

PARSHVANATH CHARITABLE TRUST'S
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Department of Computer Engineering

CSL605 SKILL BASED LAB COURSE: CLOUD COMPUTING

Mini Project Report

- **Title of Project: Employee Leave Management System**
- **Year and Semester: T.E. (Sem VI)**
- **Group Members Name and Roll No:**
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 - Varshil Shah..... (63)**
 - Jainam Zaveri.... (77)**

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Chapter 1:

1. Problem Definition

In the existing paperwork related to leaving management. Leaves are maintained using the attendance register for the staff. An employee needs to submit their leaves manually to their respective authorities or department, this increases paperwork and maintaining the paperwork becomes a tedious exercise. Employees find it difficult to apply for leaves and vacations, especially those that have tasks that require a specific number of people to operate which is a very complicated process.

First of all, there should be a way to determine if a specific employee has legitimate leave days to use. Second, leaves should be scheduled in a way that the normal operations of the business are not impaired. Finally, the personal views and emotions of the employee that is taking the leave as well as the atmosphere in the department he or she is leaving should be considered to foster cooperation and goodwill instead of anger and conflicts.

Chapter 2:

2. Introduction

The "Employee Leave Management System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. Employee Leave Management System, as described above, can lead to error free, secure, reliable and fast management system.

It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. Every Employee Leave Management System has different Employee needs; therefore, we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times.

This software project was mostly built utilizing the powerful coding tools of HTML, CSS, and PHP on the front end, and Microsoft SQL Server on the back end. The software is extremely user-friendly, which is a big feature. Some AWS features and tools are used in the development of this project, which is rather significant.

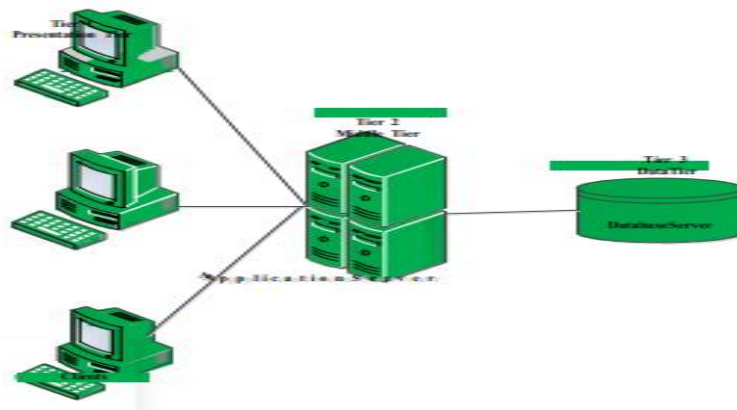
Chapter 3:

3. Description

In the beginning, key data has been extracted from a detailed description of the current Leave Management System as a whole, and then potential problems in the current system have been identified. Next, proposed system has been elaborated and after that the goal of the project has been established to provide better data reliability, more automation and less effort.

3.1 Methodologies used:

Employee leave management system is designed using three tier architecture model because of its performance, horizontal scalability and each part of the tier can be developed concurrently by different programmers, coding with different programming languages. The three-tier architecture runs on client/server model and the web server. Tier one also known as presentation tier consists of the client, display the Graphical User interface (GUI) designed using Hyper Text Markup language (HTML), Cascading Style Sheet (CSS) and Java script. Further the project was deployed on AWS using Some Aws Services.



3.2 Software Requirements:

Notepad ++: Notepad++ is a text and source code editor for use with Microsoft Windows.

Visual Studio Code: Visual Studio Code, also commonly referred to as VS Code, is a source-code editor made by Microsoft for Windows, Linux and macOS.

Xampp: XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages.

Aws Services: Amazon Web Services, Inc. is a subsidiary of Amazon providing on-demand cloud computing platforms and APIs to individuals, companies, and governments, on a metered pay-as-you-go basis.

