
TECHNICAL Blogging System

Mini-project



Submitted by

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M.C.A (FIFTH Semester)

in

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Submitted To

Dr. Mahendra Sir

CANDIDATE DECLARATION

I hereby declare that the presented in the report entitled '**TECHNICAL BLOGGING SYSTEM**' in java for the fulfilment of requirement for the award of the degree of MASTER OF COMPUT APPLICATION, submitted the department of Computer Science (campus of Gurukul Kangri Vishwavidyalaya, Haridwar), is an authentic record of my work carried out under the guidance of Dr. **MAHENDRA SINGH ASWAL SIR** (Department of Computer Science).

The matter embodied in this report has not been submitted by me for the award of any other degree/examination.

(Yogesh Sharma)

MCA 5TH Semester

195401052

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Dr. Mahendra Singh aswal
Dept. Of Computer Science,

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of any task and project would be incomplete without the mention of people whose ceaseless cooperation made it possible, whose constant guidance and encouragement crown all efforts with success.

*I am grateful to our project guide **Dr. Mahendra sir** for the guidance, inspiration and constructive suggestions that helped us in the preparation of this project. He helped this project from idea of stage to the record. He provided us with invaluable advice and helped us in difficult periods. His motivation and help contributed tremendously to the successful completion of the project. I tried my maximum to make this seminar according to her suggestion and direction.*

Besides, I would like to thank all the mentor who helped me by giving their advice and providing the equipment which we needed. Also, I would like to thank my friends for their support. Without that support we couldn't have succeeded in completing this project.

Date: 28march 2021

Yogesh Sharma

MCA 5th sem

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a. Title of the project

Online Blogging System

b. Introduction

A blog is a frequently updated online personal journal or diary. It is a place to express yourself to the world. A place to share your thoughts and your passions. Really, it's anything you want it to be. For our purposes we'll say that a blog is your own website that you are going to update on an ongoing basis. Blog is a short form for the word weblog and the two words are used interchangeably. Blogs range from the personal to the political, and can focus on one narrow subject or a whole range of subjects. It can also play an important role in student's life. It can help in the promotion of critical and analytical thinking, increased access and exposure to quality content and a combination of solitary and social interactions with peers.

Currently students in schools or colleges are unable to express their ideas, their talent or anything that can be expressed for some benefits for everyone. The reason is, schools or colleges don't have any proper medium to accomplish it. But proposed online blogging system can help in accomplish these things and even much more. We will cover the objectives of this online blogging system in next section.

Internet has become reality and usage of internet become very much popular and there is tremendous increase of internet in all over the world for educational purpose. The Online Blogging System is easy to use, full-featured and much more.

c. Objective

Online Blogging System is a perfect platform for students, teachers, institutional administrative purposes.

The basic objective of developing this project is:

- i. To promote collaboration between students and teachers. Mutual learning between students and teachers.
- ii. To have fun. Yes, you heard it right. It is wonderful when students think that they are having so much fun, they forget that they are actually learning.
- iii. To increase motivation for reading and writing.
- iv. To establish a home-school or home-college connection in order to make the parents/guardians aware about the happenings or events. Parents with internet access can check their child's work and writings.
- v. To improve the writing and digital literacy of the students.

௧௩. To showcase the student's accomplishments, talents, ideas or anything that they can't express.

௧௩. To give a voice to students.

௧௩. To give students a global and authentic audience – no longer working for a teacher who checks and evaluates work but a potential global audience.

௧௩. To create a digital portfolio of students.

௩. To create a cross-curricular environment.

௩. To develop critical thinking skills.

௩. Work is permanently stored, easily accessed and valuable comparisons can be made over time for assessment and evaluation purpose.

d. Project Scope

The Online Blogging System will allow the users to publish the writings, videos, images or audios if he/she should have credentials to login. The main users of this project are students, teachers and administrators.

From an end-user perspective, the Online Blogging System project consists of following functional elements:

௩. **Dashboard:** It is the default page of the site and we can access this option from left hand side anytime. All links are available on this page. We can also find the Quick Draft and Activity section here.

௩. **Posts:** Here we can see all the published contents by clicking on "[All Posts](#)" option and we can also publish new content by "[Add New](#)" option.

௩. **Media:** We can see the uploaded media items (videos, images, audios) by clicking on "[Library](#)" option and we can also add new media item from local system with the help of "[Add New](#)" button.

௩. **Comments:** In this section, we can check that who, when and what has been commented.

௩. **Profile:** In this section, we can personalize our profile like Password Change, Profile Picture Change, Display Name, Nickname etc.

⌚. **Tools:** This option is having additional plugins to install, which may enhance the current functionality.

⌚. **Collapse:** We can collapse the menu with this option.

⌚. **Home Button:** It is located at the top left portion and we can use this button to check the timeline where we can view the contents published by everyone.

e. Project Category

It is an application that can be accessed over web.

f. Technologies

• Operating Environment

- The online blogging system web application will operate with the following Web Browsers: Microsoft Internet Explorer, Mozilla Firefox and Google Chrome.
- Operating System: Linux 6.8(CentOS) hosted on VMWare Workstation 10.0
- Software requirements: MySQL, Apache HTTP Server, JAVA, JAVA-MySQL, Java-MyAdmin and WordPress.
- Languages used: JAVA.
- RAM: 1 GB(minimum) and we can assign maximum any size of RAM as per our requirement.
- Hard Disc: nGB depending upon the requirement to store the data. We have assigned 40 GB for our project.

• Deployment Environment

• DE-1: tomcat Server

- [Release notes](#) - Known issues in this Apache Tomcat release.
- [Apache Tomcat Server Configuration Reference](#) - Reference manual that documents all available elements and attributes that may be placed into the Apache Tomcat conf/server.xml file.
- [JK Documentation](#) - Complete documentation and HOWTOs on the JK native webserver connector, used to interface Apache Tomcat with servers like Apache HTTPd, IIS and others.
- Servlet 3.1 [Specification](#) and [Javadoc](#)
- JSP 2.3 [Specification](#) and [Javadoc](#)
- EL 3.0 [Specification](#) and [Javadoc](#)
- WebSocket 1.1 [Specification](#) and [Javadoc](#)
- JASPIC 1.1 [Specification](#) and [Javadoc](#)

g. Development Tools and Technologies

• DT - 1: JAVA

The acronym JAVA initially stood for Personal Home Pages, but it now stands for the recursive backronym JAVA: Hypertext Preprocessor. JAVA code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management system and web frameworks. It is a general purpose server side scripting language that is used to develop:

- Static websites
- Dynamic websites
- Web applications

JAVA scripts can only be interpreted on a server that has JAVA installed. The client computers accessing the JAVA scripts require a web browser only.

