VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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A Mini Project Report on

"Employee Leave Management System"

Submitted in partial fulfillment of the requirements as a part of the Web Technology and its Application Laboratory for the award of degree of

Bachelor of Engineering

in

Computer Science and Engineering

Submitted by

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CERTIFICATE

This is to certify that the mini project report entitled "Employee Leave Management System" has been successfully completed by Tushar Kumbar (2KL17CS111), Md Sohail Sanadi (2KL17CS108), in partial fulfillment of the requirements as a part of the Web Technology and it's Applications Laboratory for the award of the degree of Bachelor of Engineering in Computer Science and Engineering under Visvesvaraya Technological University, Belagavi during academic year 2020 – 2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements as a part of Web Technology and its application for the said degree.

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		External Viva		
	Name of the Examiners		Signature with date	
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I have taken efforts of this project. However, it's would have not been possible with the kind support and help of many individuals and organizations. I would like extended my sincere thanks to all of them.

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ABSTRACT

The purpose of Employee Leave Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with. 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. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information. The aim is to automate its existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage and maintain the record of applying and approving the leaves in the organisation .

INTRODUCTION

The "Employee Leave Management System" has been developed to override the problems prevailing in the practicing manual system. In this system we will be giving admin the privilege to add or remove employees and approve or reject the leave demands of the employee, also the employee can update his/her profile and apply for leaves. 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. 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 organization, whether big or small, has challenges to overcome and managing the information of Leaves and Employees. 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. These systems will ultimately allow you to better manage resources.

SYSTEM ANALYSIS

2.1 Scope of the Project

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Employee Leave Management System. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

2.2 Aim of Project

Our project aims at Business process automation, i.e. we have tried to computerize various processes of Employee Leave Management System.

- In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
- In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
- To assist the staff in capturing the effort spent on their respective working areas.
- To utilize resources in an efficient manner by increasing their productivity through automation.

2.3 Hardware and Software Requirement

2.3.1 Hardware Configuration

Processor : Intel i3 and above or equivalent

Processor Speed : 250MHz to 833MHz

RAM : 512MB RAM

Hard Disk : 2GB

2.3.2 Software Configuration

Operating System : Windows 7

Database : MySql Server

Server side scripting : PHP

Client side scripting : JAVASCRPT

SYSTEM DESIGN

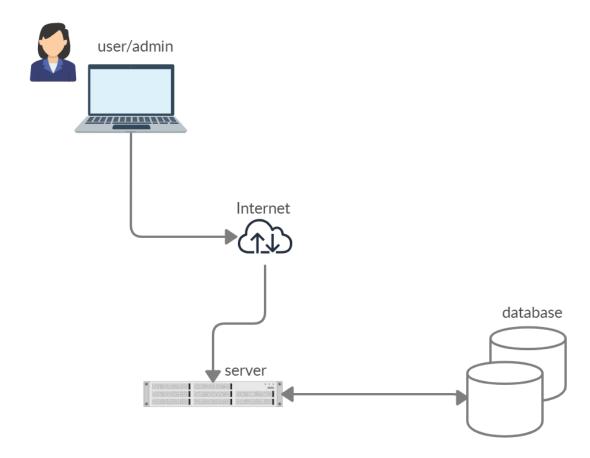
3.1 System Perspective:

System analysis will be performed to determine if it is feasible to design information based on policies and plans of the organization and on user requirements and to eliminate the weaknesses of the present system.

