JARS WEB PORTAL

A PROJECT REPORT

Submitted
by

S. ABDUL KALAM

C. DINESH

S. GOLDWIN NOAH

R. JABEZ

S. LOGESHWARAN

in partial fulfillment of the requirements for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING JAYARAJ

ANNAPAKIAM CSI COLLEGE OF ENGINEERING

NAZARETH – 628617

ANNA UNIVERSITY: CHENNAI 600 025

APRIL – MAY 2023

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "**JARS WEB PORTAL**" is the bonafide work of "**S. ABDUL KALAM (951320104002), C. DINESH (951320104009), S. GOLDWIN NOAH (951320104015), R. JABEZ (951320104020), S. LOGESHWARAN (951320104030)**" who carried out the project work under my supervision.

SIGNATURE
Dr. G. Jemilda, B.E., M.Tech.,Ph.D.
HEAD OF THE DEPARTMENT
Department of CSE,
JACSI College of Engineering,
Nazareth.

SIGNATURE
Mr. R.S. Sathyaraj, B.Tech.,M.E.
SUPERVISOR
Department of CSE,
JACSI College of Engineering,
Nazareth.

Submitted for the B.E Degree Mini Project VIVA-VOCE Examination to be held at JACSI College of Engineering, Nazareth on……

INTERNAL EXAMINER **EXTERNAL EXAMINER**

ACKNOWLEDGEMENT

This project has been successfully completed due to the blessing and wisdom showered on us by **God the Almighty**. We would like to thank our Parents for giving us the invaluable moral support to this project.

It is the right time to express our heartiest thankfulness to our esteemed institution **JAYARAJ ANNAPACKIAM CSI COLLEGEOF ENGINEERING, NAZARETH** for providing a sound knowledge in the field of computer science and engineering.

With much loving gratitude, we express our heartiest thanks to our beloved correspondent **Mr. J. JEYAKUMAR RUBAN,** our beloved principal **Dr. S. JEYAKUMAR** for giving us an opportunity to do this project.

We extend our gratitude to our Head of the Department **Dr. G. JEMILDA** for supportiveness and encouragement throughout this project. A warm word of thanks to our Internal Guide **Mr.R.S. SATHYARAJ** Assistant Professor Department of Computer Science and Engineering, for providing useful assistance throughout our project.

We take this opportunity to thank all of our staff members and technical assistance for their valuable advice and pleasing co-ordination throughout our project.

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF ABBREVIATION

JARS	JACSICE Attendance Registration System
ASP	Active Server Page
MS SQL	Microsoft Structured Query Language
RAM	Random Access Memory

ABSTRACT

JARS Web portal deals with the maintenance of the student's attendance details. It generates the attendance of the student on basis of presence in class. It is maintained on the daily basis of their attendance. the staffs will be provided with the separate username & password to make the student's status. The staffs handling the subjects is responsible to make the attendance for all students. Only if the student present on that particular period, the attendance will be calculated. The student attendance reports based on total of attendance registered. It also has student information as biodata information for using it if needed. The admin the separately maintained by separate password.

.

CHAPTER 1

INTRODUCTION

"JARS Web portal" is software developed for maintaining the attendance of the student on the daily basis in the collage. Here the staffs, who are handling the subjects, will be responsible to mark the attendance of the students. Each staff will be given with a separate username and password based on the subject they handle. An accurate report based on the student attendance is generated here. This system will also help in evaluating attendance eligibility criteria of a student. Report of the student's attendance on daily basis is generated. Then the students can apply leave by asking leave that can be approved or rejected by the staff is displayed or the pending status is displayed. If there is any complain for the students can be complained and its status is also displayed. The data of students can be also maintained by JARS Web Portal .These are the works of JARS Web Portal.

CHAPTER 2
SYSTEM ANALYSIS

2.1 OBJECTIVES

Analysis can be defined as breaking up of any whole so as to find out their nature, function etc. It defines design as to make preliminary sketches of; to sketch a pattern or outline for plan. To plan and carry out especially by artistic arrangement or in a skillful wall. System analysis and design can be characterized as a set of techniques and processes, a community of interests, a culture and an intellectual orientation. The various tasks in the system analysis include the following.