Things we need to know about JAVA are as follows:

- As we said before it is a server-side scripting language.
- JAVA is free and is an open source software product.
- The JAVA scripts are executed on the server.
- JAVA supports many databases (MySQL, Sybase, Oracle and many others)
- JAVA runs on different platforms (Unix, Linux, Windows)
- JAVA is compatible with almost all web-servers used today (Apache, IIS, etc.)
- A JAVA file can contain plain text, HTML tags and scripts.
- The JAVA files can have one of the following extensions: Java, Java3 or html.

If you don't want to spend money, you can also install everything on your local machine. The easiest way is to install WAMP if you have a Windows machine and LAMP if you have a Linux machine. (WAMP = Windows Apache MySQL JAVA and LAMP = Linux Apache MySQL JAVA.) These packages install everything you need.

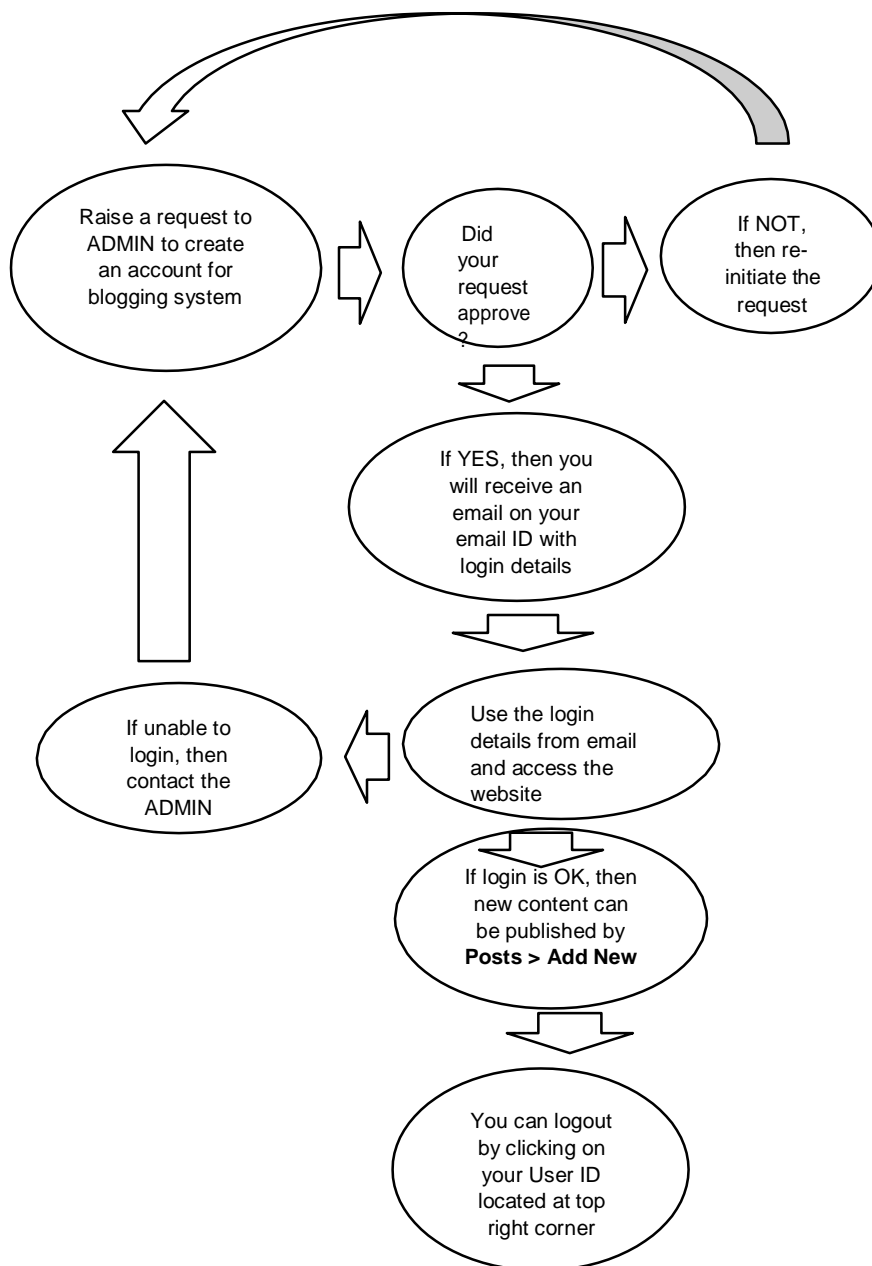
• DT – 2: MySQL

MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed, and supported by MySQL AB, which is a Swedish company. MySQL runs

on virtually all platforms, including Linux, UNIX, and Windows. Although it can be used in a wide range of applications, MySQL is most often associated with web-based applications and online publishing and is an important component of an open source enterprise stack called LAMP. LAMP is a Web development platform that uses Linux as the operating system, Apache as the Web server, MySQL as the relational database management system and JAVA as the object- oriented scripting language. MySQL is becoming so popular because of many good reasons:

- MySQL is released under an open-source license. So you have nothing to pay to use it.
- MySQL is a very powerful program. It handles a large subset of the functionality of the most expensive and powerful database packages.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL works on many operating systems and with many languages including JAVA, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.
- MySQL is very friendly to JAVA, the most appreciated language for web development.
- MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB).
- MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.

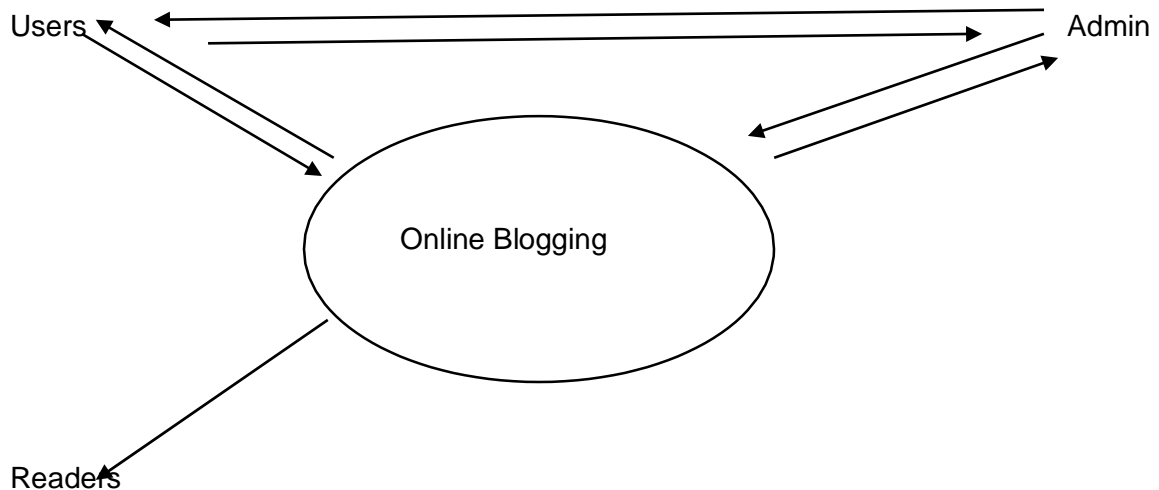
h. Process Flow Chart



i. Data Flow Diagram(DFD)

