

# **IBM CAREER EDUCATION**



## **MAIN PROJECT**

### **DOMAIN NAME: JAVA**

# **Leave Approval System**

## **Submitted By,**

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**UNDER THE GUIDANCE OF AND SUBMITTED TO,**

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## **CERTIFICATE**

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

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**Student's Signature  
Signature**

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**IBM Trainer**

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**HOD Signature**

# **CERTIFICATE**

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

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**Student's Signature  
Signature**

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**IBM Trainer**

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**HOD Signature**

## SOFTWARE SPECIFICATIONS

- OPERATING SYSTEM : Windows 10
- ENVIRONMENT : JRE
- PROGRAMMING : JAVA  
LANGUAGE
- DOCUMENTATION : MICROSOFT WORD

## HARDWARE SPECIFICATIONS

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

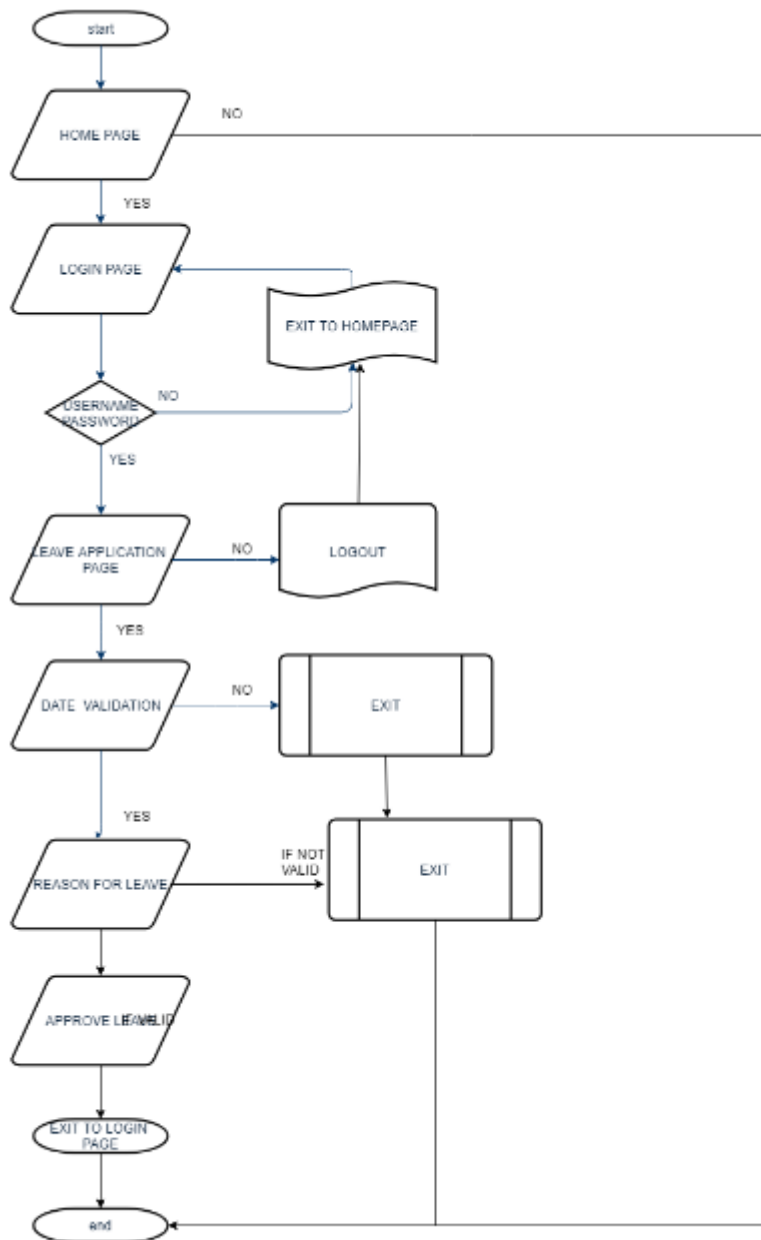
## **INTRODUCTION:**

- . 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

# FLOWCHART





## **Merits:**

### **. 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.

## **Demerits:**

### **. 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>

<head>

<meta charset="UTF-8">

<title>Home page </title>

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

</head>

<body>

<header>

    <div class="wrapper">

        <div class="logo">

        </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>
```

```
  <head>
```

```
    <meta charset='utf-8'>
```

```
    <title>Login Form </title>
```

```
    <link rel = "Stylesheet" href="class.css">
```

```
  <body>
```

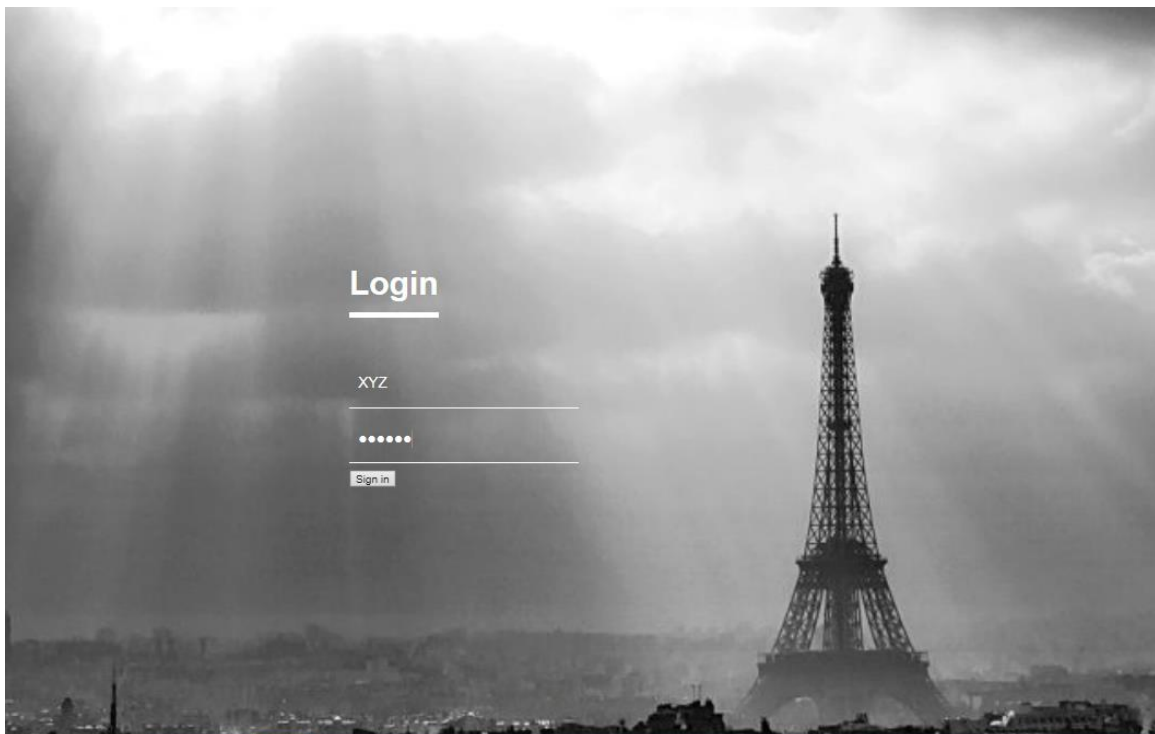
```
    <div class = "login-box">
```

```
<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 :

[illegible]

```