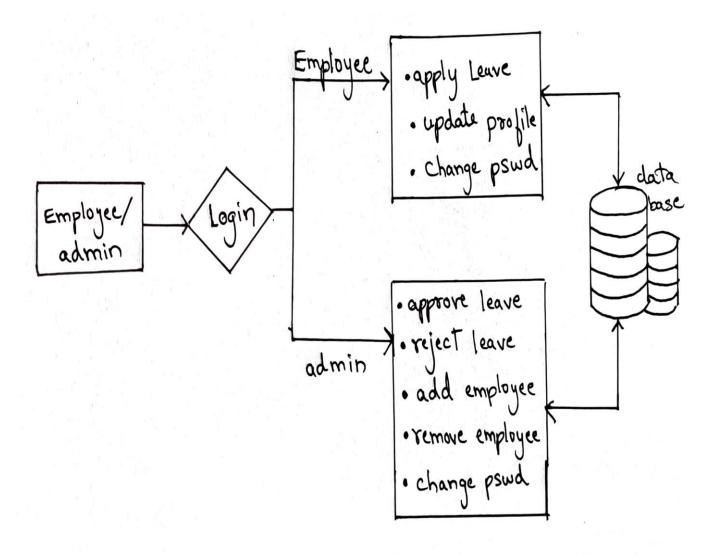
- The new system should be cost effective.
- To augment management, improve productivity and services.
- To enhance user / system interface.
- To improve information qualify and usability.