- Understanding application.
- Planning.
- Scheduling.
- Developing candidate solution.
- Performing trade studies.
- Performing cost benefit analysis.
- Supervising, installing and maintaining the system.

This system manages to the analysis of the report creation and develops manual entry of the student attendance. First design the student entry form, staff allocation and time table allocation forms. This project will helps the attendance system for the department calculate percentage and reports for eligibility criteria of examination.

2.2 EXISTING SYSTEM

The Existing system is a manual entry for the students. Here the attendance will be carried out in the hand written registers. It will be a tedious job to maintain the record for the user. The human effort is more here. The retrieval of the information is not as easy as the records are maintained in the hand written registers. This application requires correct feed on input into the respective field. Suppose the wrong inputs are entered, the application resist to work. so the user find it difficult to use.

Disadvantages of Existing System:

- It is time consuming
- It consumes lot of manpower to better results
- It lacks of data security
- Retrieval of data takes lot of time
- Percentage of accuracy is less
- Reports take time to produce

2.3 PROPOSED SYSTEM:

To overcome the drawbacks of the existing system, the proposed system has been evolved. This project aims to reduce the paper work and saving time to generate accurate results from the student's attendance. The system provides with the best user interface. The efficient reports can be generated by using this proposed system.

Advantages of Proposed System

- It is trouble-free to use.
- It is a relatively fast approach to enter attendance
- Is highly reliable, approximate result from user
- Best user Interface
- Efficient reports

CHAPTER 3
SYSTEM SPECIFICATION

3.1 HARDWARE REQUIREMENTS (Minimum Requirement)

Minimum RAM: 2GB
Hard Disk: 128 GB
Processor: Intel Pentium 4(1.50 GHZ) or above

3.2 SOFTWARE REQUIREMENTS (minimum Requirement)

Operating system: Windows
Front Design: Microsoft. NET framework 4.0, ASP.NET Version: 4.8.
Front-End Language: C#
Back-End: MS SQL

3.3 DEVELOPMENT TOOLS AND TECHNOLOGIES

Microsoft. Net framework version 4.0:

NET Framework types enable you to accomplish a range of common programming tasks, including string management, data collection, database connectivity, and file access. In addition to these common tasks, the class library includes types that support a variety of specialized development scenarios NET Framework version 4. The NET Framework is Microsoft's comprehensive and consistent programming model for building applications that have visually stunning user experiences, seamless and secure communication, and the ability to model a range of business processes.

Microsoft SQL Sever:

What is SQL Server?

- It is a software, developed by Microsoft, which is implemented from the specification of

  RDBMS.
- It is also an ORDBMS.
- It is platform dependent.
- It is both GUI and command based software.
- It supports SQL (SEQUEL) language which is an IBM product, non-procedural, common database and case insensitive language.

Usage of SQL Server

- To create databases.
- To maintain databases.
- To analyze the data through SQL Server Analysis Services (SSAS).
- To generate reports through SQL Server Reporting Services (SSRS).
- To carry out ETL operations through SQL Server Integration Services (SSIS).

