IBM CAREER EDUCATION

MAIN PROJECT

DOMAIN NAME: JAVA

Leave Approval System

Submitted By,

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II Year – (BDA) 'B' Section

SEMESTER- 3RD

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<u>UNDER THE GUIDANCE OF AND SUBMITTED TO</u>,

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IBM Software Technical Trainer

<u>INDEX</u>

CERTIFICATE

This is to Certify that the project report entitled <u>Leave Approval System</u> **is completed by Harsh Wani of semester 3-B as per the requirements of IBM CAREER EDUCATION during session 2019-2020. (2nd Year)**

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Student's Signature   **IBM Trainer Signature**

_____

HoD Signature

CERTIFICATE

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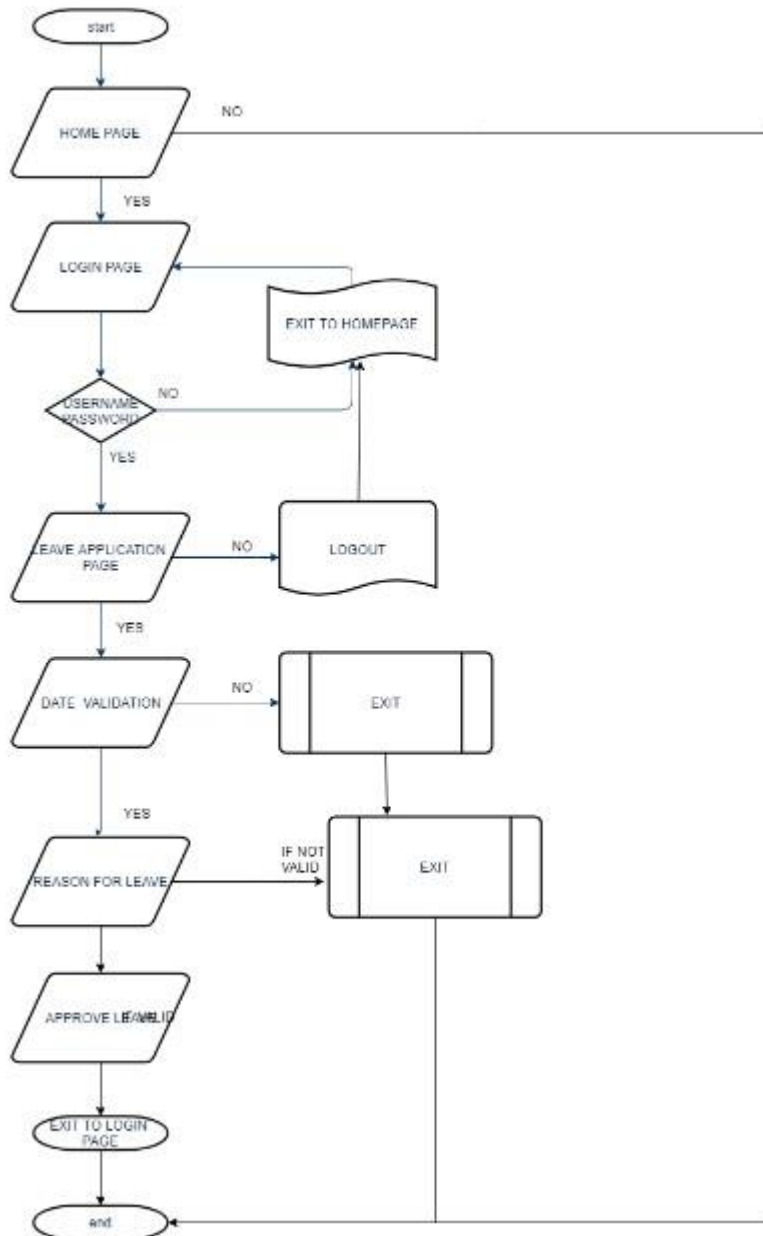**Student's Signature**   **IBM Trainer Signature**

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HoD Signature

FLOWCHART

Software Specifications

- OPERATING SYSTEM : Windows 10

- ENVIRONMENT : JRE

- PROGRAMMING : JAVA

  LANGUAGE

- DOCUMENTATION : MICROSOFT WORD

Hardware Specifications

- PROCESSOR : INTEL CORE i3
  7th generation
- RAM : 8GB MB
- MONITOR : 14" COLOR
- HARD DISK : -----
- FLOPPY DRIVE : -----

INTRODUCTION:

. The online leave approval system is used to automate the work flow of leave applications and their approvals.