To upgrade systems reliability, availability, flexibility and growth potential

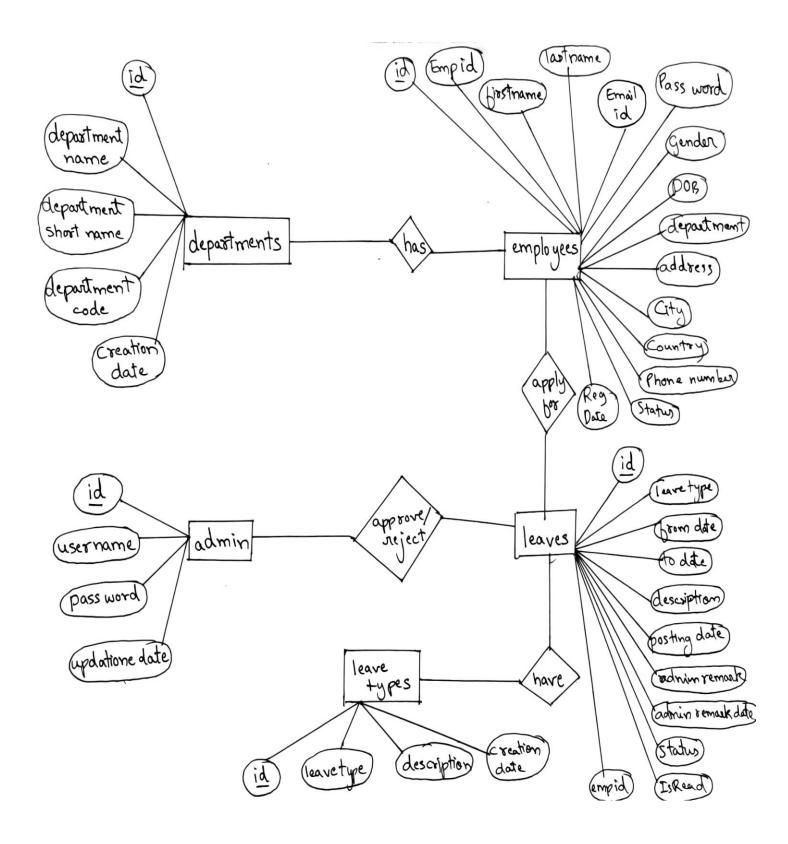
3.1.1 Architecture Diagram



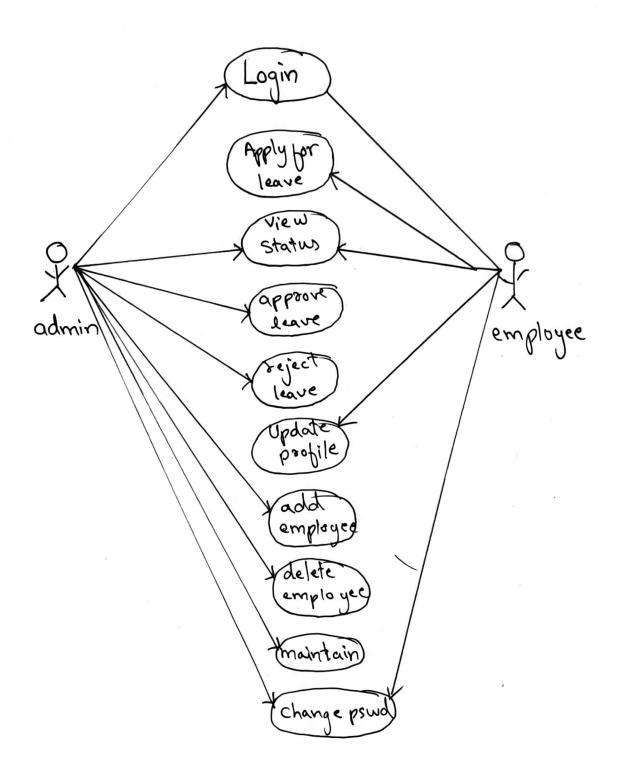
3.1.2 Data flow Diagram



3.1.3 ER-Diagram



3.1.4 Use Case Diagrams



IMPLEMENATION

4.1 Discussion of code segment

```
index.php
<?php
session_start();
error_reporting(0);
include('includes/config.php');
if(isset($_POST['signin']))
{
$uname=$_POST['username'];
$password=$_POST['password'];
$sql ="SELECT EmailId, Password, Status, id FROM tblemployees WHERE EmailId=:uname
and Password=:password";
$query= $dbh -> prepare($sql);
$query-> bindParam(':uname', $uname, PDO::PARAM_STR);
$query-> bindParam(':password', $password, PDO::PARAM_STR);
$query-> execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if(\text{query-}>rowCount()>0)
{
foreach ($results as $result) {
  $status=$result->Status;
  $_SESSION['eid']=$result->id;
 }
if(status==0)
$msg="Your account is Inactive. Please contact admin";
} else{
$_SESSION['emplogin']=$_POST['username'];
echo "<script type='text/javascript'> document.location = 'emp-changepassword.php';
```

```
</script>";
} }
else{
 echo "<script>alert('Invalid Details');</script>";
}
?>
<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Title -->
    <title>ELMS | Home Page</title>
    <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css">
    <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-</pre>
scale=1.0. user-scalable=no"/>
    <meta charset="UTF-8">
    <meta name="description" content="Responsive Admin Dashboard Template" />
    <meta name="keywords" content="admin,dashboard" />
    <meta name="author" content="Steelcoders" />
    <!-- Styles -->
    <link type="text/css" rel="stylesheet"</pre>
href="assets/plugins/materialize/css/materialize.css"/>
       <link href="assets/css/materialdesign.css" rel="stylesheet">
    k href="assets/plugins/material-preloader/css/materialPreloader.min.css"
rel="stylesheet">
    <!-- Theme Styles -->
    k href="assets/css/alpha.min.css" rel="stylesheet" type="text/css"/>
    k href="assets/css/style.css" rel="stylesheet" type="text/css"/>
  </head>
  <body>
         <nav class="navbar navbar-expand-lg navbar-light py-3">
      <button class="navbar-toggler" type="button" data-toggle="collapse" data-
```

```
target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria-
expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse d-flex justify-content-center align-items-center"</pre>
id="navbarNavAltMarkup">
      <div class="navbar-nav d-flex justify-content-center align-items-center">
       <a class="nav-item text-white font-weight-bold nav-link ml-3" href="admin/">Admin
Login</a>
       <a class="nav-item text-white font-weight-bold nav-link ml-3"
href="index.php">Employee Login</a>
      </div>
      </div>
    </nav>
       <main class="mn-inner mt-5">
         <div class="row d-flex justify-content-center align-items-center">
    <h4 class="font-weight-bold text-center text-danger">Welcome to ELMS</h4>
            <div class="col-md-12">
              <div class="row">
       <div class="col-md-3"></div>
               <div class="col-md-6 d-flex justify-content-center align-items-center">
                  <div class="card white darken-1">
                    <div class="card-content">
                      <span class="card-title text-danger" style="font-</pre>
size:20px;">Employee Login</span>
                        <?php if($msg){?}><div
class="errorWrap"><strong>Error</strong> : <?php echo htmlentities($msg); ?>
</div><?php }?>
                       <div class="row">
                         <form class="col col-md-12" name="signin" method="post">
                            <div class="input-field col s12">
                              <input id="username" type="text" name="username"</pre>
class="validate" autocomplete="off" required >
                              <label for="email">Enter Registered Email Id</label>
```

```
</div>
                            <div class="input-field col col-md-12">
                               <input id="password" type="password" class="validate"
name="password" autocomplete="off" required>
                               <label for="password">Enter Password</label>
                            </div>
                            <div class="col col-md-12 center m-t-sm">
                               <input type="submit" name="signin" value="Login" class="</pre>
waves-effect waves-light btn ">
                              <a class="waves-effect waves-grey" href="forgot-
password.php" style="margin-bottom: 10px; margin-left: 10px;">Emp Password
Recovery?</a>
                            </div>
                          </form>
                       </div>
                    </div>
                  </div>
               </div>
        <div class="col-md-3"></div>
        </div>
            </div>
         </div>
       </main>
    <!-- Javascripts -->
    <script src="assets/plugins/jquery/jquery-2.2.0.min.js"></script>
    <script src="assets/plugins/materialize/js/materialize.min.js"></script>
    <script src="assets/plugins/material-preloader/js/materialPreloader.min.js"></script>
    <script src="assets/plugins/jquery-blockui/jquery.blockui.js"></script>
    <script src="assets/js/alpha.min.js"></script>
  </body>
</html>
```