A data-flow diagram (DFD) is a graphical representation of the "flow" of data through an information system. DFDs can also be used for the visualization of data processing (structured design). On a DFD, data items flow from an external data source or an internal data store to an internal data store or an external data sink, via an internal process.

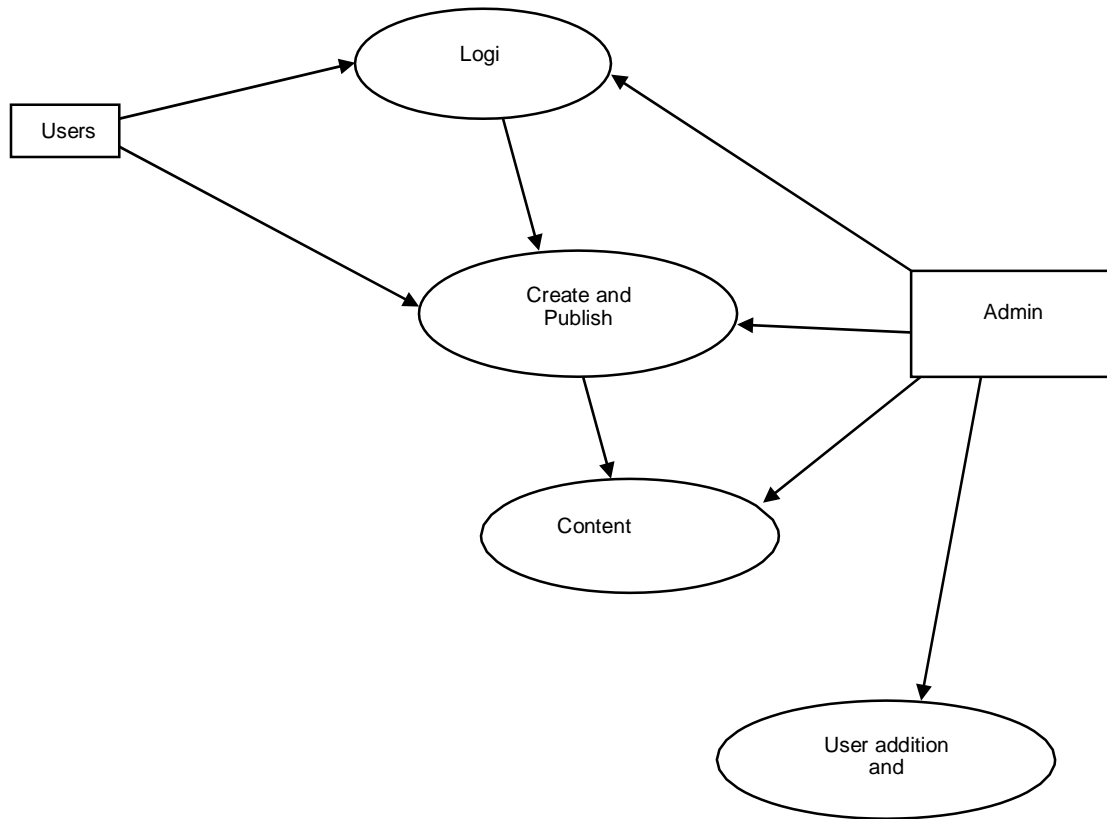
1. Context Level



This context-level data flow diagram, which shows the interaction between the system and external agents which act as data sources and data sinks. On the context diagram (also known as the Level 0 DFD) the system's interactions with the outside world are modelled purely in terms of data flows across the system boundary. This context diagram shows the entire Online Blogging System as a single process.

11. High Level Diagram (Level 1)

This level (level 1) shows all processes at the first level of numbering, data stores, external entities and the data flows between them. The purpose of this level is to show the major high- level processes of the Online Blogging System and their interrelation. A level-1 diagram must be balanced with its parent context level diagram, i.e. there must be the same external entities and the same data flows, these can be broken down to more detail in the level 1, e.g. the "Login" data flow could be split into "Create and Publish the content" and "Content Removal" and still be valid.



j. **Future Enhancement**

This project was developed to fulfil the requirement of common blogging platform for educational purposes. However, there are lots of scope to improve the performance of the Online Blogging System in the area of user interface, database performance, and query processing time etc.

So, there are many things for future enhancement of this project. The future enhancements that are possible in the project are as follows:

-
- Possibility of account creation of parents/guardians with limited rights.
 - Web based interface for generate reports, like who has published more contents, who has commented most, the logged in time etc.
 - Linking and integration of other online educational web sites.
 - Integration with school/college database through Web Services.
 - Development of mobile application which can run on multiple OS and devices.
 - We can also add a quiz feature and winners will get some educational assistance or any other reward.

12.

CODE

Index_jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.sql.*" %>
<!DOCTYPE html>
<html>
    <head>
        <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>

        <!--css-->
        <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwIGgFAW/dAiS6JXm
" crossorigin="anonymous">

        <link href="css/mycss.css" rel="stylesheet" type="text/css"/>

        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

        <style>
            .banner-background{
                clip-path: polygon(30% 0%, 70% 0%, 100% 0, 100% 99%, 68% 90%, 34%
100%, 0 90%, 0 0);
            }
        </style>

        <!--end of css-->
    </head>
    <body>
        <!--navbar-->
```

```
<%@include file="normal_navbar.jsp" %>
```

```
<!--banner.....-->
```

```
<div class="jumbotron primary-background text-white banner-background">
```

```
<div class="container ">
```

```
<h3 class="display-3 ">Welcome to MyGuruji</h3>
```

<p>A programming language is a formal language comprising a set of strings that produce various kinds of machine code output.

Programming languages are one kind of computer language,
and are used in computer programming to implement algorithms.</p>

<p>Most programming languages consist of instructions for computers.
There are programmable machines that use a

set of specific instructions, rather than general programming languages.

Since the early 1800s, programs have been used to direct the behavior of machines

such as Jacquard looms, music boxes and player pianos. The programs for these machines

(such as a player piano's scrolls) did not produce
different behavior in response to different inputs or conditions.</p>

