Dharmsinh Desai University, Nadiad

Faculty of Technology, Department of Computer Engineering

B.Tech. CE Semester – VI

Subject: (CE-620) Object Oriented Software Engineering

Project Title:

Leave Management System

Submitted By:

Akbari Rajkumar CE005 17CEUOG126

Beladiya Darshan CE013 17CEUBG057

Guided By:

Prof. Prashant M. Jadav

Asso. Professor, CE Dept.

Dharamsinh Desai UniverSity

Dharmsinh Desai University, Nadiad

Faculty of Technology, Department of Computer Engineering

CERTIFICATE

This is to certify that Advanced Technologies project entitled "Farming Assistance System" is the bonafied report of work carried out by

1) **Akbari Rajkumar CE005 17CEUOG126**
2) **Beladiya Darshan CE013 17CEUBG057**

Of Department of Computer Engineering, Semester VI, academic year 2019-20, under our supervision and guidance.

Guide	HOD
Prof. Prashant M. Jadav	**Dr. C. K. Bhensdadia**
Associate Professor of	Head of the Department of
Department of Computer	Department of Computer
Engineering, Dharmsinh Desai University, Nadiad.	Engineering, Dharmsinh Desai University, Nadiad.

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1. Abstract

-Leave Management System : 1.Admin ,2.Employee

-basically it's a normal system for managing and storing leaves of giant companies for future purposes

-this will manages employee as well as leaves and shows summary of all the employees with reference to it's leaves as well as duration.

-well maanged database with dual side operations from database to application as well as application to database.

2. Introduction

#.Global

-sign in

-sign out

1.Admin :

-change password

-manages leave

-manages employee

-sanction leaves

-summarises whole company by reports

2.employee

-apply for leave

-application status

-change password

-manage details

Tools/Technologies

ASP.NET

C#.NET

MYSQL server

3. Software Requirement Specifications

1.Global users

1.1.login :

Description : login for specific types of users.
input : username,password,type of user.
output : user specific view.

1.2.logout:

Description : ending the session.

1.3.statistics :

Description : shows the status of users in graphical overview with all types of leaves .

1.4.calender view :

Description : it will allow the user to see .
output : calender type view with redirecting on click to history of that day .

2.employee

2.1.apply_leave :

Description : apply for leave to higher level users.
input: days,starting,ending date and type of leave .
output : sent to ....

2.2.notification:

Description : user will recieve a notification for status of it's leave approved/rejected.

2.3.cancel_leave :

Description: if user wants to take back it's request ..

2.4.show_satus :

Description : it show statuses of it's leaves with whole past leaves .

2.5.history :

Description : it shows history of the users with all the views,calender,graphical etc..

2.6.apply_overtime:

Description : applying for overtime .
input: date,time,days.
output: notification for status .

3.HR

3.1.show_notifications :

Descripton : it will shows all requests of employees for leaves.
output: request data with whole control on request.

3.2.approve|decline :

Description : hr can approve the request or decline the request.
input: reason for declining.
output : notification sent to appropriate user .

3.3.manage_employee:

3.3.1.register_employee :

Description: register new employee.
input: employee data or details.
output: Added employee.

3.3.2.remove_employee :

Description: remove employee.
output: employee detail removed.

3.3.3.update_employee :

Description: update data of employee.
input: add new employee data or details.
output: updated details in whole system.

3.4.manage_leaves:

3.4.1.generate_leave_types :

Description: for generating new shedules for leaves
input: leaves details
output: add leaves to appropriate user's credentials.

3.4.2.add_leave_type:

Description: for adding new leaves to system.

input: leave details

output: add leaves to appropriate user's credentials.

3.4.3.remove_leave_type:

Description : for removing leave type

4.admin

4.1.activity_control :

Description : user's activity and contol means admin can CRUD on it's activity and also whole control same as HR.

4.2.send_notification:

Description : for sending warnings or appreciations to lower level employees for their work