4.2 Database connection

A database management, or DBMS, gives the user access to their data and helps them transform the data into information. Such database management systems include dBase, paradox, IMS, Sql Server and SQL Server. These systems allow users to create, update and extract information from their database.

A database is a structured collection of data. Data refers to the characteristics of people, things and events. SQL Server stores each data item in its own fields. In SQL Server, the fields relating to a particular person, thing or event are bundled together to form a single complete unit of data, called a record (it can also be referred to as raw or an occurrence). Each record is made up of a number of fields. No two fields in a record can have the same field name.

4.3 Modules explanation

HTML

(Hyper Text Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content."Hypertext" refers to links that connect web pages to one another, either within a single website or between websites. HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as <footer>, <article>, <section>, , <div>, , , <aside>, <audio>, <canvas>, <datalist>, <details>, <embed>, <nav>, <output>, , , <video>, , , and many others.

CSS

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

CSS handles the look and feel part of a web page. Using CSS, you can control the colour of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects.

PHP

Hypertext Preprocessor (or simply PHP) is a general-purpose programming language originally designed for web development. PHP code may be executed with a command line interface (CLI), embedded into HTML code, or used in combination with various web template systems, web content management systems, and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in a web server or as a Common Gateway Interface (CGI) executable.

JAVASCRIPT

JavaScript is used for relatively simple functions such as popping up new windows, or checking the information you type into a form to make sure it conforms to what the receiving database expects. So, for example, it will make sure that you have filled in all the required information or that the postcode you've typed in is complete. Many people disable JavaScript in their browsers because it can pose security risks. But some websites, especially social networking sites like Facebook, will not work as well.