. It mainly deals with details of all staffs both teaching and non-teaching staffs of various departments and also their leave maintenance

. Online staff leave management will be implemented using responsive media design technique that makes web page look good on all devices.

DESCRIPTION:

. Home Page

. Login Page – where user can login with its username and password.

. Description for the leave.

. How many days for leave?

. If the leave is more than 3 days then the leave will be automatically cancelled.

. Or else Leave confirmation message will be displayed.

. Logout

ADVANTAGES:

. Ease of use:

Leave management systems make the process much easier to manage. You can be anywhere in the world with an Internet connection and get a clear overview of who is working and who is not at any given moment, without having to open any books or spreadsheets.

. Simple Leave Policies:

Leave policies can be configured as per leave guidelines of the organisation. We have programmed everything in a step by step process which makes it very easy for HR managers to create these policies.

. Maintain accuracy:

Automating employee leave calculations eliminates errors and ensures that even the most complex leave rules are implemented with precision and ease.

DISADVANTAGES:

. Security concerns:

Security is one of the biggest worries. Systems must be designed to prevent unauthorized access to sensitive and confidential data and also the unintended publication of such information. .

Expensive:

Then there is the cost factor. Especially for smaller companies, this can pose a problem. With any system, there are acquisition costs and maintenance costs.

Leave Approval System

OBJECTIVE:

.To automate the leave management in educational institutes and many other companies. To decrease the paperwork and enable the process with efficient, reliable record maintenance by using centralized database.

PROGRAM:

HTML Code :

HOME PAGE

```html
<html>

<head>

<meta charset="UTF-8">

<title>Home page </title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<header>

        <div class="wrapper">

        <div class="logo">

                <img src="HS.JPG" height="100px" width="100px">

        </div>

        <ul class="nav-area">

                <li> <a href="file:///E:/SEM%203/OOP/Project/login.html">Login</a></li>

                <li> <a href="#">About</a></li>

                <li> <a href="#">Services</a></li>

                <li> <a href="#">Contact</a></li>

        </ul>

</div>

<div class="welcome-text">

        <h1> HS Corporation Pvt. Ltd.  </h1>




</header>

</body>
```

</html>

OUTPUT SCREENSHOT:

LOGIN FORM

```html
<html>
    <head>
        <meta charset='utf-8'>
        <title>Login Form </title>
        <link rel ="Stylesheet"href="class.css">
    <body>
    <div class = "login-box">
        <h1>Login</h1>
        <div class="textbox">
            <input type ="text" placeholder="Username" name="" value="">
        </div>


        <div class="textbox">
```

```
                    <input type="password" placeholder="Password" name="" value=""
>

            </div>


            <input class="btn" type="button" name="" value="Sign in">
        </div>
            </link>

        </head>
</html>
```

