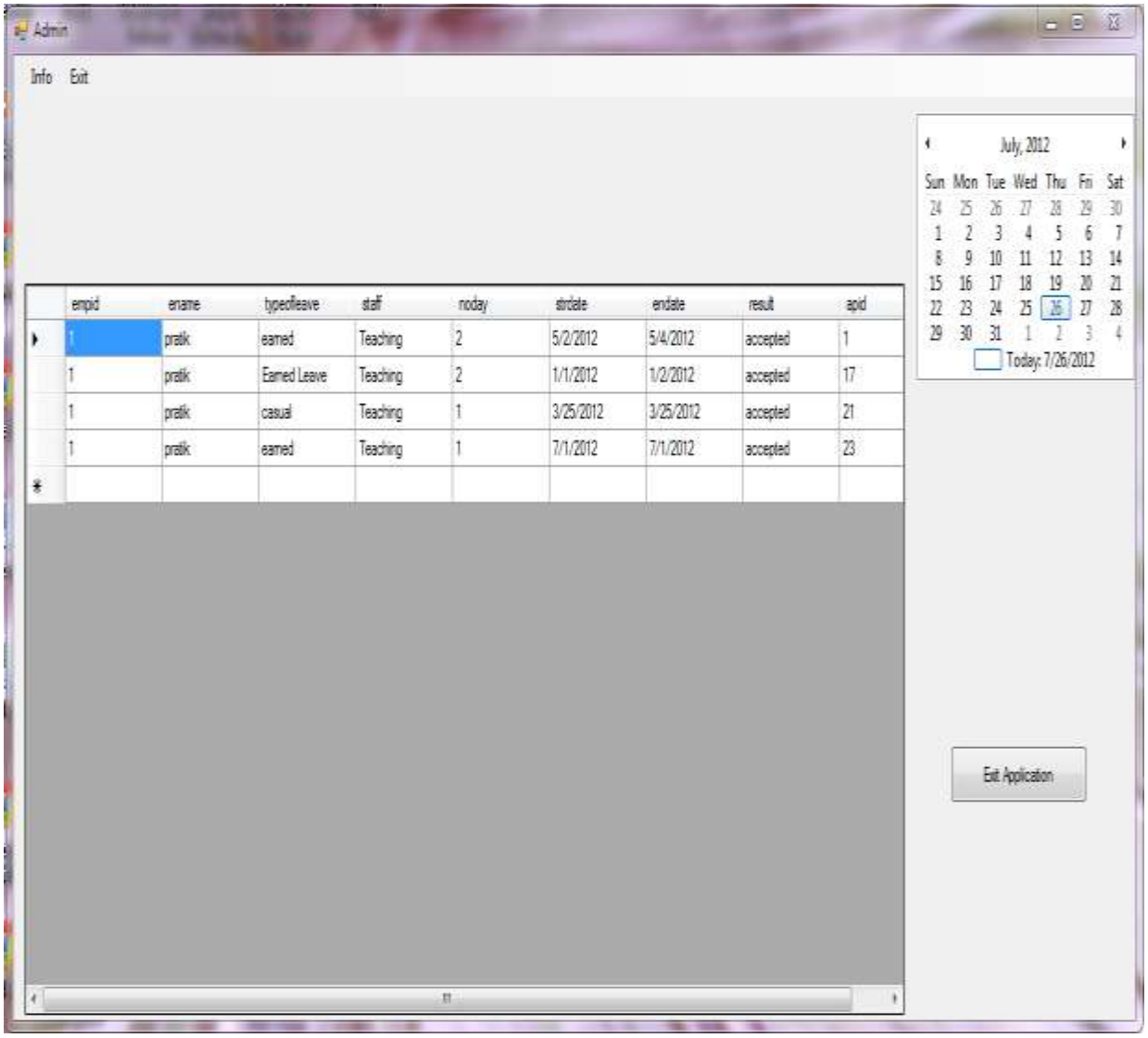


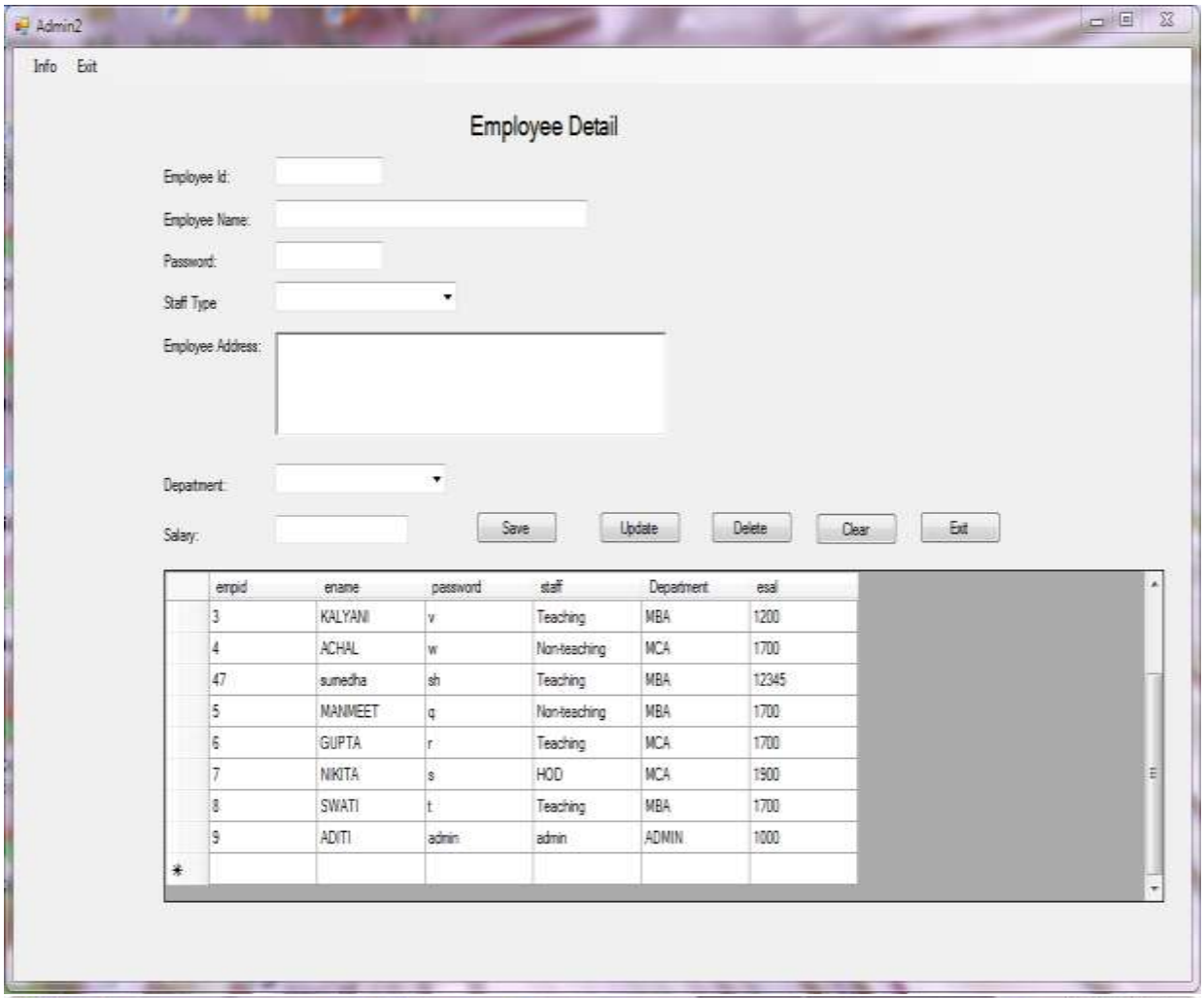
empid	ename	typeofleave	staff	noday	strdate	endate	result	apid
1	pratik	compensatory	Teaching	5	5/21/2012	5/25/2012	pending	3
1	pratik	halfpay	Teaching	4	5/28/2012	5/31/2012	pending	4
1	pratik	maternity	Teaching	11	6/1/2012	6/11/2012	pending	5
2	vicky	casual	Non-teaching	1	5/1/2012	5/2/2012	pending	6
2	vicky	earned	Non-teaching	5	5/7/2012	5/11/2012	pending	7
2	vicky	halfpay	Non-teaching	5	5/21/2012	5/25/2012	pending	8
1	pratik	compensatory	Teaching	2	5/4/2012	5/5/2012	pending	11
1	pratik	halfpay	Teaching	3	5/29/2012	5/30/2012	pending	12
1	pratik	earned	Teaching	2	5/30/2012	5/31/2012	pending	13
1	pratik	halfpay	Teaching	2	5/14/2012	5/15/2012	pending	14
2	vicky	compensatory	Non-teaching	3	1/5/2012	1/7/2012	pending	15
1	pratik	earned	Teaching	2	5/28/2012	5/29/2012	pending	16
1	pratik	earned	Teaching	3	7/24/2012	7/26/2012	pending	18
1	pratik	earned	Teaching	4	7/24/2012	7/27/2012	pending	19
1	pratik	compensatory	Teaching	2	7/26/2012	7/27/2012	pending	20
2	vicky	casual	Non-teaching	2	7/23/2012	7/24/2012	pending	22
1	pratik	earned	Teaching	1	7/1/2012	7/1/2012	pending	23