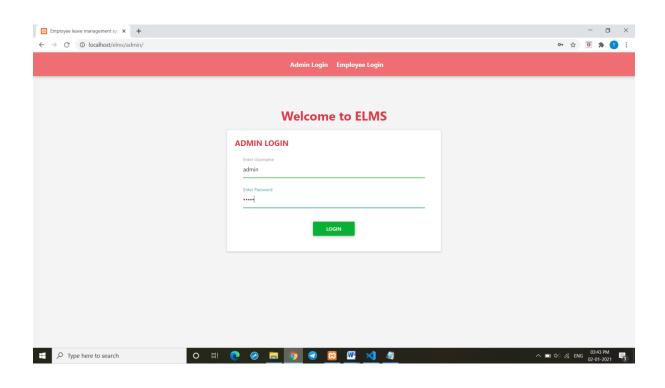
4.4 Software Testing

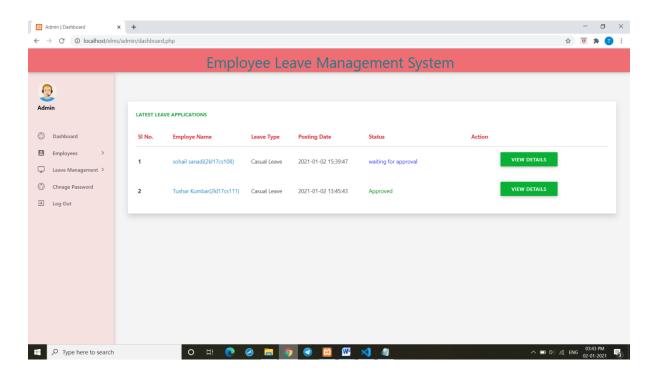
The testing done here was System Testing—checking whether the user requirements were satisfied. The code for the new system has been written completely using JSP as the coding language, HTML as the interface for front-end designing and Java Script for validating the client-side applications. The new system has been tested well with the help of the users and all the applications have been verified from every nook and corner of the user.

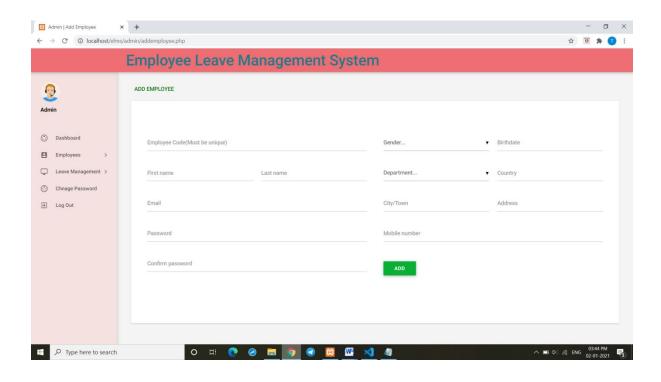
Although some applications were found to be erroneous these applications have been corrected before being implemented. The flow of the forms has been found to be very much in accordance with the actual flow of data.