3.4 OVERALL ARCHITECTURE

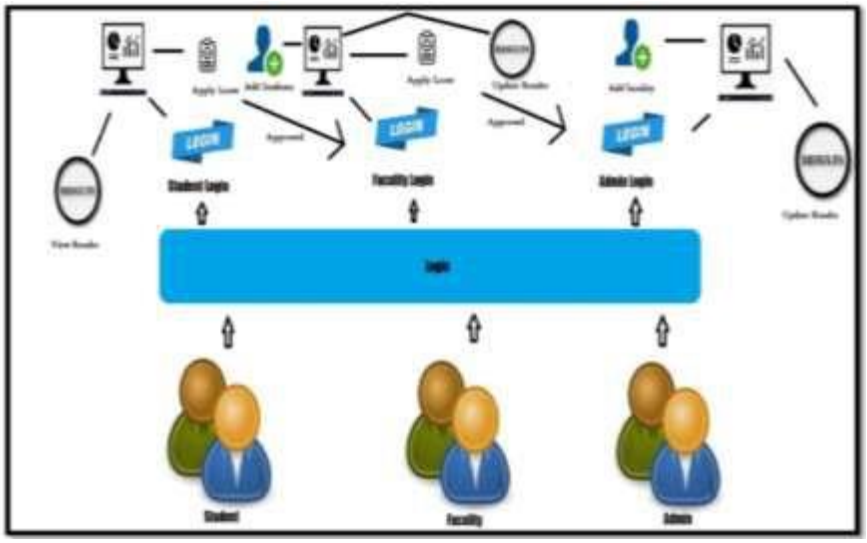


Fig: Overall Architecture

CHAPTER 4
PROJECT DESCRIPTION

4.1 PROBLEM DEFINITION:

This system developed will reduce the manual work and avoid redundant data. By maintaining the attendance manually, then efficient reports cannot be generated. The system can generate efficient weekly, consolidate report based on the attendance. As the attendances are maintained in registers it has been a tough task for admin and staff to maintain for long time. Instead the software can keep long and retrieve the information when needed.

4.2PROJECT OVERVIEW

- Attendance Management System basically has two main modules for proper functioning
- Admin module is has rights for creating any new entry of faculty and student details.
- User has a rights of making daily attendance, generating report. Attendance report can be taken by given details of student details, date, class.

4.3 MODULE DESCRIPTION

The system should be designed in such a way that only authorized people should be allowed to access some particular modules. The records should be modified by only administrators and no one else. The user should always be in control of the application and not the vice versa. The user interface should be consistent so that the user can handle the application with ease and speed. The application should be visually, conceptually clear.

4.3.1 ADMIN MODULE:

Student Details:

In this module deals with the allocation of roll no and personal details for new batch. It will generate of personal details of student and academic details of the students with the photos.

Staff Details:

It helps to allot the subject and the subject code to the particular staffs. It provides the facility to have a user name and password to the staffs.

Report details:

Report can be taken by monthly and can get each student details.

4.3.2 STAFF MODULE:

Attendance details:

I t assists the staff to mark attendance to the students for their subject. This will authenticate the staff before making the entry.

Report details:

Daily report can be gathered. It has student information also consolidate report to all student attendance details.

4.3.3 STUDENT MODULE

In this module profile is displayed. Then the total number of present, absent, leave, compline is displayed. Password can be changed by the student if needed. But it can be moniter by staff in there module.