```
<button class="btn btn-outline-light btn-lg"><span class="fa fa-user-plus"></span>Start ! its Free</button>
```

```
<a href="login_page.jsp" class="btn btn-outline-light btn-lg"><span class="fa fa-user-circle fa-spin"></span>Login</a>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!--cards....-->
```

```
<div class="container ">
```

```
<div class="row mb-2">
```

```
<div class="col-md-4">

  <div class="card" ">

    <div class="card-body">

      <h5 class="card-title">Java Programming Language</h5>

      <p class="card-text">Some quick example text to build on the card title
and make up the bulk of the card's content.</p>

      <a href="#" class="btn primary-background text-white">Read
More</a>

    </div>

  </div>
```

```
</div>

<div class="col-md-4">

  <div class="card" ">

    <div class="card-body">

      <h5 class="card-title">Java Programming Language</h5>

      <p class="card-text">Some quick example text to build on the card title
and make up the bulk of the card's content.</p>

      <a href="#" class="btn primary-background text-white">Read
More</a>

    </div>

  </div>

</div>
```

```
<div class="col-md-4">

  <div class="card" ">

    <div class="card-body">

      <h5 class="card-title">Java Programming Language</h5>

      <p class="card-text">Some quick example text to build on the card title
and make up the bulk of the card's content.</p>

      <a href="#" class="btn primary-background text-white">Read
```


More

</div>

</div>

</div>

</div>

<div class="row">

<div class="col-md-4">

<div class="card" ">

<div class="card-body">

<h5 class="card-title">Java Programming Language</h5>

<p class="card-text">Some quick example text to build on the card title
and make up the bulk of the card's content.</p>

Read

More

</div>

</div>

</div>

<div class="col-md-4">

<div class="card" ">

<div class="card-body">

<h5 class="card-title">Java Programming Language</h5>

<p class="card-text">Some quick example text to build on the card title
and make up the bulk of the card's content.</p>

Read

More

</div>

</div>

</div>

<div class="col-md-4">

```

<div class="card" ">

    <div class="card-body">

        <h5 class="card-title">Java Programming Language</h5>

        <p class="card-text">Some quick example text to build on the card title
and make up the bulk of the card's content.</p>

        <a href="#" class="btn primary-background text-white">Read
More</a>

    </div>

</div>

</div>

</div>

</div>

<!-- Footer -->
<footer class="primary-background text-center text-white mt-3">

    <!-- Grid container -->
    <div class="container p-4">

        <!-- Section: Social media -->
        <section class="mb-4">

            <!-- Facebook -->
            <a class="btn btn-outline-light btn-floating m-1" href="#" role="button"
                ><i class="fab fa-facebook-f"></i>
            </a>

            <!-- Twitter -->
            <a class="btn btn-outline-light btn-floating m-1" href="#" role="button"
                ><i class="fab fa-twitter"></i>
            </a>

            <!-- Google -->
            <a class="btn btn-outline-light btn-floating m-1" href="#" role="button"
                ><i class="fab fa-google"></i>

```

```
></a>

<!-- Instagram -->
<a class="btn btn-outline-light btn-floating m-1" href="#" role="button"
  ><i class="fab fa-instagram"></i>
  ></a>

<!-- Linkedin -->
<a class="btn btn-outline-light btn-floating m-1" href="#" role="button"
  ><i class="fab fa-linkedin-in"></i>
  ></a>

<!-- Github -->
<a class="btn btn-outline-light btn-floating m-1" href="#" role="button"
  ><i class="fab fa-github"></i>
  ></a>
</section>
<!-- Section: Social media -->

<!-- Section: Form -->
<section class="">
  <form action="">
    <!--Grid row-->
    <div class="row d-flex justify-content-center">
      <!--Grid column-->
      <div class="col-auto">
        <p class="pt-2">
          <strong>Sign up for our newsletter</strong>
        </p>
      </div>
    <!--Grid column-->
```

```
<!--Grid column-->

<div class="col-md-5 col-12">

  <!-- Email input -->

  <div class="form-outline form-white mb-4">

    <input type="email" id="form5Example2" class="form-control" />

    <label class="form-label" for="form5Example2">Email
address</label>

  </div>

</div>

<!--Grid column-->

<!--Grid column-->

<div class="col-auto">

  <!-- Submit button -->

  <button type="submit" class="btn btn-outline-light mb-4">

    Subscribe

  </button>

</div>

<!--Grid column-->

</div>

<!--Grid row-->

</form>

</section>

<!-- Section: Form -->

<!-- Section: Text -->

<section class="mb-4">

  <p>

    Lorem ipsum dolor sit amet consectetur adipisicing elit. Sunt distinctio
earum

    repellat quaerat voluptatibus placeat nam, commodi optio pariatur est
quia magnam

    eum harum corrupti dicta, aliquam sequi voluptate quas.
```

</p>

</section>

<!-- Section: Text -->

<!-- Section: Links -->

<section class="">

<!--Grid row-->

<div class="row">

<!--Grid column-->

<div class="col-lg-3 col-md-6 mb-4 mb-md-0">

<h5 class="text-uppercase">Links</h5>

<ul class="list-unstyled mb-0">

Link 1

Link 2

Link 3

Link 4

</div>

<!--Grid column-->

<!--Grid column-->

<div class="col-lg-3 col-md-6 mb-4 mb-md-0">

<h5 class="text-uppercase">Links</h5>

```
<ul class="list-unstyled mb-0">
  <li>
    <a href="#" class="text-white">Link 1</a>
  </li>
  <li>
    <a href="#" class="text-white">Link 2</a>
  </li>
  <li>
    <a href="#" class="text-white">Link 3</a>
  </li>
  <li>
    <a href="#" class="text-white">Link 4</a>
  </li>
</ul>
</div>
<!--Grid column-->
```

```
<!--Grid column-->
<div class="col-lg-3 col-md-6 mb-4 mb-md-0">
  <h5 class="text-uppercase">Links</h5>
```

```
<ul class="list-unstyled mb-0">
  <li>
    <a href="#" class="text-white">Link 1</a>
  </li>
  <li>
    <a href="#" class="text-white">Link 2</a>
  </li>
  <li>
    <a href="#" class="text-white">Link 3</a>
  </li>
```