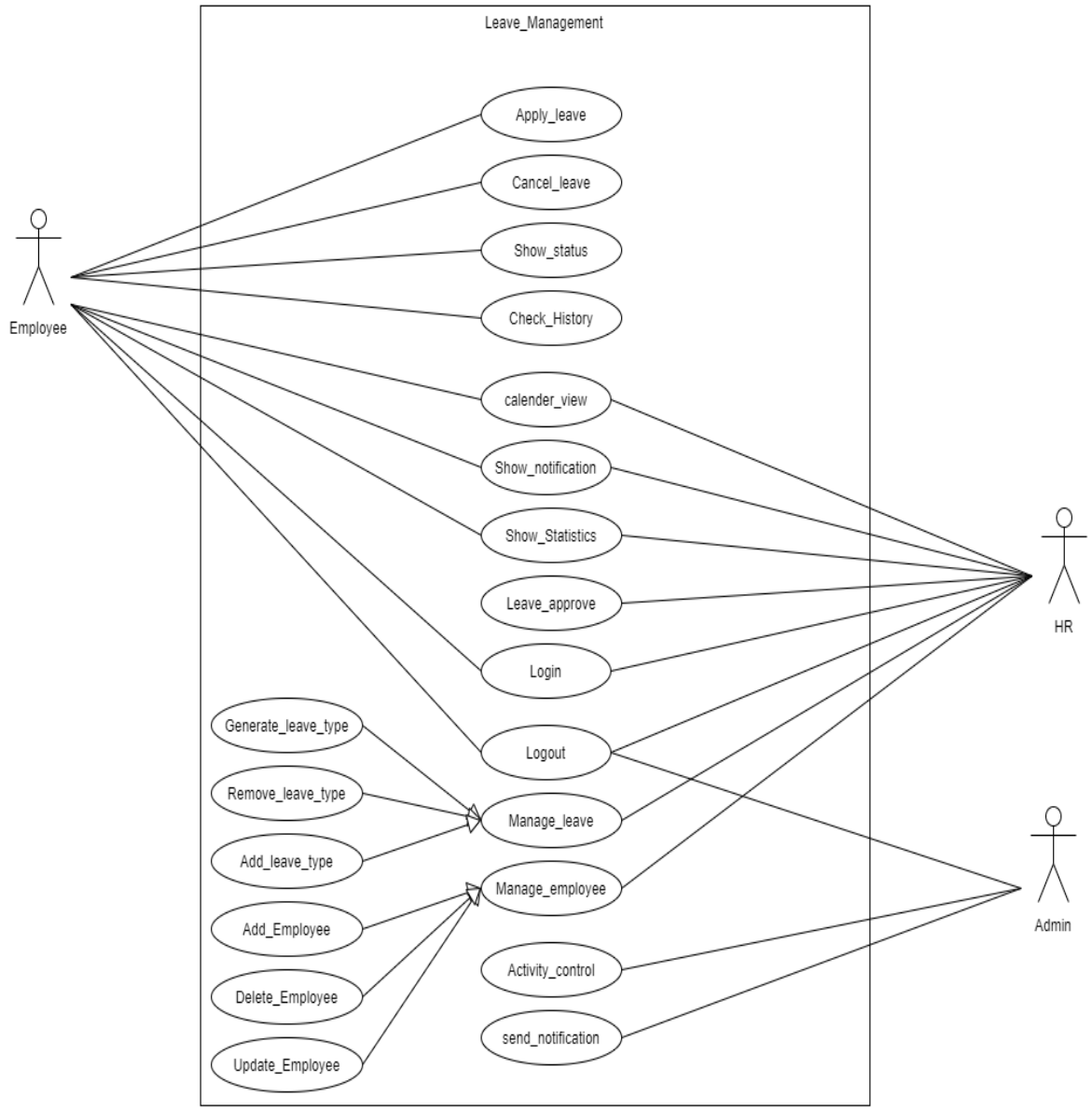
#Non-Functional Requirement

-platform independent

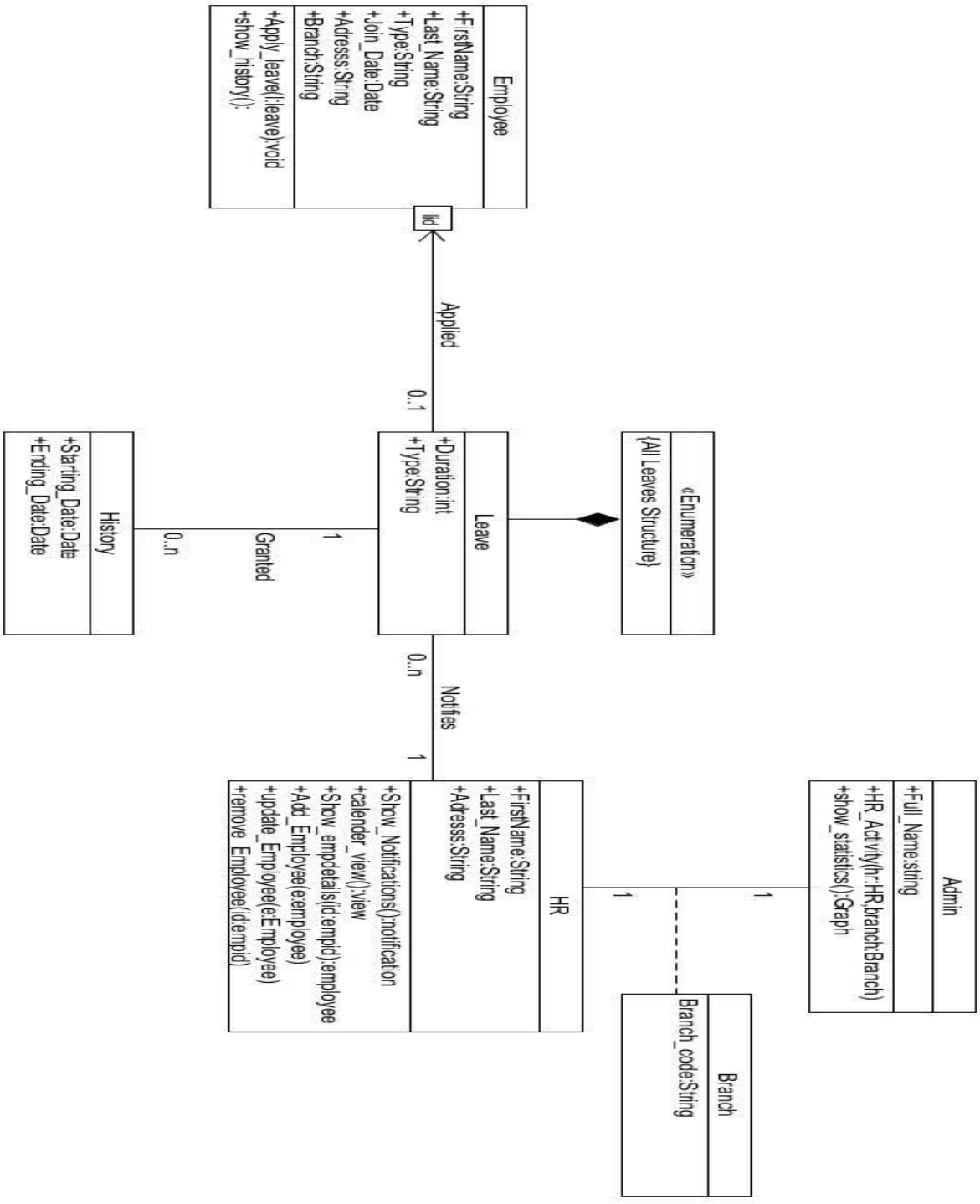
-robust system with security constraints