OUTPUT SCREENSHOT:
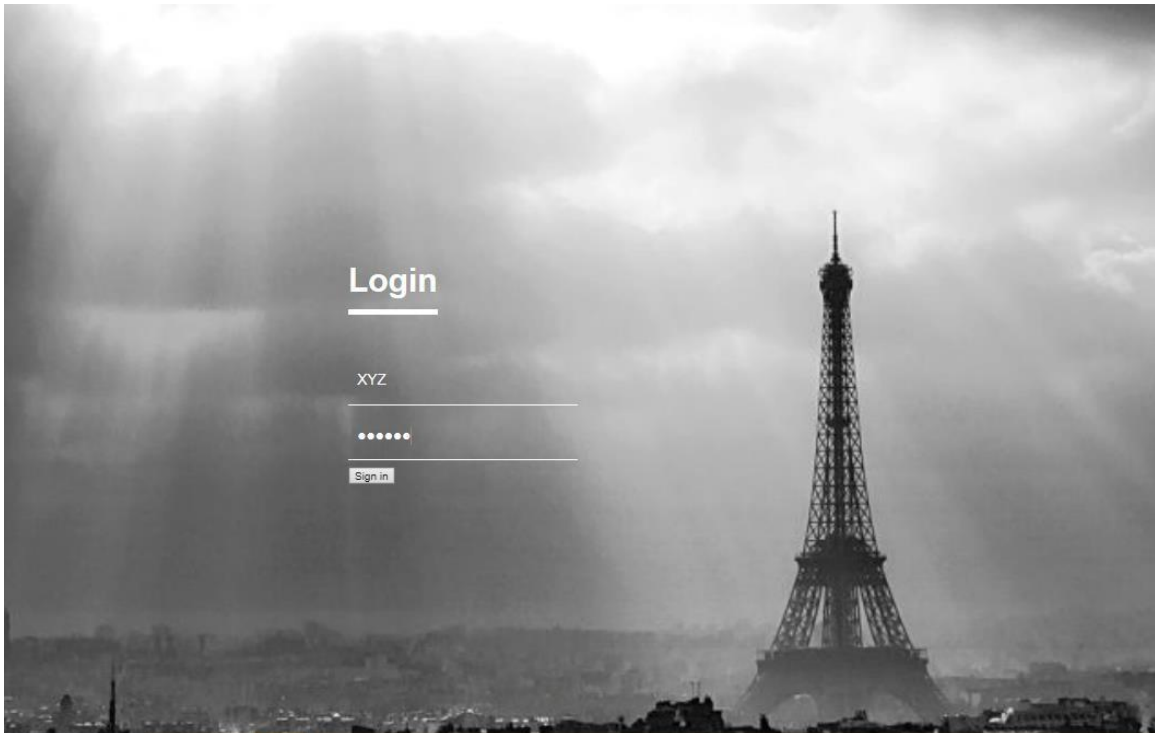
JAVA Code :

```java
import java.util.*; import
java.time.*; public class
Project
{
        Scanner sc1=new Scanner(System.in);
        static
        {
 System.out.println("\n\n\t\t\t\t\t\t\t#################### LEAVE APPROVAL SYSTEM
####################");
        }
        public void homepage()
        {
                int a;
        System.out.println("\n\n\t\t\t\t\t\t\t**************** HOME PAGE
****************");
                System.out.println("\n\t\t\t\t\t\t\t\t------------");
                System.out.println("\t\t\t\t\t\t\t\t| 1. LOGIN |");
                System.out.println("\n\t\t\t\t\t\t\t\t| 2. EXIT  |");
            System.out.println("\t\t\t\t\t\t\t\t------------");
    System.out.print("\n\t\t\t\t\t\tEnter Choice : ");
    a=sc1.nextInt();                switch(a)
                {
                        case 1 : loginpage();
                                break;
                        case 2 : System.exit(0);
                                break;
                        default : System.out.println("\t\t\t\t\t\t\t\tWrong Choice! Program
Terminated.");
                                System.exit(0);
                }
```

```java
        }
    Scanner sc2=new Scanner(System.in);    public
void loginpage()
        {
                int b;
                String username,password;
                System.out.println("\n\n\t\t\t\t\t\t\t**************** LOGIN PAGE
****************");
                System.out.print("\n\n\t\t\t\t\t\t\tEnter Username : ");
                username=sc2.nextLine();
                System.out.print("\n\t\t\t\t\t\t\tEnter Password : ");
            password=sc2.nextLine();
    if(password.equals(username))
                {
                        System.out.println("\n\n\t\t\t\t\t\t\t\t    Successfully Logged In");
                        System.out.println("\n\t\t\t\t\t\t\t\t-----------------------");
                    System.out.println("\t\t\t\t\t\t\t\t| 1. Leave Application |");
                    System.out.println("\n\t\t\t\t\t\t\t\t| 2. Logout            |");
                System.out.println("\t\t\t\t\t\t\t\t-----------------------");
                System.out.print("\n\t\t\t\t\t\t\tEnter Choice : ");
            b=sc1.nextInt();                        switch(b)
                    {
                        case 1 : leaveapplication();
                                            break;
                    case 2 : homepage();
                                            break;                default :
System.out.println("\n\t\t\t\t\t\t\t\tWrong Choice!
Program Terminated.");
                                        System.exit(0);
                    }

                }
                else
                {
                    System.out.println("\n\n\t\t\t\t\t\t\t\tLog In Failed due to wrong password");
```

```java
                            homepage();

                    }

        }

        public void leaveapplication()

        {

                int day,month,todate,year;

                String reason;

 LocalDate date=LocalDate.now();   int no_of_days;

                System.out.println("\n\n\t\t\t\t\t\t\t***************** LEAVE APPLICATION
PAGE *****************");

                System.out.print("\n\n\t\t\t\t\t\t\tEnter starting date of leave in : ");

                day=sc1.nextInt();

                System.out.print("\n\n\t\t\t\t\t\t\tEnter year of leave : ");

                year=sc1.nextInt();

                System.out.print("\n\n\t\t\t\t\t\t\tEnter the month of leave in : ");

        month=sc1.nextInt();

    if(month > 12)

                                {

                                        return;

                                }

                                else if (year % 4 == 0)

                                {

                                        return;

                                }

                                else if (month == 1 || month == 3 || month == 5 || month ==  7 ||
month ==  8 || month ==  10 || month == 12)

                                        {

                                        if (day == 31)

                                        {

                                                return;

                                        }
```

```java
                else if (day != 31)
                {
                        System.out.println("False.");
                }
        else if (month == 4 || month == 6 || month == 9 || month == 11)
        {
                if (day == 30)
                {
                        return;
                }
                else if (day != 30)
                {
                        System.out.println("False.");
                }

        }
        else if (month == 2)
        {
                if (year % 4 == 0)
                {
                        if (day == 29)
                        {
                                return;
                        }
                        else if (day != 29)
                        {
                                System.out.println("False.");
                        }
                else if (year % 4 != 0)
                {
                        if (day == 28)
                        {
                                return;
                        }
```

```java
                                else if (day != 28)
                                {
                                        System.out.println("False.");
                                }
                        }
                }
            }
            else // Everything checks out
            {
                    System.out.println("True.");
            }
    }
        System.out.print("\n\n\t\t\t\t\t\t\tEnter total number of days for leave : ");
        no_of_days=sc1.nextInt();                    if(no_of_days>3)
            {
  System.out.println("\n\n\t\t\t\t\t\tLeave not approved as it exceeds maximum no of days for
leave : ");
                    System.exit(0);
            }
        System.out.print("\n\n\t\t\t\t\t\t\tEnter reason for leave : "); reason=sc2.nextLine();
            System.out.print("\n\n\t\t\t\t\t\t\tLeave Approved! Enjoy ");
    }    public static void main(String
args[])
    {
        Project ob=new Project();
    ob.homepage();
    }}
```