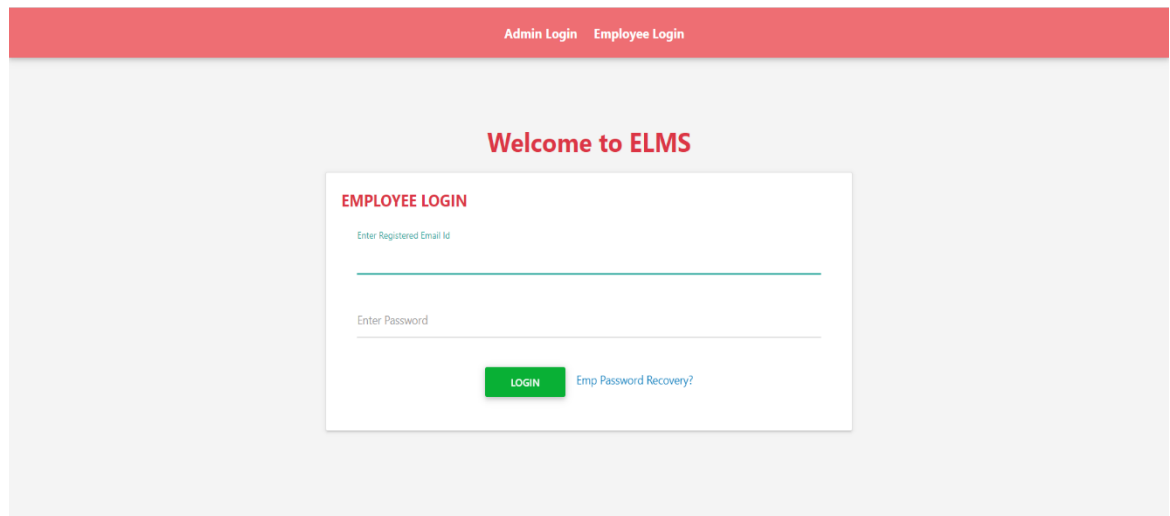
Chapter 4:

4. Implementation

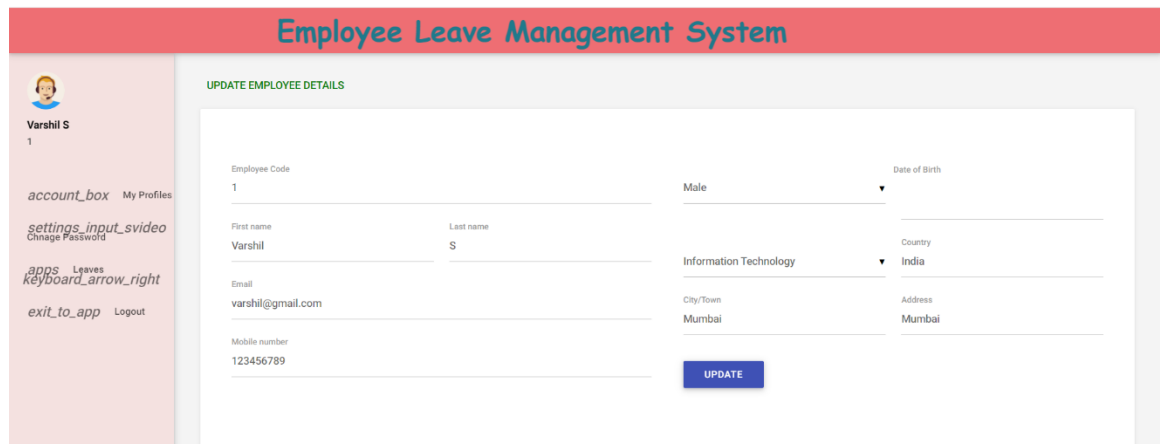
Output:

1) EMPLOYEE SIDE LOGIN

Employee login allows employee to update profile , apply leave , check leave history and logout to the system.




The screenshot shows the 'Employee Login' form within the ELMS system. At the top, a red header bar contains 'Admin Login' and 'Employee Login' links. Below this, a red banner reads 'Welcome to ELMS'. The main form is titled 'EMPLOYEE LOGIN' and contains two input fields: 'Enter Registered Email Id' and 'Enter Password'. A green 'LOGIN' button is positioned below the password field, with a link for 'Emp Password Recovery?' next to it.