4. Design

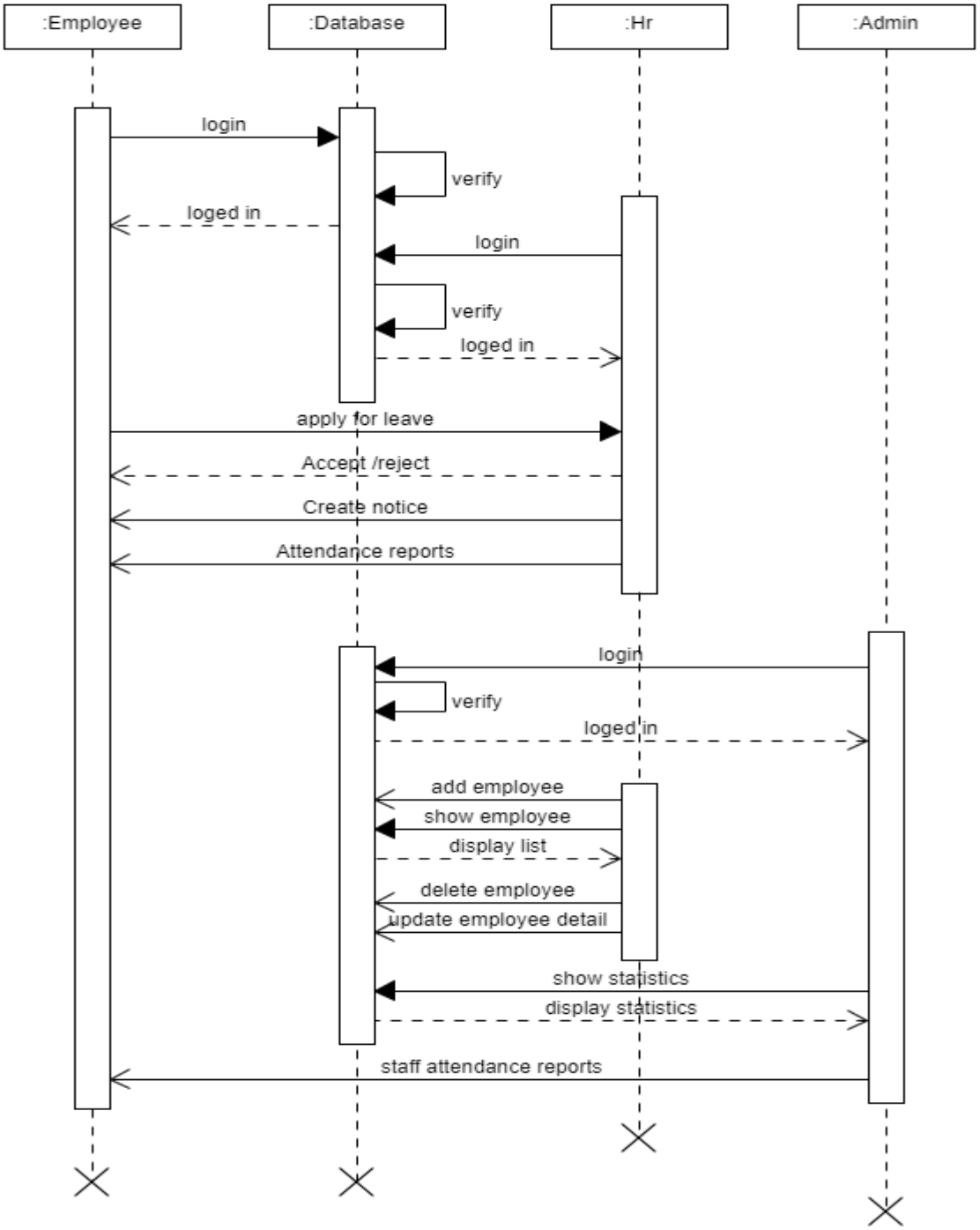
4.1 Use case Diagrams



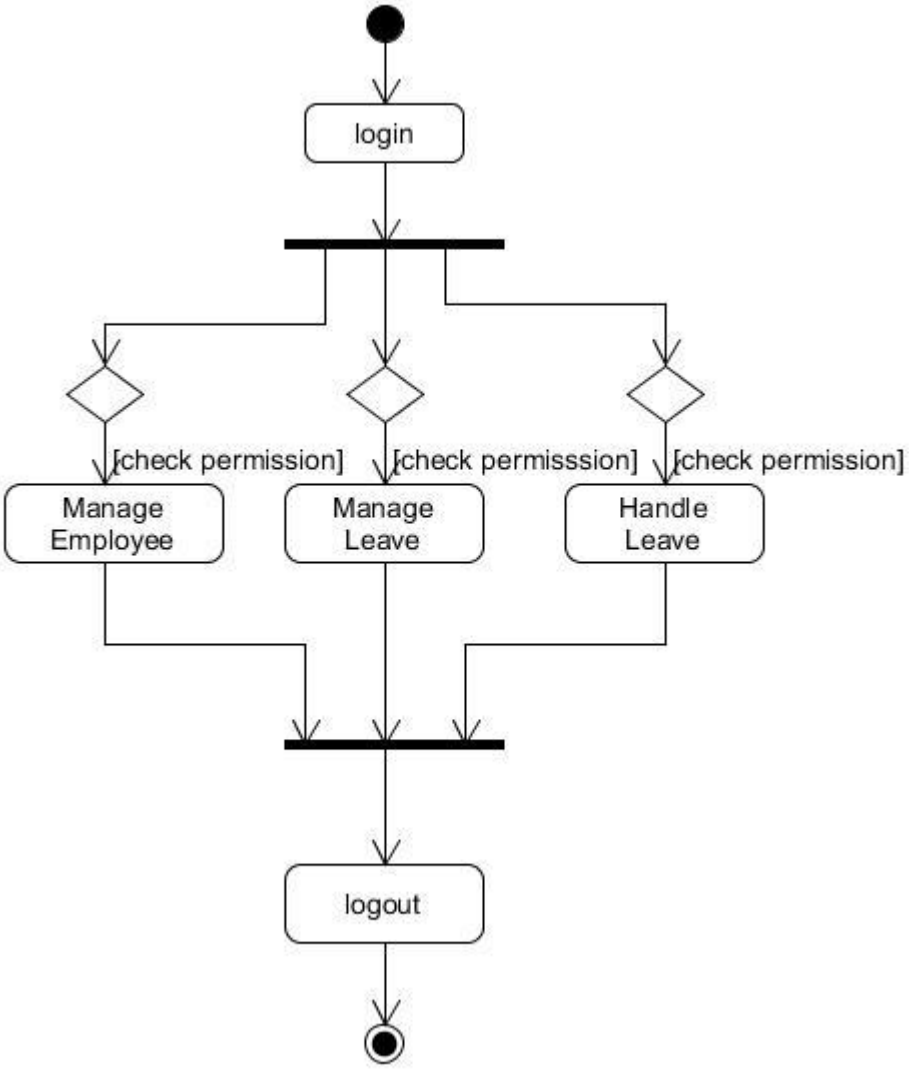
4.2 Class Diagrams

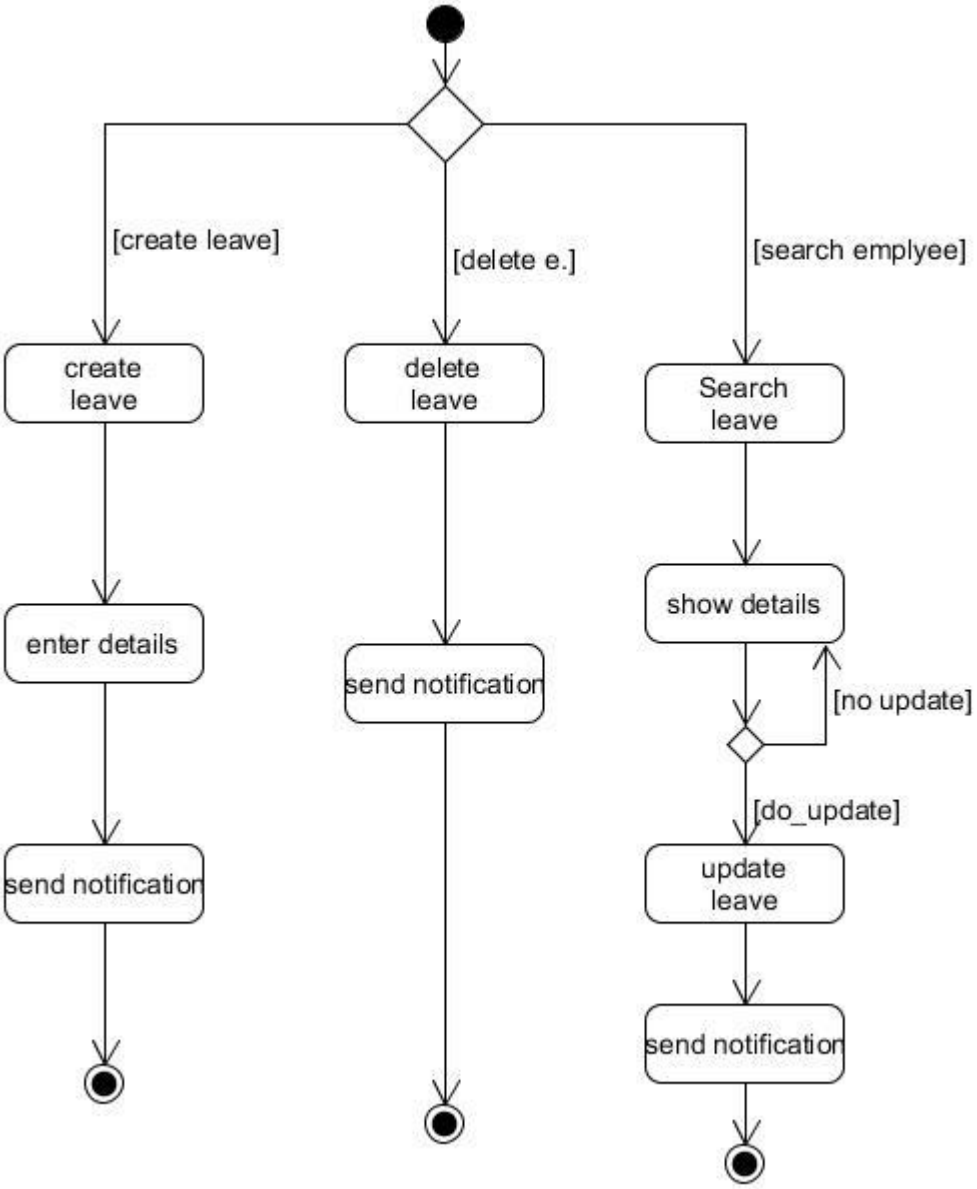


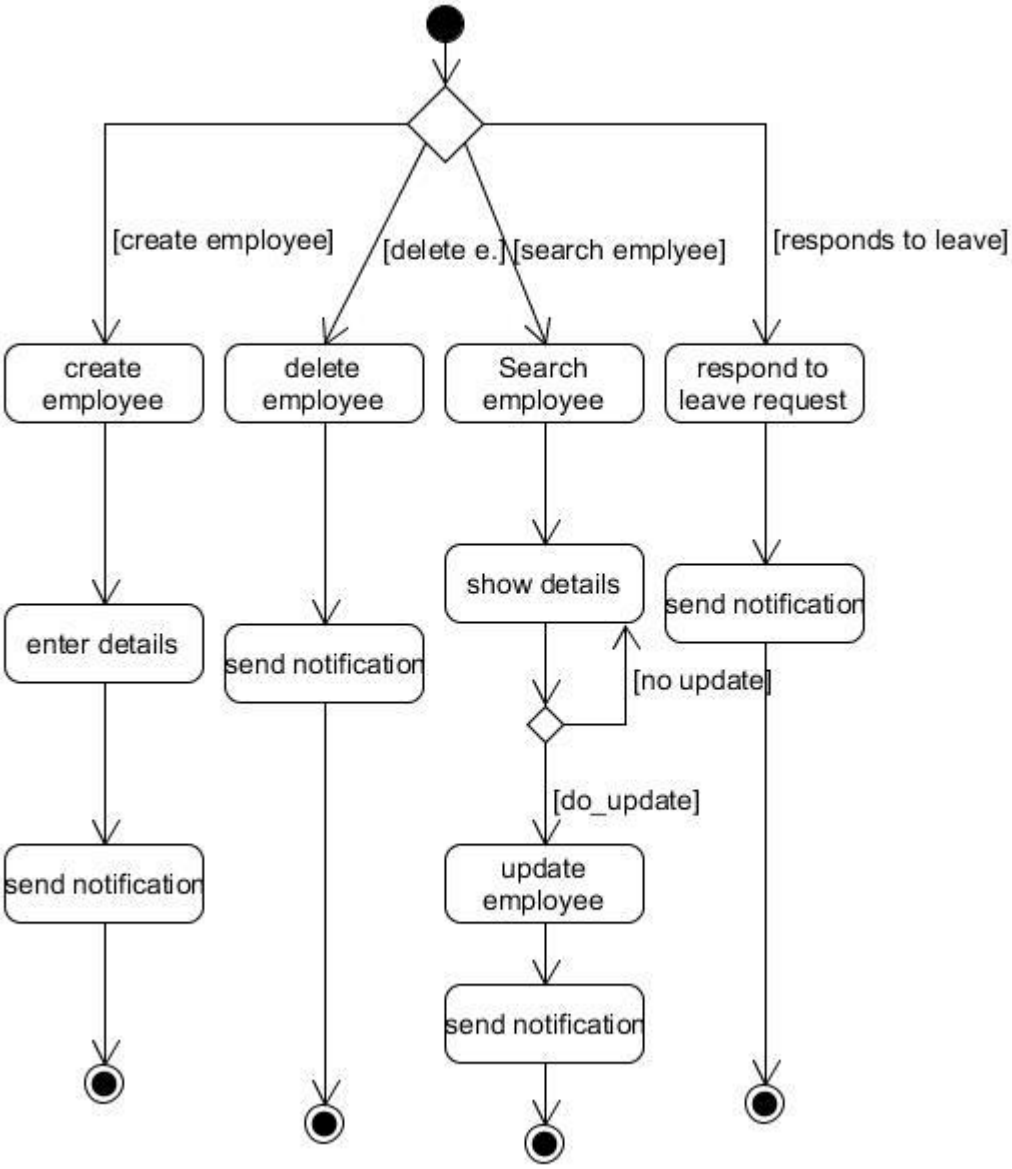
4.3 Sequence Diagrams

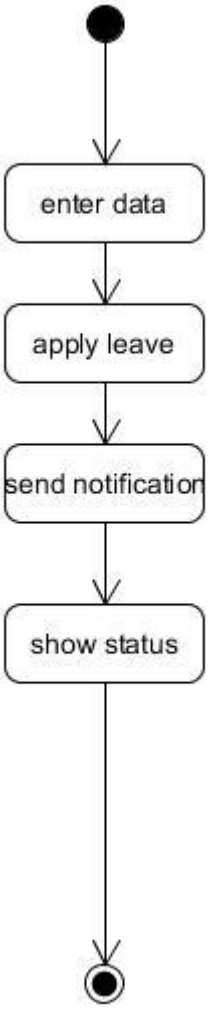


4.4 Activity Diagrams

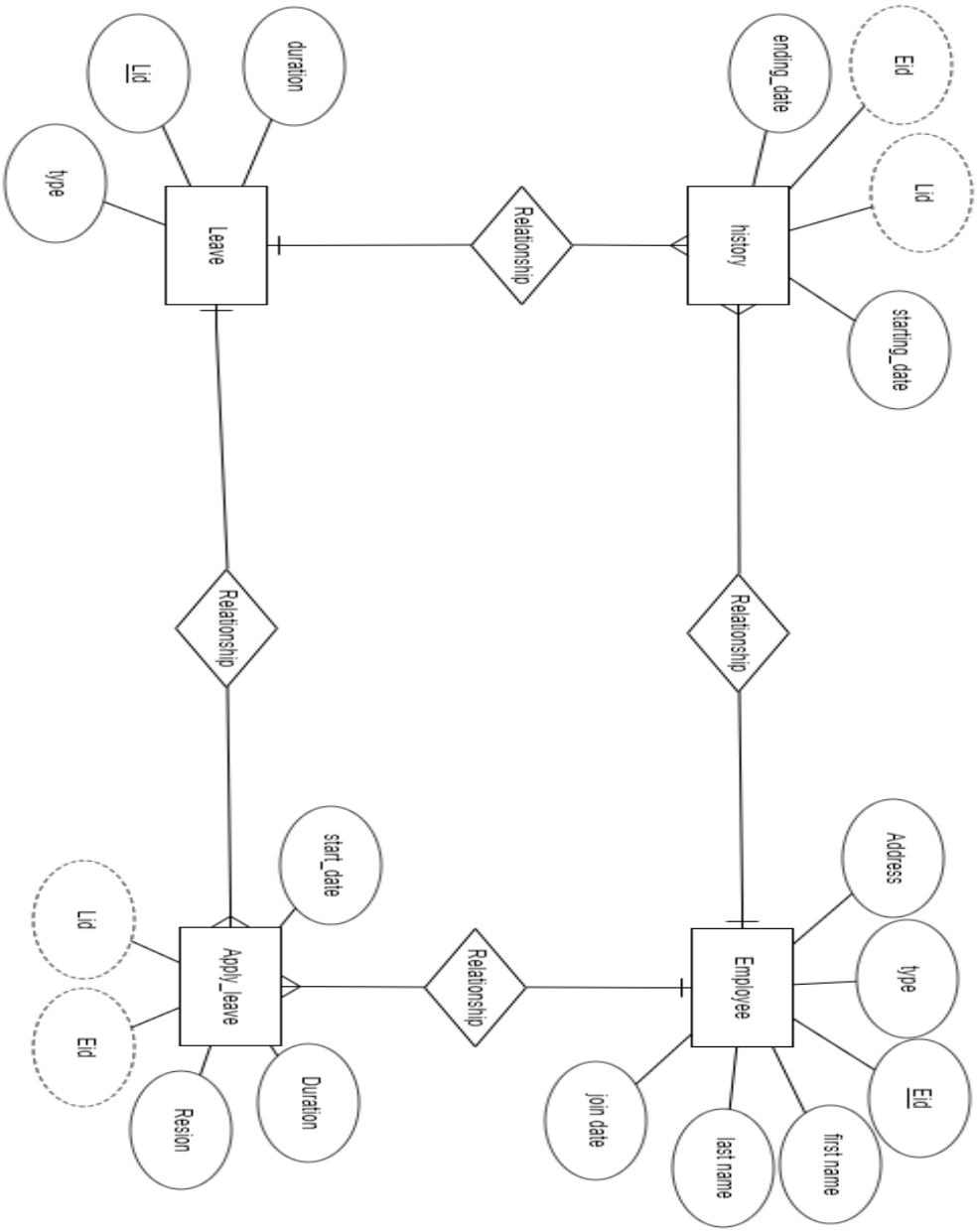



[create leave]
[delete e.]
[search emplyee]
create leave
delete leave
Search leave
enter details
send notification
show details
[no update]
[do_update]
send notification
update leave
send notification