```
        <li>
            <a href="#" class="text-white">Link 4</a>
        </li>
    </ul>
</div>
<!--Grid column-->

<!--Grid column-->
<div class="col-lg-3 col-md-6 mb-4 mb-md-0">
    <h5 class="text-uppercase">Links</h5>

    <ul class="list-unstyled mb-0">
        <li>
            <a href="#" class="text-white">Link 1</a>
        </li>
        <li>
            <a href="#" class="text-white">Link 2</a>
        </li>
        <li>
            <a href="#" class="text-white">Link 3</a>
        </li>
        <li>
            <a href="#" class="text-white">Link 4</a>
        </li>
    </ul>
</div>
<!--Grid column-->

</div>
<!--Grid row-->
</section>
<!-- Section: Links -->
</div>
```

<!-- Grid container -->

<!-- Copyright -->

<div class="text-center p-3" style="background-color: rgba(0, 0, 0, 0.2);">

© 2021 Copyright:

Myguruji.com

</div>

<!-- Copyright -->

</footer>

<!-- Footer -->

<!--javascript.....-->

<script

src="https://code.jquery.com/jquery-3.6.0.min.js"

integrity="sha256-/xUj+3OJU5yExlq6GSYGGSHk7tPXikynS7ogEvDej/m4="

crossorigin="anonymous"></script>

<script

src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"

integrity="sha384-

ApNbg9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"

crossorigin="anonymous"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"

integrity="sha384-

JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"

crossorigin="anonymous"></script>

<script src="js/MyJs.js" type="text/javascript"></script>

</body>

</html>

Load_post.jsp

```
<%@page import="com.web.project.entities.User"%>
<%@page import="com.web.project.dao.LikeDao"%>
<%@page import="com.web.project.entities.Post"%>
<%@page import="java.util.List"%>
<%@page import="com.web.project.helper.THE_CONNECTION"%>
<%@page import="com.web.project.dao.Postdao"%>

<div class="row">
    <%
        User uuu=(User)session.getAttribute("currentUser");
        Thread.sleep(1000);
        Postdao d = new Postdao(THE_CONNECTION.getConnection());
        int cid = Integer.parseInt(request.getParameter("cid"));
        List<Post> posts = null;
        if (cid == 0) {
            posts = d.getAllPosts();

        } else {
            posts = d.getPostByCatId(cid);

        }
        if (posts.size() == 0) {
            out.println("<h3 class='display-3 text-center;'> No Post in this
category...</h3>");
            return;
        }

        for (Post p : posts) {
    %>

<div class="col-md-6 mt-2">
```

```

<div class="card">

    <div class="card-body">

        <b><%= p.getpTitle()%></b>

        <p><%= p.getpContent()%></p>

    </div>

    <div class="card-footer bg-primary text-center">

        <%

            LikeDao ld=new LikeDao(THREAD_CONNECTION.getConnection());

            %>

            <a href="#" onclick="doLike(<%=p.getpId() %>,<%= uu.getpId() %>)"
class="btn btn-outline-light btn-sm"><i class="fa fa-thumbs-o-up"></i><span
class="like-counter"><%=ld.countLikeOnPost(p.getpId()) %></span></a>

            <a href="show_blog_page.jsp?post_id=<%=p.getpId() %>" class="btn btn-
outline-light btn-sm">Read More...</a>

            <a href="#" class="btn btn-outline-light btn-sm"><i class="fa fa-
commenting"></i><span>20</span></a>

        </div>

    </div>

</div>

<div>

    </div>

</div>

<%

```

```

    }
    %>

</div>
Login_page.jsp

<%@page import="com.web.project.entities.Message"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Login Page</title>
        <!--css.....-->
        <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwGgFAW/dAiS6JXm"
crossorigin="anonymous">
        <link href="css/mycss.css" rel="stylesheet" type="text/css"/>
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-
awesome.min.css">
        <style>
            .banner-background{
                clip-path: polygon(30% 0%, 70% 0%, 100% 0, 100% 99%, 67% 95%, 28% 100%, 0 90%,
0 0);
            }
        </style>
    </head>
    <body>
        <!--navbar.....-->
        <%@include file="normal_navbar.jsp" %>
        <main class="d-flex align-items-center primary-background banner-background "
style="height:80vh">
            <div class="container">
                <div class="row">
                    <div class="col-md-4 offset-md-4">

                        <div class="card">
                            <div class="card-header primary-background text-white text-center">
                                <span class="fa fa-user-plus fa-3x"></span>
                                <br>
                                <p>Login here</p>

                            </div>
                            <%
                                Message msg = (Message) session.getAttribute("message");
                                if (msg != null) {
                            %>
                            <div class="alert <%=msg.getCssClass()%>" role="alert">
                                <%=msg.getContent()%>
                            </div>

```

```

        <%
            session.removeAttribute("message");
        %>

        <div class="card-body">
            <form action="LoginServlet" method="POST">
                <div class="mb-3">
                    <label for="exampleInputEmail1" class="form-label">Email
address</label>
                    <input name="email" required type="email" class="form-control"
id="exampleInputEmail1" aria-describedby="emailHelp">
                    <div id="emailHelp" class="form-text">We'll never share your email with
anyone else.</div>
                </div>
                <div class="mb-3">
                    <label for="exampleInputPassword1" class="form-
label">Password</label>
                    <input name="password" required type="password" class="form-control"
id="exampleInputPassword1">
                </div>

                <div class="container text-center">
                    <button type="submit" class="btn btn-primary ">Submit</button>
                </div>
            </form>

        </div>
    </div>

</div>
</div>
</div>
</main>

```

```

<!--javascript.....-->
<script
    src="https://code.jquery.com/jquery-3.6.0.min.js"
    integrity="sha256-/xUj+3OJU5yExlq6GSYGGSHk7tPXikynS7ogEvDej/m4="
    crossorigin="anonymous"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
crossorigin="anonymous"></script>
<script src="js/MyJs.js" type="text/javascript"></script>

```

```
</body>
</html>
```

Normal_navbar.jsp

```
<nav class="navbar navbar-expand-lg navbar-dark primary-background " id="navbar">
  <a class="navbar-brand" href="index.jsp"><span class="fa fa-certificate"></span> MyGuruji</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false"
aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>

  <div class="collapse navbar-collapse" id="navbarSupportedContent">
    <ul class="navbar-nav mr-auto">
      <li class="nav-item active">
        <a class="nav-link" href="#"><span class="fa fa-handshake-o"></span>LearnCode with
Guruji <span class="sr-only">(current)</span></a>
      </li>