4.4 SYSTEM FLOW DIAGRAM:

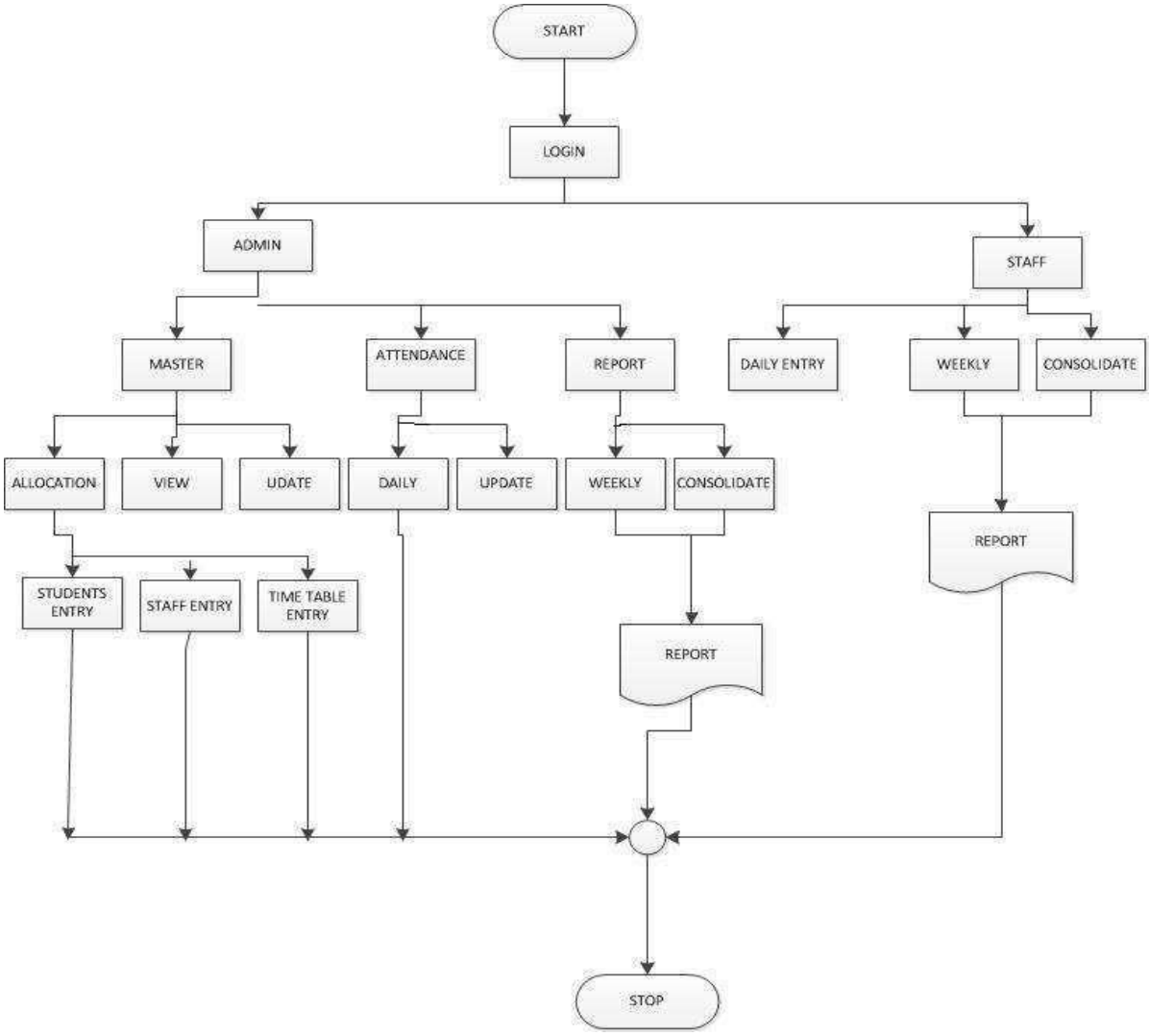


Figure -System Flow Diagram

4.5 DATA FLOW DIAGRAM

4.6 USE CASE DIAGRAM

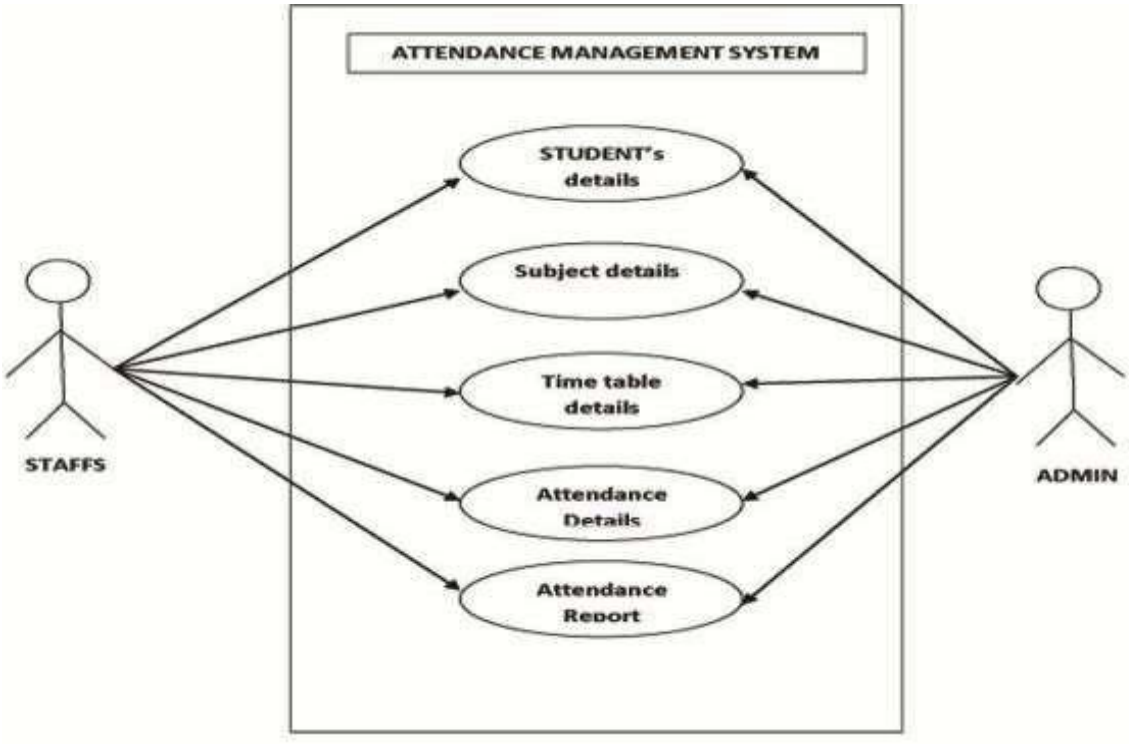


Figure: Use case Diagram

CHAPTER 5
SYSTEM TESTING

5.1 INTRODUCTION

Once source code has been generated, software must be tested to uncover (and correct) as many errors as possible before delivery to customer. Our goal is to design a series of test cases that have a high likelihood of finding errors. To uncover the errors software techniques are used. These techniques provide systematic guidance for designing test that Exercise the internal logic of software components, and Exercise the input and output domains of the program to uncover errors In program function, behavior and performance.

Steps: Software is tested from two different perspectives:

- Internal program logic is exercised using ―White box‖ test case design Techniques.
- Software requirements are exercised using ―block box‖ test case Design techniques.

In both cases, the intent is to find the maximum number of errors with the Minimum amount of effort and time.

5.2 TESTING METHODOLOGIES

A strategy for software testing must accommodate low-level tests that are necessary to verify that a small source code segment has been correctly implemented as well as high-level tests that validate major system functions against customer requirements. A strategy must provide guidance for the practitioner and a set of milestones for the manager. Because the steps of the test strategy occur at a time when deadline pressure begins to rise, progress must be measurable and problems must surface

as early as possible. Following testing techniques are well known and the same strategy is adopted during this project testing.

5.2.1 UNIT TESTING

Unit testing focuses verification effort on the smallest unit of software design- the software component or module. The unit test is white-box oriented. The unit testing implemented in every module of student attendance management System. by giving correct manual input to the system ,the data are stored in database and retrieved. If you want required module to access input or get the output from the End user. any error will accrued the time will provide handler to show what type of error will accrued .