[create employee]
[delete e.]
[search emplyee]
[responds to leave]
create employee
delete employee
Search employee
respond to leave request
enter details
send notification
show details
send notification
send notification
[no update]
[do_update]
update employee
send notification


enter data
apply leave
send notification
show status

4.5 E-R Diagrams



4.6 Data Dictionary

1.Employee

Sr no.	Field name	Data Type	Width	Required	Unique	Pk/ Fk	Referenced table	Description
1	Eid	varchar2	20	yes	yes	pk		
2	firstname	varchar2	50	yes	no			
3	lastname	varchar2	10	yes	no			
4	type	varchar2	15	yes	no			
5	join date	date	20	yes	no			
6	address	varchar2	30	yes	no			

2. Leave

Sr no.	Field name	Data Type	Width	Required	Unique	Pk/Fk	Referenced table	Description
1	Lid	varchar2	20	yes	yes	pk		
2	type	varchar2	20	yes	no			
3	duration	varchar2	20	yes	no			

3. History

Sr no.	Field name	Data Type	Width	Required	Unique	Pk/Fk	Referenced table	Description
1	Eid	varchar2	20	yes	no	fk		
2	Lid	varchar2	20	yes	no	fk		
3	starting date	date	10	yes	no			
4	ending date	date	10	yes	no			

4. Apply_Leave

Sr no.	Field name	Data Type	Width	Required	Unique	Pk/Fk	Referenced table	Description
1	Eid	varchar2	20	yes	no	fk		
2	Lid	varchar2	20	yes	no	fk		
3	start date	date	10	yes	no			
4	duration	varchar2	20	yes	no			
5	reasion	varchar2	20	yes	no			

5. Implementation Details

-implemented using interated visual studio with .net framework

-a simple website which can handle all the stuff related to this definition using consistent database mysql

-used database first approach with dual things for handling data application to database as well as database to application