The screenshot displays the 'UPDATE EMPLOYEE DETAILS' form. A red header bar at the top reads 'Employee Leave Management System'. On the left, a sidebar shows the user's profile: 'Varshil S' with a user ID of '1', and navigation links for 'account_box My Profiles', 'settings_input_svideo Change Password', 'apps Leaves', 'keyboard_arrow_right', and 'exit_to_app Logout'. The main form area is titled 'UPDATE EMPLOYEE DETAILS' and contains several input fields: 'Employee Code' (1), 'First name' (Varshil), 'Last name' (S), 'Email' (varshil@gmail.com), 'Mobile number' (123456789), 'Gender' (Male), 'Date of Birth', 'Country' (India), 'Information Technology', 'City/Town' (Mumbai), and 'Address' (Mumbai). A blue 'UPDATE' button is located at the bottom right of the form.

Employee Leave Management System



Varshil S

1

account_box

My Profiles

settings_input_svideo

Change Password

apps

Leaves

keyboard_arrow_right

exit_to_app

Logout

APPLY FOR LEAVE

From Date


To Date

Select leave type...

Description

APPLY

Employee Leave Management System



Varshil S

1

account_box

My Profiles

settings_input_svideo

Change Password

apps

Leaves

keyboard_arrow_right

exit_to_app

Logout

APPLY FOR LEAVE

From Date

To Date

22/02/2022

26/02/2022

Select leave type...


Casual Leave

Medical Leave test

Restricted Holiday(RH)

APPLY

Employee Leave Management System



Varshil S

1

account_box

My Profiles

settings_input_svideo

Change Password

apps

Leaves

keyboard_arrow_right

exit_to_app

Logout

LEAVE HISTORY

Show

Search records

10

Sl No:	Type Of Leave	From	To	Description	Posting Date	Admin Remak	Status
1	Casual Leave	20/04/2022	25/04/2022	I have a family function to attend so please grant my leave application	2022-04-15 12:35:41	Ok as you have your leaves left we approve your leave application. Have a great day at	Approved

Showing 1 to 1 of 1 entries

chevron_left

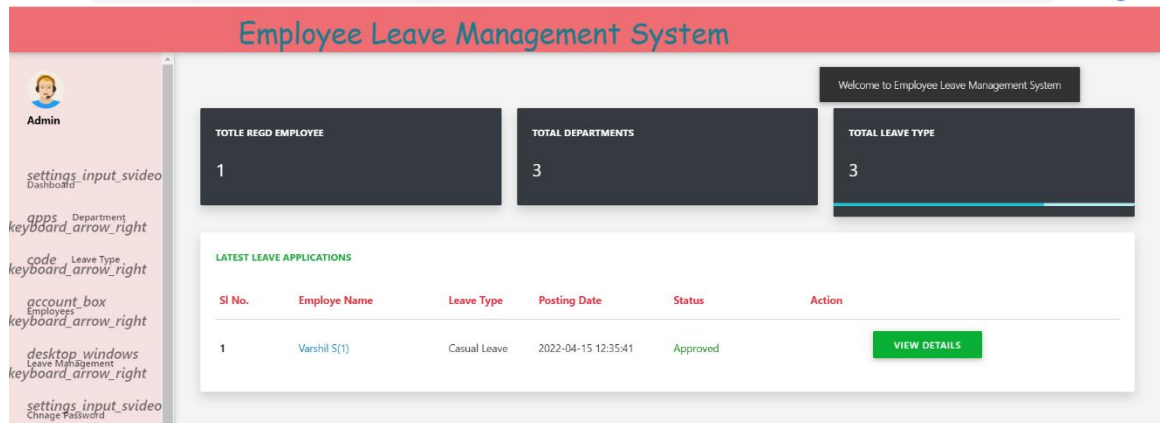
1

chevron_right

6

2) ADMIN SIDE LOGIN:

Admin login allows admin to manage employees information, can accept or reject leave, allows to manage employees department wise, leave management, logout and so on.



The screenshot shows the Admin Dashboard of the Employee Leave Management System. The dashboard includes a sidebar with navigation links and a main content area with summary cards and a table of latest leave applications.