5.2.2 SYSTEM TESTING

System testing is actually a series of different tests whose primary purpose is to fully exercise the computer-based system. Below we have described the two types of testing which have been taken for this project. it is to check all modules worked on input basis. If you want change any values or inputs will change all information. so specified input is must.

5.2.3PERFORMANCE TESTING

Performance testing is designed to test the run-time performance of software within the context of an integrated system. Performance testing occurs throughout all steps in the testing process. Even at the unit level, the performance of an individual module may be assessed as white-box tests are conducted. This project reduce attendance table, codes. it will generate report fast.no have extra time or waiting of results entered correct data will show result few millisecond. just used only low memory of our system. Automatically do not getting access at another software. Get user permission and access to other application

CHAPTER 6
CONCLUSION

6.1 CONCLUSION

JARS Web Portal deals with all kind of student details, academic related reports, college details, course details, curriculum, batch
details and other resource related details too. It tracks all the details of a student from the day one to the end of his course which can be used for all reporting purpose, tracking of leave status, progress in the course, completed semesters years, coming semester year curriculum details, exam details, project or any other assignment details, final exam result; In our project, the attendance management system is particularly designed to provide daily attendance and leave updates from the college to the respective students. Project administers is of three sectors. First is Admin Login where admin will update the new student and staff; second is the Staff Login who updates the attendance and leave status of the students; Student will be able to login and check their attendance and leave status with respect to their subjects. Once all the updates are completed, Admin will be sending the details of the student email id. Email Gateway helps to have updates of their Student.