-all the tables are interrealted with foreign key concept

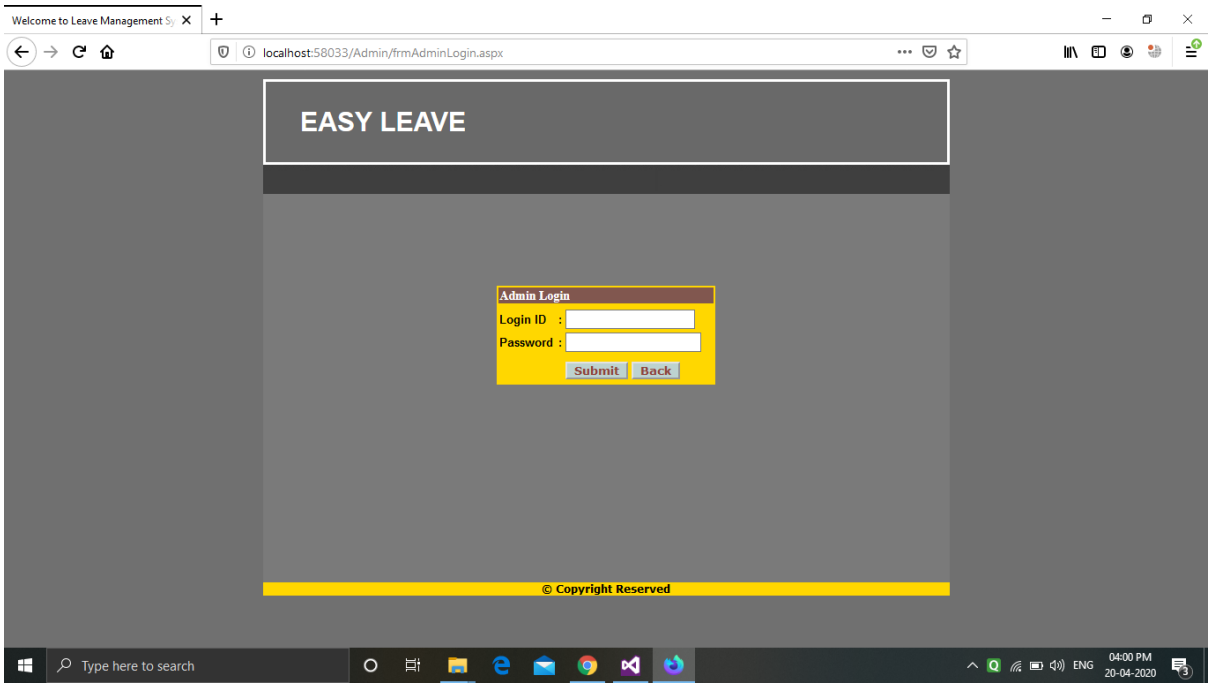
design is distributed in three parts :-

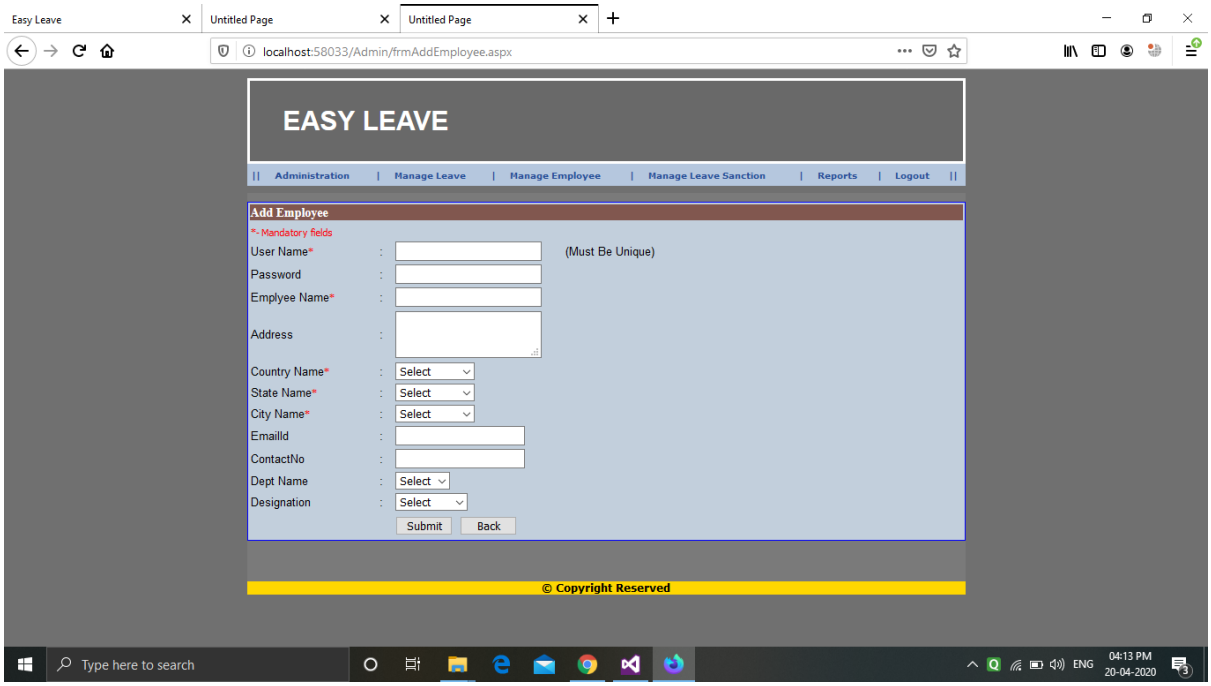
-header: logo, two user options

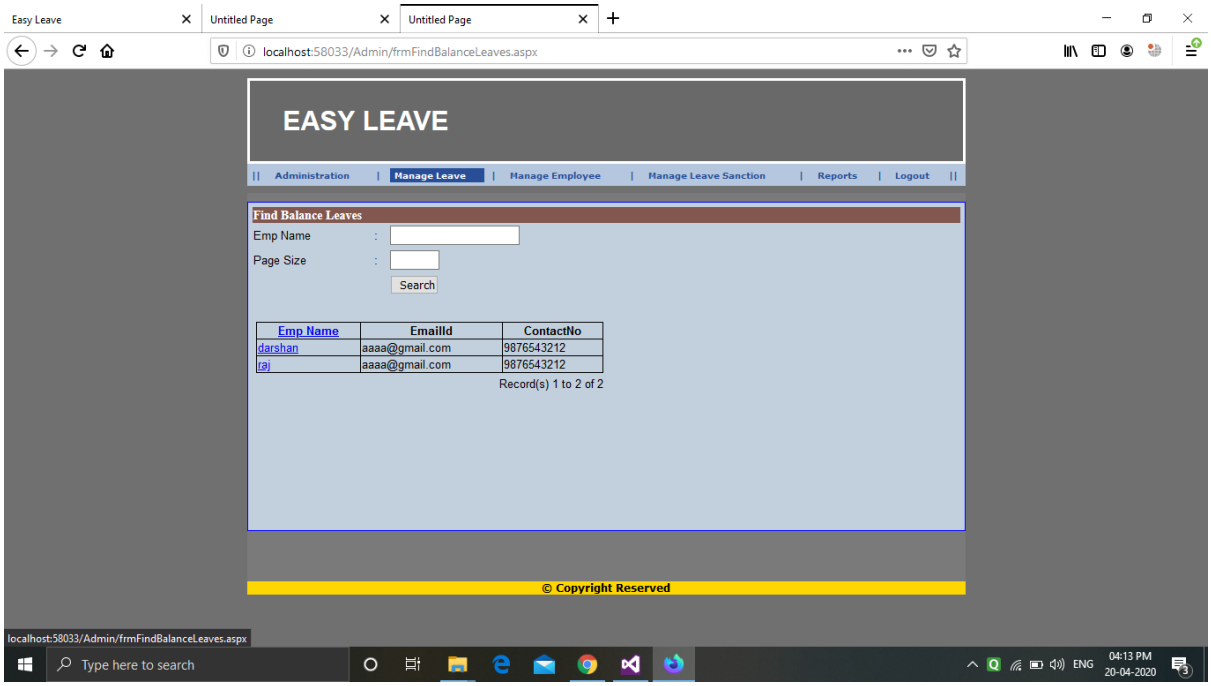
-main part:core logic

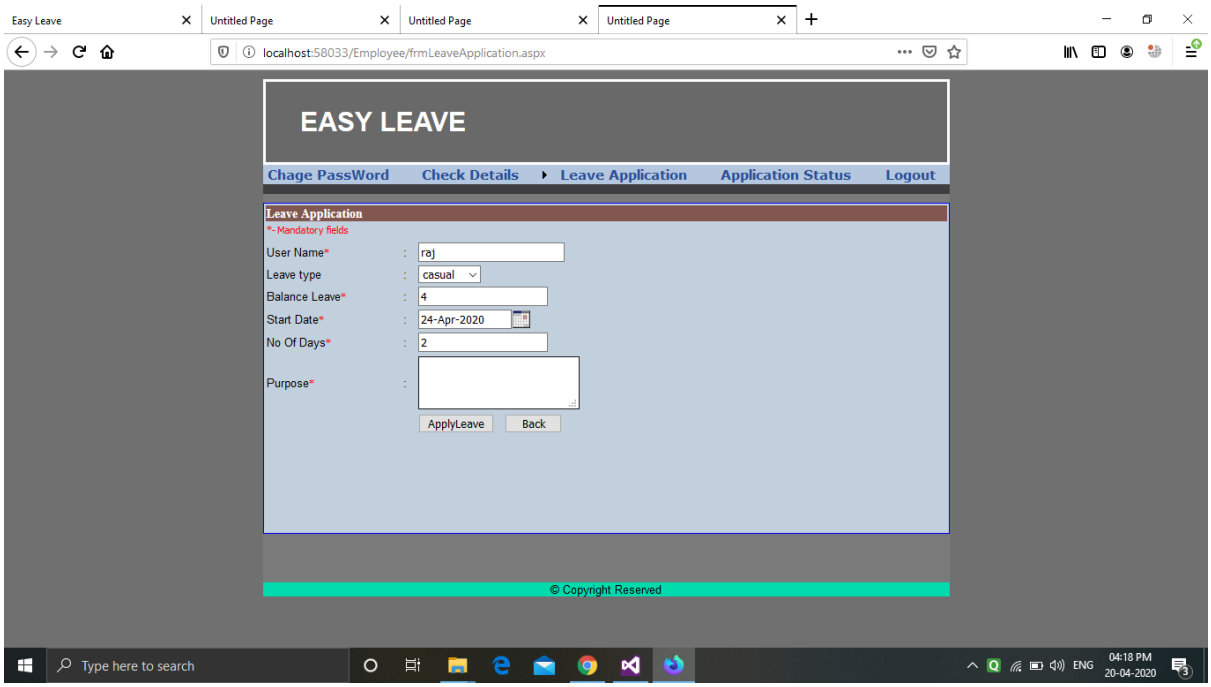
-footer

6. screen shots






Easy Leave
Untitled Page
Untitled Page
localhost:58033/Admin/frmFindBalanceLeaves.aspx
EASY LEAVE
Administration | Manage Leave | Manage Employee | Manage Leave Sanction | Reports | Logout
Find Balance Leaves
Emp Name :
Page Size :
Search
Emp Name | EmailId | ContactNo
darshan | aaaa@gmail.com | 9876543212
raj | aaaa@gmail.com | 9876543212
Record(s) 1 to 2 of 2
© Copyright Reserved
localhost:58033/Admin/frmFindBalanceLeaves.aspx
Type here to search
ENG
04:13 PM
20-04-2020


Easy Leave
Untitled Page
Untitled Page
Untitled Page
localhost:58033/Employee/frmLeaveApplication.aspx
EASY LEAVE
Chage PassWord | Check Details | Leave Application | Application Status | Logout
Leave Application
*- Mandatory fields
User Name* : raj
Leave type : casual
Balance Leave* : 4
Start Date* : 24-Apr-2020
No Of Days* : 2
Purpose* :
ApplyLeave
Back
© Copyright Reserved
Type here to search
ENG
04:18 PM
20-04-2020

7. conclusion

It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of not only programming in ASP.NET and VB.NET web based application and no some extent Windows Application and SQL Server, but also about all handling procedure related with project name**.** It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

8. Limitations and Future Enhancements

- The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.
- Training for simple computer operations is necessary for the users working on the system.
- A console for the data centre may be made available to allow the personnel to monitor on the sites which were cleared for hosting during a particular period.

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www.msdn.microsoft.com/net/quickstart/aspplus/default.com

www.asp.net

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