Employee Leave Management System

Welcome to Employee Leave Management System

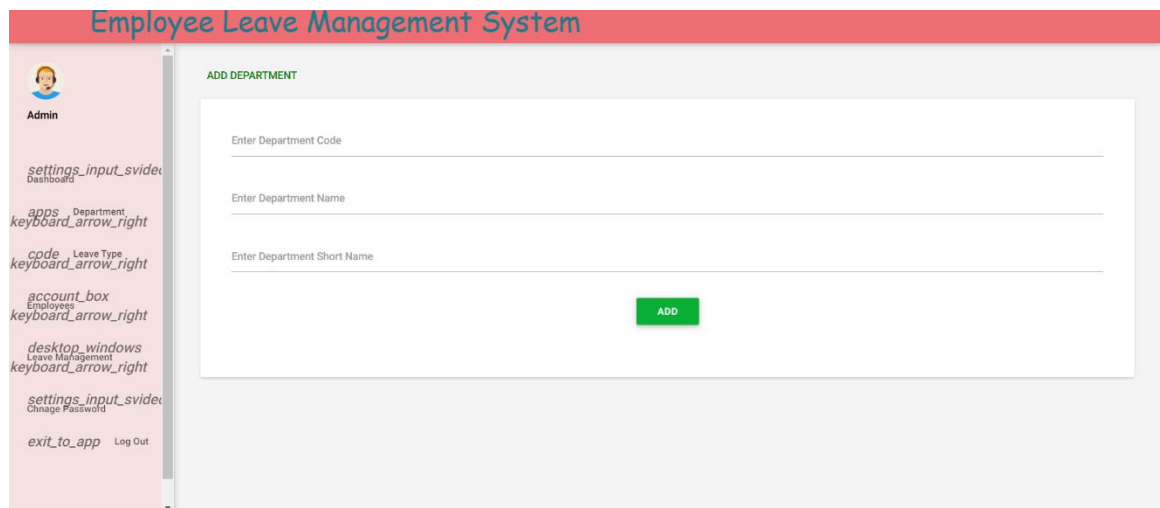
TITLE REGD EMPLOYEE
1

TOTAL DEPARTMENTS
3

TOTAL LEAVE TYPE
3

LATEST LEAVE APPLICATIONS

Sl No.	Employee Name	Leave Type	Posting Date	Status	Action
1	Varshil S(1)	Casual Leave	2022-04-15 12:35:41	Approved	VIEW DETAILS



The screenshot shows the 'ADD DEPARTMENT' form in the Admin Dashboard. The form includes input fields for Department Code, Department Name, and Department Short Name, along with an 'ADD' button.

Employee Leave Management System

ADD DEPARTMENT

Enter Department Code

Enter Department Name


Enter Department Short Name

[ADD](#)

← → ↻ ⚠ Not secure | https://54.144.209.109/elms/elms/admin/addleavetype.php

🔍 ☆ ⚙ 🗖 ?

Employee Leave Management System


Admin

settings_input_svide
Dashboard

apps Department
keyboard_arrow_right

code Leave Type
keyboard_arrow_right

account_box
Employees
keyboard_arrow_right

desktop_windows
Leave Management
keyboard_arrow_right

settings_input_svide
Change Password

exit_to_app Log Out

ADD LEAVE TYPE

Leave Type

Description

ADD

Chapter 5:

5. Learning Outcomes

Nowadays, companies or organizations aim to fully optimize their potential to efficiently manage different aspect of the business in order for them to achieve their goals. The study showed that the developed Employee Leave Management System met the need of the respondents and its intended users. The result showed that the majority of the respondents and intended users found that the manual method of managing the employee leave applications should be eliminated and replaced with a more advance system which will automate the whole process.

The cloud solution using AWS tools for developing an Employee Leave Management System brings to bare great benefits in managing Human Resource operations. It will help them to overcome high cost of developing, deploying and maintaining technology infrastructure within the organization. the Employee Leave Management System will provide an effective way of managing the different employee leave requests. The system will eliminate all the problems encountered in the manual method which will help the companies or organization better improve their business operations.

References:

- [1] Manish, S., Prachi, S., Rohil, Shubham, S. and Shiwani, S. (2015). Leave and Payroll Management System. International Conference on Computing and Virtualization, Thakur, India.
- [2] Hridita, A. (2018). Employee leave Management System in Metlife Bangladesh. An Intenship Report on Meltlife.
- [3][342815048_EMPLOYEE_LEAVE_MANAGEMENT_SYSTEM/link/617dd2703c987366c3094c7a](#)