      <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-
toggle="dropdown" aria-haspopup="true" aria-expanded="false">
          <span class="fa fa-gears"></span>Categories
        </a>
        <div class="dropdown-menu" aria-labelledby="navbarDropdown">
          <a class="dropdown-item" href="#">Programming Language</a>
          <a class="dropdown-item" href="#">Project Implementaion</a>
          <div class="dropdown-divider"></div>
          <a class="dropdown-item" href="#">Data Structure</a>
        </div>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#"><span class="fa fa-phone-square"></span>Contact</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="login_page.jsp"><span class="fa fa-user-circle
"></span>Login</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="register_page.jsp"><span class="fa fa-user-plus"></span>Sign
up</a>
      </li>

    </ul>
    <form class="form-inline my-2 my-lg-0">
      <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-
label="Search">
      <button class="btn btn-outline-light my-2 my-sm-0" type="submit">Search</button>
    </form>
  </div>
</nav>
```

Profile_jsp

```
<%@page import="java.util.ArrayList"%>
<%@page import="com.web.project.entities.Category"%>
<%@page import="com.web.project.dao.Postdao"%>
<%@page import="com.web.project.helper.THE_CONNECTION"%>
<%@page import="com.web.project.entities.Message"%>
<%@page import="com.web.project.entities.User"%>
<%@page errorPage="error_page.jsp" %>
<%
    User user = (User) session.getAttribute("currentUser");
    if (user == null) {
        response.sendRedirect("login_page.jsp");
    }

%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>

<html lang="en">
    <head>
        <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">

        <title>Profile Page</title>

        <!--css-->

        <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1ao/WXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwIGgFAW/dAiS6JXm
" crossorigin="anonymous">
```

```

<link href="css/mycss.css" rel="stylesheet" type="text/css"/>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

<style>

    .banner-background{

        clip-path: polygon(30% 0%, 70% 0%, 100% 0, 100% 99%, 68% 90%, 34%
100%, 0 90%, 0 0);

    }

    body{

        background: url(img/image.jpg);

        /*cover hole background*/

        background-size: cover;

        /*background is fixed*/

        background-attachment: fixed;

    }

</style>

<!--end of css-->

</head>

<body>

    <!--navbar-->

    <nav class="navbar navbar-expand-lg navbar-dark primary-background "
id="navbar">

        <a class="navbar-brand" href="index.jsp"><span class="fa fa-
certificate"></span> MyGuruji</a>

        <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">

            <span class="navbar-toggler-icon"></span>

        </button>

        <div class="collapse navbar-collapse" id="navbarSupportedContent">

            <ul class="navbar-nav mr-auto">

```

```

<li class="nav-item active">

    <a class="nav-link" href="#"><span class="fa fa-handshake-
o"></span>LearnCode with Guruji <span class="sr-only">(current)</span></a>

</li>

<li class="nav-item dropdown">

    <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown"
role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">

        <span class="fa fa-gears"></span>Categories

    </a>

    <div class="dropdown-menu" aria-labelledby="navbarDropdown">

        <a class="dropdown-item" href="#">Programming Language</a>

        <a class="dropdown-item" href="#">Project Implementaion</a>

        <div class="dropdown-divider"></div>

        <a class="dropdown-item" href="#">Data Structure</a>

    </div>

</li>

<li class="nav-item">

    <a class="nav-link" href="#"><span class="fa fa-phone-
square"></span>Contact</a>

</li>

<li class="nav-item">

    <a class="nav-link" href="#" data-toggle="modal" data-target="#add-
post-model"><span class="fa fa fa-edit"></span>Do Post</a>

</ul>

<ul class="navbar-nav mr-right">

    <li class="nav-item">

        <a class="nav-link" href="#" data-toggle="modal" data-
target="#profile-modal"><span class="fa fa-user-
circle"></span><%=user.getName()%></a>

    </li>

    <li class="nav-item">

```



```
        <a class="nav-link" href="LogoutServlet"><span class="fa fa-user-  
plus"></span>Logout</a>
```

```
    </li>
```

```
</ul>
```

```
</div>
```

```
</nav>
```

```
<!--end of navbar-->
```

```
<%
```

```
    Message msg = (Message) session.getAttribute("message");
```

```
    if (msg != null) {
```

```
%>
```

```
<div class="alert <%=msg.getCssClass()%>" role="alert">
```

```
    <%=msg.getContent()%>
```

```
</div>
```

```
<%
```

```
    session.removeAttribute("message");
```

```
}
```

```
%>
```

```
<!--main body of the page-->
```

```
<main>
```

```
    <div class="container">
```

```
        <div class="row mt-4 " >
```

```
            <!--first col-->
```

```
            <div class="col-md-4">
```

```
                <!--Show list of categories-->
```

```
                <div class="list-group">
```

```
                    <a href="#" onclick="getPosts(0,this)" class=" c-link list-group-item  
list-group-item action active">
```

All Posts

<%

```
Postdao dao = new
Postdao( THE_CONNECTION.getConnection());
```

```
ArrayList<Category> list1 = dao.getAllCategories();
```

```
for (Category cc : list1) {
```

%>

```
<a href="#" onclick="getPosts(<%= cc.getId() %>,this)" class="c-
link list-group-item list-group-item-action"><%= cc.getName()%></a>
```

<%

```
}
```

%>

</div>

</div>

<!--Second col-->

<div class="col-md-8" >

<!--Show post-->

<div class="container text-center" id="loader">

<i class="fa fa-refresh fa-4x fa-spin"></i>

<h3 class="mt-3" >Loading...</h3>

</div>

<div class="container" id="post-container">

</div>

</div>

```

        </div>

    </div>

</main>

<!--End main body of the page-->

<!--profile model-->

<!--search bootstrap 4 modal-->

<!-- Modal -->

<div class="modal fade" id="profile-modal" tabindex="-1" role="dialog" aria-
labelledby="exampleModalLabel" aria-hidden="true">