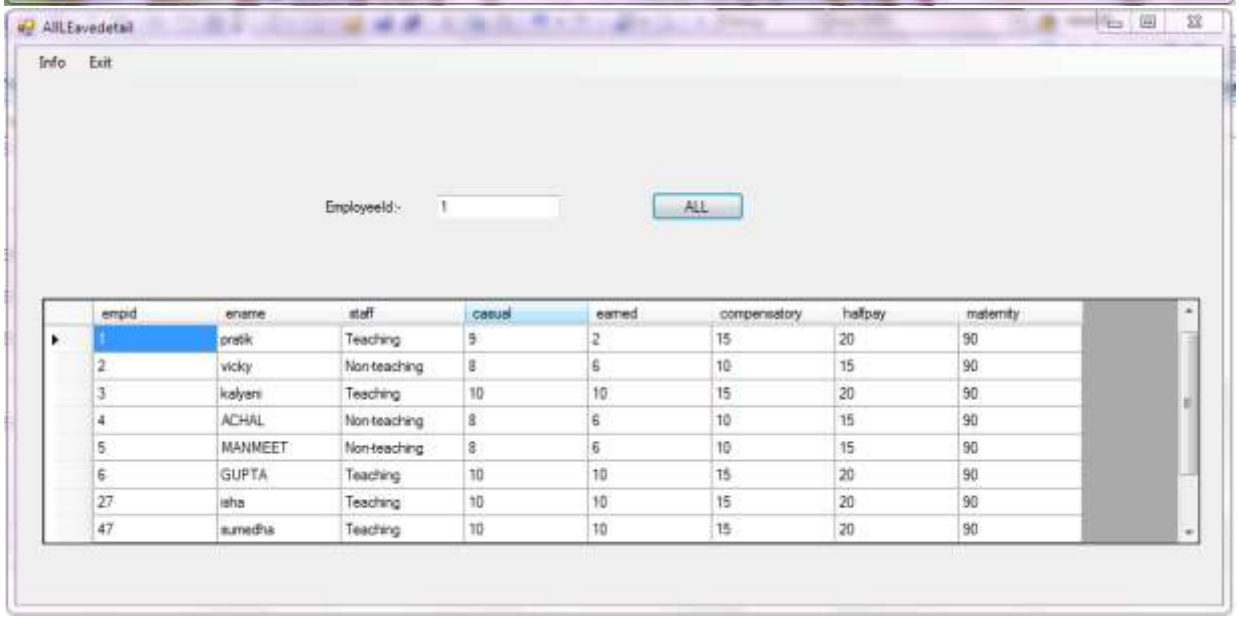




empid	ename	typeofleave	noday	strdate	endate
1	pratik	casual	4	5/14/2012	5/18/2012
1	pratik	compensatory	5	5/21/2012	5/25/2012
1	pratik	halfpay	4	5/28/2012	5/31/2012
1	pratik	maternity	11	6/1/2012	6/11/2012
2	vicky	casual	1	5/1/2012	5/2/2012
2	vicky	earned	5	5/7/2012	5/11/2012
2	vicky	halfpay	5	5/21/2012	5/25/2012
1	pratik	compensatory	2	5/4/2012	5/5/2012
1	pratik	halfpay	3	5/29/2012	5/30/2012
1	pratik	earned	2	5/30/2012	5/31/2012
1	pratik	halfpay	2	5/14/2012	5/15/2012
1	pratik	earned	2	5/28/2012	5/29/2012
1	pratik	earned	3	7/24/2012	7/26/2012
2	vicky	casual	2	7/23/2012	7/24/2012
1	pratik	earned	1	7/1/2012	7/1/2012
*					


Admin
Info
Exit
July, 2012
Sun Mon Tue Wed Thu Fri Sat
24 25 26 27 28 29 30
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 1 2 3 4
Today: 7/26/2012
empid ename typeofleave staff noday strdate endate result apid
1 pratik earned Teaching 2 5/2/2012 5/4/2012 accepted 1
1 pratik Earned Leave Teaching 2 1/1/2012 1/2/2012 accepted 17
1 pratik casual Teaching 1 3/25/2012 3/25/2012 accepted 21
1 pratik earned Teaching 1 7/1/2012 7/1/2012 accepted 23
Exit Application


Admin2
Info
Exit
Employee Detail
Employee Id:
Employee Name:
Password:
Staff Type
Employee Address:
Depatment:
Salary:
Save
Update
Delete
Clear
Exit
empid ename password staff Department esal
3 KALYANI v Teaching MBA 1200
4 ACHAL w Non-teaching MCA 1700
47 sumedha sh Teaching MBA 12345
5 MANMEET q Non-teaching MBA 1700
6 GUPTA r Teaching MCA 1700
7 NIKITA s HOD MCA 1900
8 SWATI t Teaching MBA 1700
9 ADITI admin admin ADMIN 1000


AllLEavedetail
Info
Exit
EmployeeId :-
1
ALL
empid ename staff casual earned compensatory halfpay maternity
1 pratik Teaching 9 2 15 20 90