6.2 APPENDICES

6.2.1 Sample Coding

Home.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Home.aspx.cs" Inherits="Home"
%>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
 <title></title><link rel="stylesheet" type="text/css" href="engine1/style.css" media="screen" />
<style type="text/css">a#vlb{display:none}</style>
<script type="text/javascript" src="engine1/jquery.js"></script>
 <link href="Style.css" rel="stylesheet" type="text/css" />
 <style type="text/css">
        style1
        {
            width: 100px;
        }
        .style2
        {
            width: 4px;
        }
        .style3
        {
            width: 100%;
        }
        .style4
        {
            width: 75px;
```

```
        }
        .style5
        {
            font-family: "Arial Rounded MT Bold";
            font-size: x-small;
            color: #006666;
        }
    </style>
</head>
<body>
    <form id="form1" runat="server">
    <div id="header">
<asp:Image ID="Image3" runat="server" ImageUrl="~/img/logo1.jpg" />
   </div>
    <div id="menu">
        <table class="style1">
            <tr>
                <td>
                    <asp:Button ID="Button1" runat="server" CssClass="btnmenu" Text="Home"
                        PostBackUrl="~/Home.aspx" />
                </td>
                <td class="style2">
                    <asp:Button ID="Button4" runat="server" CssClass="btnmenu" Text="Branch&Year"
                        PostBackUrl="~/Branch.aspx" />
                </td>
                <td>
                    <asp:Button ID="Button3" runat="server" CssClass="btnmenu" Text="Staff"
                        PostBackUrl="~/Staff.aspx" />
                </td>
                <td>
                    <asp:Button ID="Button2" runat="server" CssClass="btnmenu" Text="FeedBack"
                        PostBackUrl="~/Feedback.aspx" />
```

```
            </td>
            <td>
        <asp:Button ID="Button5" runat="server" CssClass="btnmenu" Text="Admin Panel"
                PostBackUrl="~/Admin/Home.aspx" />
            </td>
            <td>
          <asp:Button ID="Button6" runat="server" CssClass="btnmenu" Text="Contact Us"
                PostBackUrl="~/ContactUs.aspx" />
            </td>
          </tr>
        </table>
```

Home.aspx

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

public partial class Home : System.Web.UI.Page
{
   DS_STAFF.StaffMST_SELECTDataTable StaffDT = new
DS_STAFF.StaffMST_SELECTDataTable();
   DS_STAFFTableAdapters.StaffMST_SELECTTableAdapter StaffAdapter = new
DS_STAFFTableAdapters.StaffMST_SELECTTableAdapter();

   DS_STUDENT.StudentMst_SELECTDataTable StuDT = new
DS_STUDENT.StudentMst_SELECTDataTable();
   DS_STUDENTTableAdapters.StudentMst_SELECTTableAdapter StuAdapter = new
DS_STUDENTTableAdapters.StudentMst_SELECTTableAdapter();

   protected void Page_Load(object sender, EventArgs e)
```

```
    {
        lblstafferror.Text = "";
        lblstuerror.Text = "";
    }
    protected void btnstafflogin_Click(object sender, EventArgs e)
    {
        StaffDT = StaffAdapter.Select_LOGIN(txtstaffuname.Text, txtstaffpass.Text);
        if (StaffDT.Rows.Count == 1)
        {
            Session["uname"] = txtstaffuname.Text;
            Response.Redirect("Staff/Default.aspx");



        }
        else
        {
            lblstafferror.Text = "Login Error !!";
        }
}
    protected void btnstudenlogin_Click(object sender, EventArgs e)
    {
        StuDT = StuAdapter.Select_LOGIN(txtstuuname.Text, txtstupass.Text);
        if (StuDT.Rows.Count == 1)
        {
            Session["sname"] = txtstuuname.Text;
            Response.Redirect("Student/Main.aspx");
        }
        else
        {           lblstuerror.Text = "Login Error !!";
        }
    }
}
```