    <div class="modal-dialog" role="document">

        <div class="modal-content">

            <div class="modal-header primary-background text-white text-center">

                <h5 class="modal-title" id="exampleModalLabel">MyGuruji</h5>

                <button type="button" class="close" data-dismiss="modal" aria-
label="Close">

                    <span aria-hidden="true">&times;</span>

                </button>

            </div>

            <div class="modal-body">

                <div class="container text-center">

                    <br>

                    <h5 class="modal-title mt-3"
id="exampleModalLabel"><%=user.getName()%></h5>

                    <!--Details-->

                    <div id="profile-details">

                        <table class="table">

                            <tbody>

                                <tr>

```

```
<th scope="row">ID</th>
```

```
<td><%=user.getId()%></td>
```

```
</tr>
```

```
<tr>
```

```
<th scope="row">Email :</th>
```

```
<td><%=user.getEmail()%></td>
```

```
</tr>
```

```
<tr>
```

```
<th scope="row">Gender:</th>
```

```
<td><%=user.getGender()%></td>
```

```
</tr>
```

```
<tr>
```

```
<th scope="row">Status:</th>
```

```
<td><%=user.getAbout()%></td>
```

```
</tr>
```

```
<tr>
```

```
<th scope="row">Registered on:</th>
```

```
<td><%=user.getDatetime().toString()%></td>
```

```
</tr>
```

```
</tbody>
```

```
</table>
```

```
</div>
```

```
<!--profile edit-->
```

```
<div id="profile-edit" style="display:none">
```

```
<h3 class="mt-2">Please Edit Carefully</h3>
```

```
<form action="EditServlet" method="POST"
enctype="multipart/form-data">
```

```
<table class="table">

    <tr>

        <td>ID :</td>

        <td><%=user.getId()%></td>

    </tr>

    <tr>

        <td>Email :</td>

        <td><input type="email" class="form-control"
name="user_email" value="<%=user.getEmail()%>"></td>

    </tr>

    <tr>

        <td>Name :</td>

        <td><input type="text" class="form-control"
name="user_name" value="<%=user.getName()%>"></td>

    </tr>

    <tr>

        <td>Password :</td>

        <td><input type="password" class="form-control"
name="user_password" value="<%=user.getPassword()%>"></td>

    </tr>

    <tr>

        <td>Gender :</td>

        <td><%=user.getGender().toUpperCase()%></td>

    </tr>

    <tr>

        <td>About :</td>

        <td>

            <textarea rows="3" class="form-control "
name="user_about"><%=user.getAbout()%>

            </textarea>

        </td>

    </tr>

</table>
```

```

        <tr>
            <td>New Profile</td>
            <td> <input type="file" name="image" class="form-
control"></td>
        </tr>

```

```

    </table>
    <div class="container">
        <button type="submit" class="btn btn-outline-
primary">Save</button>
    </div>
</form>

```

```

</div>

```

```

</div>

```

```

</div>

```

```

<div class="modal-footer">

```

```

    <button id="edit-profile-button" type="button" class="btn btn-
primary">Edit</button>

```

```

    <button type="button" class="btn btn-secondary" data-
dismiss="modal">Close</button>

```

```

</div>

```

```

</div>

```

```

</div>

```

```

</div>

```

```

<!--end of profile model-->

```

```

<!--Add post model-->

```

```

<div class="modal fade" id="add-post-model" tabindex="-1" role="dialog" aria-
labelledby="exampleModalLabel" aria-hidden="true">

```

```

<div class="modal-dialog" role="document">
  <div class="modal-content">
    <div class="modal-header">
      <h5 class="modal-title" id="exampleModalLabel">Provide the post
details...</h5>
      <button type="button" class="close" data-dismiss="modal" aria-
label="Close">
        <span aria-hidden="true">&times;</span>
      </button>
    </div>
    <div class="modal-body">
      <form action="AddPostServlet" method="POST" id="add-post-form" ">
        <div class="form-group">
          <select class="form-control" name="cld">
            <option selected disabled="">----Select Category----</option>
            <%
              Postdao postd = new
Postdao(
THE_CONNECTION.getConnection());
              ArrayList<Category> list = postd.getAllCategories();
              for (Category c : list) {

                %>
                <option value="<%= c.getCld()%>"> <%=
c.getName()%></option>

                <%
              }
              %>
            </select>
          </div>
          <div class="form-group">
            <input name="pTitle" type="text" placeholder="Enter post Title"
class="form-control"/>
          <div class="form-group">

```

```
        <textarea name="pContent" class="form-control"
placeholder="Enter your content" style="height: 200px"></textarea>
    </div>
```

```
    <div class="form-group">
        <textarea name="pCode" class="form-control"
placeholder="Enter your Program (if any)" style="height: 200px"></textarea>
    </div>
```

```
    <div class="form-group">
        <label>Select your pic...</label>
        <br>
        <input name="pic" type="file"/>
    </div>
```

```

</div>
<div class="container text-center">
    <button type="submit" class="btn btn-secondary primary-
background text-white">Post</button>
</div>
```

```
</form>
```

```

</div>
<div class="modal-footer">
    <button type="button" class="btn btn-secondary " data-
dismiss="modal">Close</button>

```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```


<!--End add post model-->

<!--javascript.....-->

<script

src="https://code.jquery.com/jquery-3.6.0.min.js"

integrity="sha256-/xUj+3OJU5yExlq6GSYGS7tPXikynS7ogEvDej/m4="

crossorigin="anonymous"></script>

<script

src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"

integrity="sha384-

ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"

crossorigin="anonymous"></script>

<script

src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"

integrity="sha384-

JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"

crossorigin="anonymous"></script>

<script src="js/MyJs.js" type="text/javascript"></script>

<!--SweetAlert CDN-->

<script

src=https://cdnjs.cloudflare.com/ajax/libs/sweetalert/2.1.2/sweetalert.min.js></script>

<script>

\$(function () {

let editStatus = false;

\$("#edit-profile-button").click(function () {

if (editStatus === false) {

\$("#profile-details").hide();

\$("#profile-edit").show();

editStatus = true;

\$(this).text("Back");

} else {

\$("#profile-details").show();

\$("#profile-edit").hide();

editStatus = false;

```
        $(this).text("Edit");

    }


```

```
});
```

```
});
```

```
</script>
```

```
<!--now Add post Js-->
```

```
<script>
```

```
$(function () {
```

```
    console.log("Loaded.....");
```

```
    $("#add-post-form").on("submit", function (event) {
```

```
        event.preventDefault();
```

```
        let form = new FormData(this);
```

```
//        send register servlet
```

```
        $.ajax({
```

```
            url: "AddPostServlet",
```

```
            type: 'post',
```

```
            data: form,
```

```
            success: function (data, textStatus, jqXHR) {
```

```
                console.log(data);
```

```
                if (data.trim() === "done") {
```

```
        swal("Good job!", "Saved Successfully!", "success");

    } else {

        swal("Error!", "Something went wrong Please Try again!", "error");

    }

},

error: function (jqXHR, textStatus, errorThrown) {

    swal("Error!", "Something went wrong Please Try again!", "error");

},

processData: false,

contentType: false

});

});