2 vicky Non-teaching 8 6 10 15 90
3 kalyani Teaching 10 10 15 20 90
4 ACHAL Non-teaching 8 6 10 15 90
5 MANMEET Non-teaching 8 6 10 15 90
6 GUPTA Teaching 10 10 15 20 90
27 isha Teaching 10 10 15 20 90
47 sumedha Teaching 10 10 15 20 90

CONCLUSION

Further upgradation of the Leave Management System for various types of organisations with multiple hierarchies can help in reducing paperwork, help achieve error free tabulation and calculation of leaves.

LIMITATION:

- The leave status cannot be cleared until and unless the HOD approves/ rejects the application.
- The staff cannot cancel the leave application once made.
- The system will not function properly with multiple computers in the network.
- The system will fail if the server fails, but the data will remain stored in the database.

FUTURE SCOPE:

- The leaves that have not been availed by the staff in the given session can be automatically carried forward to the next working session depending on the HR policy of the organisation.

- Every employees individual leave record can be tabulated in a pie chart format to ascertain his/her performance during the working session for HR appriasal activity.

- The summarised data generated by this system can be further provided to different departments, for example, Finance, Accounts for direct calculation of salaries.

- If personal data is fed into the system while creating employee profiles, a single interface to ascertain information such as no. of years worked, birthdays, notice period, promotions, can be availed at a single point by the HOD.

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- C# Programming by E. Balgurusamy

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