OUTPUT SCREENSHOTS:

```
#################### LEAVE APPROVAL SYSTEM ####################


        ****************** HOME PAGE ******************

                        ------------
                        | 1. LOGIN |

                        | 2. EXIT  |
                        ------------

        Enter Choice : 1


        ****************** LOGIN PAGE ******************


        Enter Username : xyz

        Enter Password : xyz


                        Successfully Logged In

                        ------------------------
                        | 1. Leave Application |

                        | 2. Logout            |
                        ------------------------

        Enter Choice : 1


        ****************** LEAVE APPLICATION PAGE ******************


        Enter starting date of leave in : 23


        Enter year of leave : 2019


        Enter the month of leave in : 11
```

```
****************** LEAVE APPLICATION PAGE ******************

Enter starting date of leave in : 23

Enter year of leave : 2019

Enter the month of leave in : 11

Enter total number of days for leave : 3

Enter reason for leave : Marriage Ceremony

Leave Approved! Enjoy
```

<u>REFERENCES</u>:

1. <u>www.paysquare.com</u>
2. <u>www.kashipara.com</u>
3. <u>www.zoho.com</u>

<u>CONCLUSION</u>:

. Thus, we conclude that the following project helps the corporation or company to approve the leave (if possible) digitally by just logging in and giving appropriate reason and some other relevant details about it.

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