Table Creation in MS SQL:

```
/****** Object:  StoredProcedure [dbo].[StudentMst]    Script Date: 06/15/2020 10:22:44 ******/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE[dbo].[StudentMst]

        [SID][int]IDENTITY(1,1) NOT NULL,
        [ROLLNO] [NVARCHAR](50) NULL,
        [NAME] [NVARCHAR](50) NULL,
        [STDNAME] [NVARCHAR](256) NULL,
        [DIVNAME] [NVARCHAR](256) NULL,
        [EMAIL] [NVARCHAR](256) NULL,
        [MOBILE] [NVARCHAR](256)NULL,
        [DOB] [nvarchar](500)NULL,
        [IMG] [NVARCHAR](256)NULL,
        [ADD] [NVARCHAR](256)NULL,
        [CITY] [NVARCHAR](256)NULL,
        [PIN] [NVARCHAR](256)NULL,
        [UNAME] [NVARCHAR](256)NULL,
        [PASS] [NVARCHAR](256) NULL,

CONSTRAINT [PK_StudentMst] PRIMART KEY CLUSTERED
(
  [SID]ASC
)WITH(PAD_INDEX = OFF,STATISTIC_NORECOMPUTE = OFF,IGNORE_DUP_KEY =
OFF,ALLOW_ROW_LOCKS = ON,ALLOW_PAGE_LOCKS = ON)
)ON [PRIMARY]
GO
```

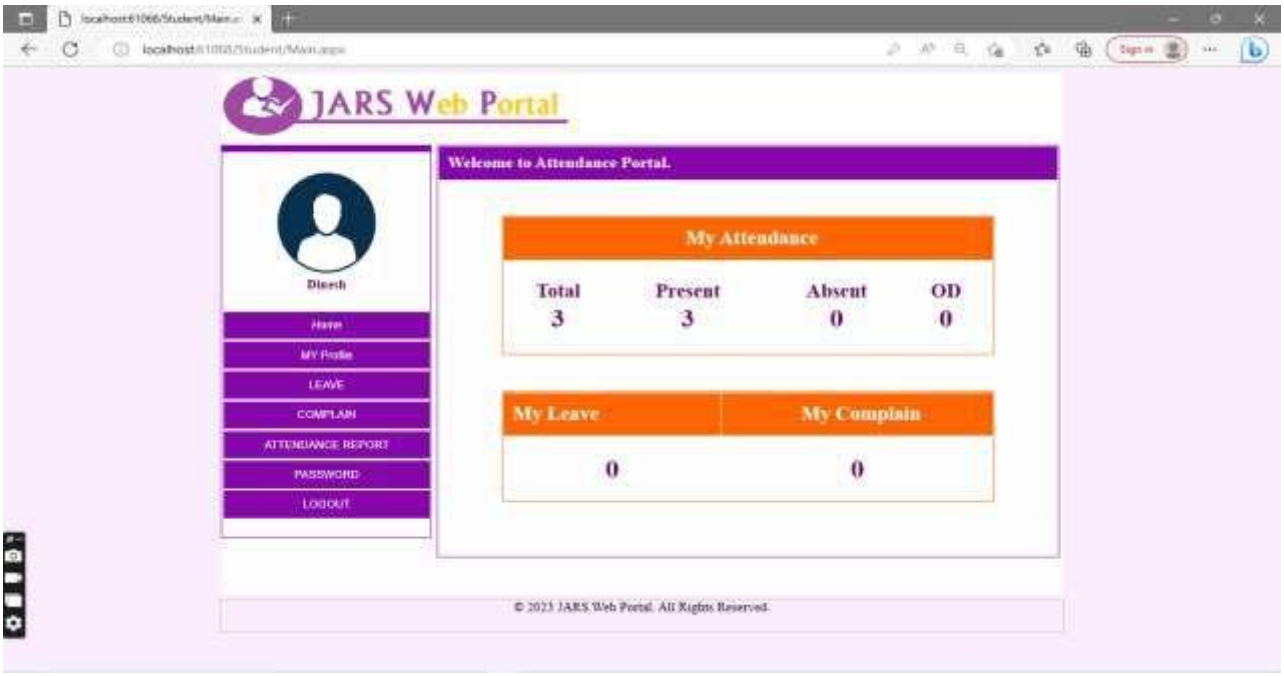
```
/****** Object:  StoredProcedure [dbo].[StaffMst]    Script Date: 06/15/2020 10:22:43 ******/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE[dbo].[StaffMst]( [name]
        [nvarchar](256) NULL, [stdname]
        [nvarchar](256) NULL, [email]
        [nvarchar](256) NULL, [mobile]
        [nvarchar](256) NULL, [image]
        [nvarchar](256) NULL, [qualification]
        [nvarchar](256) NULL, [add]
        [nvarchar](256) NULL,
        [city] [nvarchar](256) NULL,
        [pincode] [nvarchar](256) NULL,
        [uname] [nvarchar](256) NULL,
        [pass] [nvarchar](256) NULL,
        [gender] [nvarchar](256) NULL,
CONSTRAINT [PK_StaffMst] PRIMART KEY CLUSTERED
WITH(PAD_INDEX = OFF,STATISTIC_NORECOMPUTE = OFF,IGNORE_DUP_KEY =
OFF,ALLOW_ROW_LOCKS = ON,ALLOW_PAGE_LOCKS = ON)
)ON [PRIMARY]
GO
/****** Object:  StoredProcedure [dbo].[STDMST]    Script Date: 06/15/2020 10:22:44 ******/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[STDMST]

        [SID] [INT] IDENTITY(1,1) NOT NULL,
```

```
        [SNAME] [NVARCHAR](256) NULL,
CONSTRAINT [PK_STDMST] PRIMART KEY CLUSTERED
(
  [SID]ASC
)WITH(PAD_INDEX = OFF,STATISTIC_NORECOMPUTE = OFF,IGNORE_DUP_KEY =
OFF,ALLOW_ROW_LOCKS = ON,ALLOW_PAGE_LOCKS = ON)
)ON [PRIMARY]
GO
/****** Object:  StoredProcedure [dbo].[LeaveMst]    Script Date: 06/15/2020 10:22:43 ******/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
 CREATE TABLE [dbo].[LeaveMst]
         [LID][int] IDENTITY(1,1) NOT NULL,
        [rollno] [NVARCHAR(256),
        [name] [NVARCHAR(256),
        [sname] [nvarchar(256),
        [message] [nvarchar(256),
        [nodays]  [int]IDENTITY(1,1) NOT NULL,
        [replay] [nvarchar](50) NULL,
CONSTRAINT [PK_LeaveMST] PRIMART KEY CLUSTERED
(
  [LID]ASC
)WITH(PAD_INDEX = OFF,STATISTIC_NORECOMPUTE = OFF,IGNORE_DUP_KEY =
OFF,ALLOW_ROW_LOCKS = ON,ALLOW_PAGE_LOCKS = ON)
)ON [PRIMARY]
GO
```