        default : System.out.println("\t\t\t\t\tWrong Choice! Program
Terminated.");

        System.exit(0);

    }

}

Scanner sc2=new Scanner(System.in);

public void loginpage()
{

    int b;

    String username,password;

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

    System.out.print("\n\n\t\t\t\t\tEnter Username : ");

    username=sc2.nextLine();

    System.out.print("\n\t\t\t\t\tEnter Password : ");

    password=sc2.nextLine();

    if(password.equals(username))
    {

        System.out.println("\n\n\t\t\t\t\tSuccessfully Logged In");

        System.out.println("\n\t\t\t\t\t-----");

        System.out.println("\t\t\t\t\t| 1. Leave Application |");

        System.out.println("\n\t\t\t\t\t| 2. Logout      |");

        System.out.println("\t\t\t\t\t-----");

        System.out.print("\n\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\tWrong Choice!
Program Terminated.");

```



```
System.exit(0);
```

$$\}$$

}

else

$$\{$$

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

```
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\t***** LEAVE  
APPLICATION PAGE *****");
```

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

```
day=sc1.nextInt();
```

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

```
year=sc1.nextInt();
```

```
System.out.print("\n\n\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;
        }
        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;
        }
        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\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\tLeave not approved as it exceeds
maximum no of days for leave : ");
    System.exit(0);
}

System.out.print("\n\n\t\t\t\t\tEnter reason for leave : ");

```

```
reason=sc2.nextLine();  
  
System.out.print("\n\\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

## **REFERENCES:**

1. [www.paysquare.com](http://www.paysquare.com)
2. [www.kashipara.com](http://www.kashipara.com)
3. [www.zoho.com](http://www.zoho.com)

## **CONCLUSION:**

**. 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.**