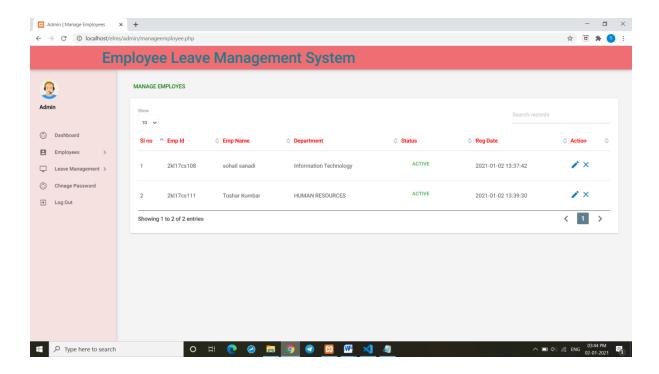
DISCUSSION OF THE RESULTS

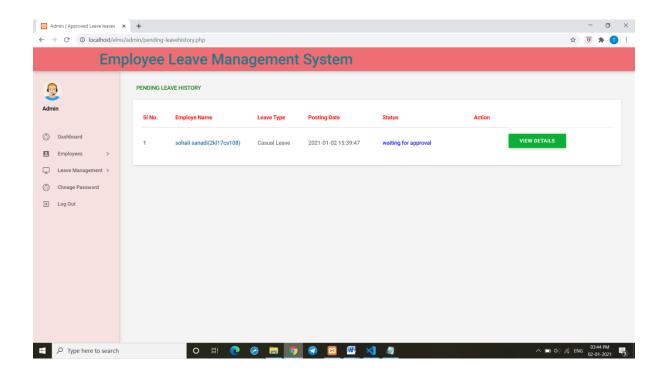
5.1 Screen Shots

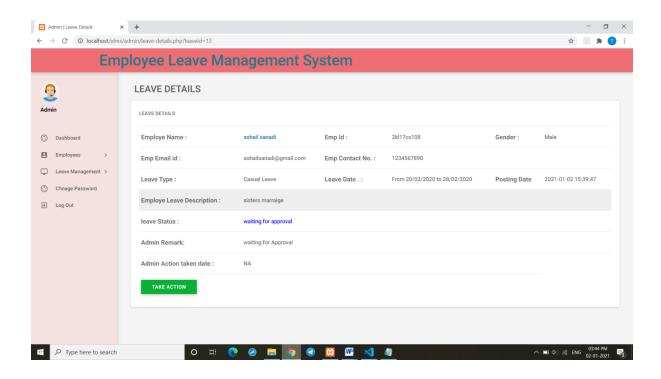


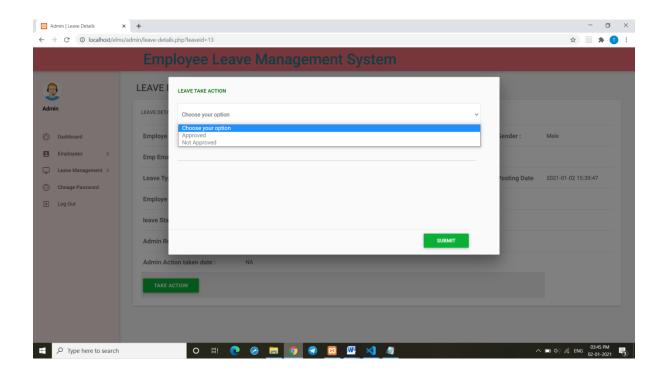


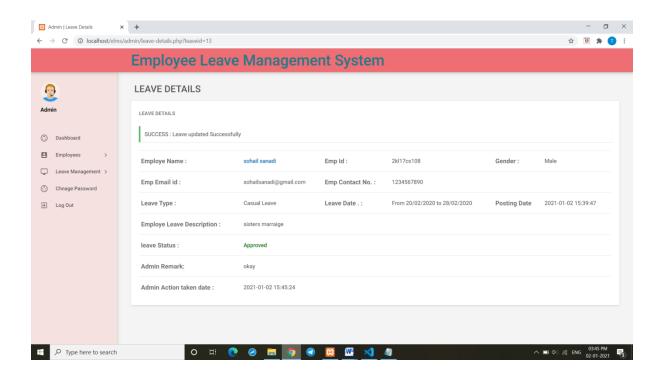


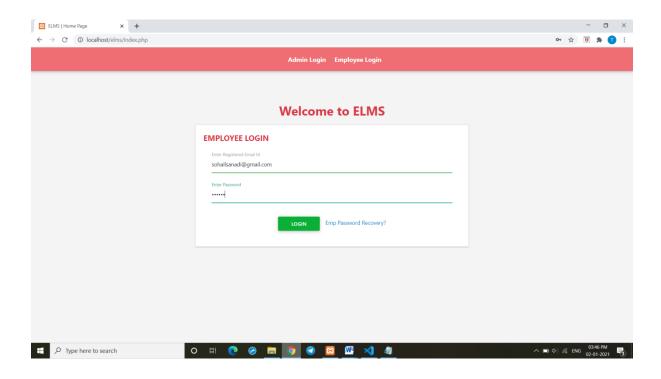


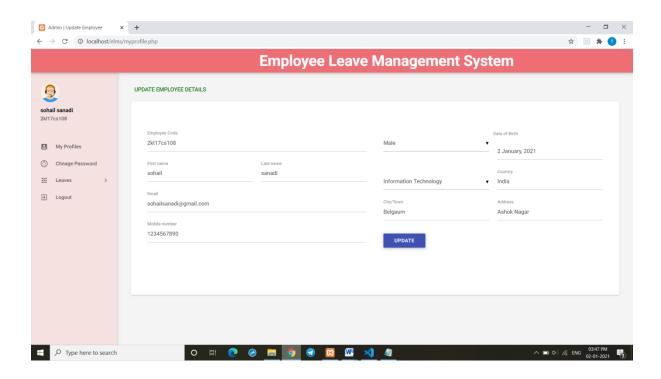


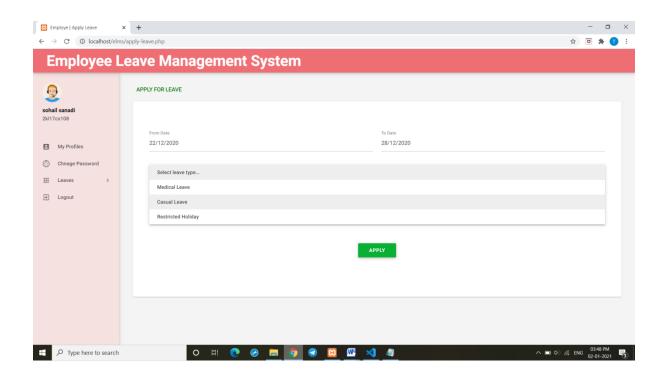


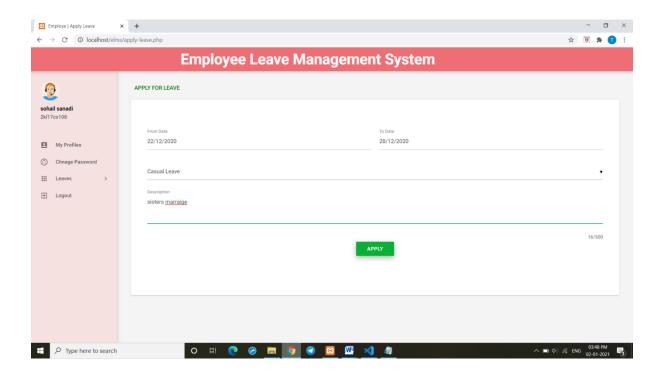


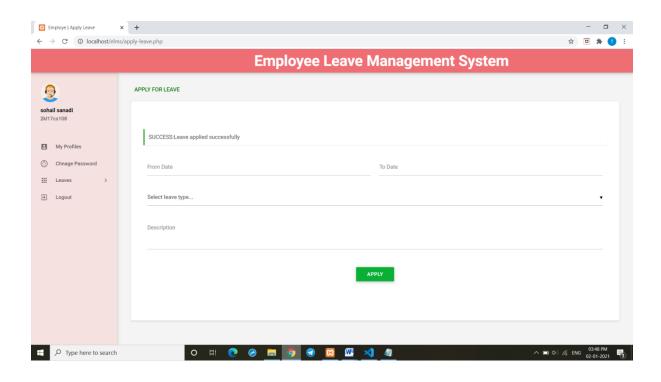


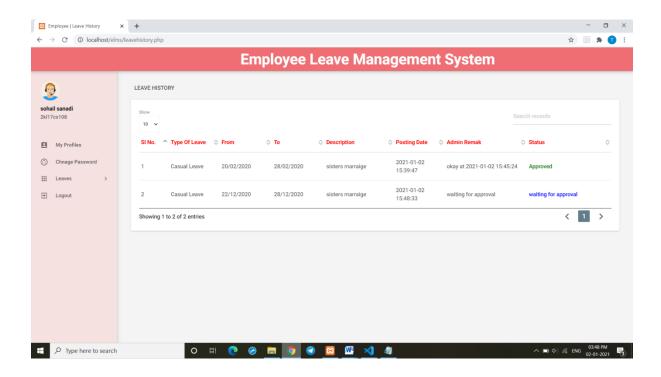












CONCLUSION

The proposed Leave Management System will make the wholele avemanagement process efficient. Users will be able to know their leave status. The employees may be applying for leave from their home as well. This supporting software will help the management decision making in case of leave related affairs. More over, it will ensure less paper works and as a result the whole process will be swift and reliable.

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