6.2.2 Output Screenshot


JARS Web Portal
LogOut
My Profile
Name : Sathiyaraj
Branch : III CSE
Welcome Sathiyaraj
Home
ADD STUDENT
STUDENTS LIST
DAILY ATTENDANCE
ATTENDANCE REPORT
STUDENT DETAILS
COMPLAIN
LEAVE
PASSWORD
© 2023 JARS WEB PORTAL. All Rights Reserved.


JARS Web Portal
LogOut
ADD ATTENDANCE
Welcome Sathiyaraj
Home
ADD STUDENT
STUDENTS LIST
DAILY ATTENDANCE
ATTENDANCE REPORT
STUDENT DETAILS
COMPLAIN
LEAVE
PASSWORD
© 2023 JARS WEB PORTAL. All Rights Reserved.


JARS Web Portal
Welcome to Attendance Portal.
Dinesh
Home
MY Profile
LEAVE
COMPLAIN
ATTENDANCE REPORT
PASSWORD
LOGOUT
My Attendance
Total
3
Present
3
Absent
0
OD
0
My Leave
My Complain
0
0
© 2023 JARS Web Portal. All Rights Reserved.

REFERENCES

Books References

- Introducing Microsoft .NET, Second Edition author David S. Platt.
- Joe Mayo, "**Microsoft Visual Studio 2010: A Beginner's Guide"**, Tata McGraw Hill, 2010.
- Alex Mackey, **"Introducing .NET 4.0: With Visual Studio 2010"**, Press, USA, 2010.

WEBSITES

https://www.meeraacadamy.com

http://www.msdn.net/

http://msdn.microsoft.com/en-us/library/orm-9780596518455-02.aspx

https://www.w3schools.com/asp.net/

http://www.cramerz.com/aspdotnet

http://www.dotnetspider.net/

http://www.stackoverflow.com

https://www.codeproject.com