});
```

</script>

<!--End post Js-->

<!--loading post using ajax-->

<script>

```
function getPosts(catId,temp){

    $("#loader").show()

    $("#post-container").hide()

    $(".c-link").removeClass('active');
```

```
$.ajax({

    url: "load_posts.jsp",
```

```
        data:{cid:catId},
        success: function (data, textStatus, jqXHR) {
            console.log(data);
            $('#loader').hide();
            $("#post-container").show()
            $('#post-container').html(data);
            $(temp).addClass('active')
        }
    })
}
```

```
$(function (e) {
    let allpostRef=$("#.c-link")[0]
    getPosts(0,allpostRef)

})
```

</script>

</body>

</html>

Register_page.jsp

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

```

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Register Page</title>

<!--css.....-->

<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwIGgFAW/dAiS6JXm
" crossorigin="anonymous">

<link href="css/mycss.css" rel="stylesheet" type="text/css"/>

<!--Font awesome cdn-->

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">


<style>

    .banner-background{

        clip-path: polygon(30% 0%, 70% 0%, 100% 0, 100% 99%, 67% 95%, 28%
100%, 0 90%, 0 0);

    }

</style>

</head>

<body>

    <%@include file="normal_navbar.jsp" %>

    <main class="primary-background p-5 banner-background" style="padding-
bottom: 50px;">

        <div class="container">

            <div class="col-md-6 offset-md-3">

                <div class="card">

                    <div class="card-header text-center primary-background text-white">

                        <span class="fa fa-3x fa-user-circle"></span>

                        <br>

                        Register here

                    </div>

                    <div class="card-body">

                        <form id="reg_form" action="RegisterServlet" method="POST">

```

```
<div class="form-group">

  <label for="user_name">User Name</label>

  <input name="user_name" type="text" class="form-control"
id="user_name" aria-describedby="emailHelp" placeholder="Enter Name">

</div>
```

```
<div class="form-group">

  <label for="exampleInputEmail1">Email address</label>

  <input name="user_email" type="email" class="form-control"
id="exampleInputEmail1" aria-describedby="emailHelp" placeholder="Enter email">

  <small id="emailHelp" class="form-text text-muted">We'll never
share your email with anyone else.</small>

</div>
```

```
<div class="form-group">

  <label for="exampleInputPassword1">Password</label>

  <input name="user_password" type="password" class="form-
control" id="exampleInputPassword1" placeholder="Password">

</div>
```

```
<div class="form-group">

  <label for="gender">Select Gender</label>

  <br>

  <input type="radio" id="gender" name=gender
value="Male">Male

  <input type="radio" id="gender" name=gender
value="Female">Female

</div>
```

```
<div class="form-group">

  <textarea name="about" id="" class="form-control" rows="5"
placeholder="Enter some thing about your self"></textarea>

</div>
```

```
<div class="form-check">

  <input name="check" type="checkbox" class="form-check-
```

```

input" id="exampleCheck1">

        <label class="form-check-label" for="exampleCheck1">Agree
term and condition</label>

    </div>

    <br>

    <div class="container text-center" style="display: none;"
id="loader" >

        <span class="fa fa-refresh fa-spin fa-4x"></span>

        <h1>Please wait...</h1>

    </div>


        <button type="submit" class="btn btn-primary"
id="submit_btn">Submit</button>

    </form>


</div>

</div>

</div>

</main>


<!--javascript.....-->

<script

    src="https://code.jquery.com/jquery-3.6.0.min.js"

    integrity="sha256-/xUj+3OJU5yExlq6GSYGGSHk7tPXikynS7ogEvDej/m4="

    crossorigin="anonymous"></script>

<script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxmU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>

<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
crossorigin="anonymous"></script>

<script src="js/MyJs.js" type="text/javascript"></script>

```

```

<!--Sweet Alert cdn-->

<script
src="https://cdnjs.cloudflare.com/ajax/libs/sweetalert/2.1.2/sweetalert.min.js"></script
>

<script>

    $(function () {

        console.log("Loaded.....");

        $("#reg_form").on("submit", function (event) {

            event.preventDefault();

            let form = new FormData(this);


            $("#submit_btn").hide();
            $("#loader").show();


//            send register servlet
$.ajax({
    url: "RegisterServlet",
    type: 'post',
    data: form,
    success: function (data) {
        console.log(data);
        $("#submit_btn").show();
        $("#loader").hide();
        if(data.trim()=== "done"){
            swal("We Are Successfully Registered...Redirecting to login
page")

                .then((value) => {
                    window.location="login_page.jsp";
                });
            }else{
                swal(data);
            }
        }
    }
});

```



```
        }

    },

    error: function (jqXHR) {

        console.log(jqXHR);

        $("#submit_btn").show();

        $("#loader").hide();

        swal("Something Went Wrong...Try again")

    },

    processData: false,

    contentType: false

});

});

});

</script>
</body>
</html>
```

Error_page.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page isErrorPage="true" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Sorry ! Something Went Wrong</title>
```

```
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwIGgFAW/dAiS6JXm
" crossorigin="anonymous">
```

```
    <link href="css/mycss.css" rel="stylesheet" type="text/css"/>
```

```
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
```

```
    <style>
```

```
        .banner-background{

            clip-path: polygon(30% 0%, 70% 0%, 100% 0, 100% 99%, 67% 95%, 28%
100%, 0 90%, 0 0);

        }
```

```
    </style>
```

```
</head>
```

```
<body>
```

```
    <div class="container text-center">
```

```
        
```

```
        <h1 class="display-3">Sorry!Something went wrong...</h1>
```

```
        <%= exception%>
```

```
        <a href="index.jsp" class="btn primary-background btn-lg text-white mt-
3">Home</a>
```

```
    </div>
```

```
</body>
```

```
</html>
```

k. Bibliography

• Websites

Following websites has been referred to create this project report:

- <http://www.google.com/>
- <http://www.vmware.com/>
- <https://www.centos.org/download/>
- <https://wordpress.org/download/>
- <https://en.wikipedia.org/>
- [https://www.digitalocean.com/community/tutorials/how-to-install-linux-apache-mysql- Java-lamp-stack-on-centos-6](https://www.digitalocean.com/community/tutorials/how-to-install-linux-apache-mysql-java-lamp-stack-on-centos-6)
- [https://www.digitalocean.com/community/tutorials/how-to-install-wordpress-on- centos-6--2](https://www.digitalocean.com/community/tutorials/how-to-install-wordpress-on-centos-6--2)

• Books/e-books

Following books/e-books has been referred to create this project report:

- BT0079-Mini Project Guidelines.pdf