| | Marwadi University |
|---|---|
|  | Faculty of Technology |
| | Department of Information and Communication Technology |

| Subject: Advanced Java (01CT1623) | Aim: Create Java web application Using Servlet For Manage blogs | |
|---|---|---|
| TASK :- 02 | Date:- 31-01-2025 | Enrollment No:- 92200133003 |

**CODE :-**

## BlogDao.java

```java
package com.blogapp.dao;

import com.blogapp.model.Blog;
import com.blogapp.util.DBConnection;

import java.sql.*;
import java.util.ArrayList;
import java.util.List;

public class BlogDAO {
    public void addBlog(Blog blog) throws SQLException {
        String sql = "INSERT INTO blogs (title, content, username) VALUES (?, ?, ?)";
        try (Connection conn = DBConnection.getConnection();
             PreparedStatement ps = conn.prepareStatement(sql)) {
            ps.setString(1, blog.getTitle());
            ps.setString(2, blog.getContent());
            ps.setString(3, blog.getUsername());
            ps.executeUpdate();
        }
    }

    public List<Blog> getAllBlogs() throws SQLException {
        List<Blog> blogs = new ArrayList<>();
        String sql = "SELECT id, title, content, username, published_at FROM blogs ORDER BY published_at DESC";

        try (Connection conn = DBConnection.getConnection();
             PreparedStatement ps = conn.prepareStatement(sql);
             ResultSet rs = ps.executeQuery()) {
            while (rs.next()) {
                Blog blog = new Blog(
                        rs.getString("title"),
                        rs.getString("content"),
                        rs.getString("username")
                );
                blogs.add(blog);
            }
        }
        return blogs;
    }
}
```

| NAAC A+ | **Marwadi University**<br>**Faculty of Technology**<br>**Department of Information and Communication Technology** |
|---|---|
| **Subject: Advanced Java (01CT1623)** | **Aim:** Create Java web application Using Servlet For Manage blogs |
| **TASK :-** 02 | **Date:-** 31-01-2025 | **Enrollment No:-** 92200133003 |

## Blog

```java
package com.blogapp.model;

import java.sql.Timestamp;

public class Blog {
    private int id;
    private String title;
    private String content;
    private String username;
    private Timestamp publishedAt;

    public Blog(String title, String content, String username) {
        this.id = id;
        this.title = title;
        this.content = content;
        this.username = username;
        this.publishedAt = publishedAt;
    }

    public int getId() {
        return id;
    }

    public String getTitle() {
        return title;
    }

    public String getContent() {
        return content;
    }

    public String getUsername() {
        return username;
    }

    public Timestamp getPublishedAt() {
        return publishedAt;
    }
}
```

## AddBlogServlet.java

```java
package com.blogapp.servlet;

import com.blogapp.dao.BlogDAO;
import com.blogapp.model.Blog;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.sql.SQLException;

@WebServlet("/add-blog")
public class AddBlogServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
```

| ![Marwadi University Logo] NAAC A+ | **Marwadi University** <br> **Faculty of Technology** <br> **Department of Information and Communication Technology** |
|---|---|
| **Subject: Advanced Java (01CT1623)** | **Aim:** Create Java web application Using Servlet For Manage blogs |
| **TASK :-** 02 | **Date:-** 31-01-2025     **Enrollment No:-** 92200133003 |

```
        String title = request.getParameter("title");
        String content = request.getParameter("content");
        String username = request.getParameter("username");

        Blog blog = new Blog(title, content, username);
        BlogDAO blogDAO = new BlogDAO();

        try {
            blogDAO.addBlog(blog);
            response.sendRedirect("view-blogs.jsp");
        } catch (SQLException e) {
            throw new ServletException("Error adding blog", e);
        }
    }
}
```

## BlogServlet.java

```
package com.blogapp.servlet;

import com.blogapp.dao.BlogDAO;
import com.blogapp.model.Blog;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.sql.SQLException;
import java.util.List;

@WebServlet("/blogs")
public class BlogServlet extends HttpServlet {
    private BlogDAO blogDAO;

    @Override
    public void init() {
        blogDAO = new BlogDAO();
    }

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        try {
            List<Blog> blogs = blogDAO.getAllBlogs();
            request.setAttribute("blogs", blogs);
            request.getRequestDispatcher("view-blogs.jsp").forward(request, response);
        } catch (SQLException e) {
            throw new ServletException("Error fetching blogs", e);
        }
    }
}
```

| | **Marwadi University** |
|---|---|
| (Marwadi University logo) (NAAC A+ logo) | **Faculty of Technology** |
| | **Department of Information and Communication Technology** |
| **Subject: Advanced Java (01CT1623)** | **Aim:** Create Java web application Using Servlet For Manage blogs |
| **TASK :- 02** | **Date:-** 31-01-2025 **Enrollment No:-** 92200133003 |

**ViewBlogServlet.java**

```java
package com.blogapp.servlet;

import com.blogapp.dao.BlogDAO;
import com.blogapp.model.Blog;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.sql.SQLException;
import java.util.List;

@WebServlet("/view-blogs")
public class ViewBlogsServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        BlogDAO blogDAO = new BlogDAO();
        List<Blog> blogs = null;
        try {
            blogs = blogDAO.getAllBlogs();
        } catch (SQLException e) {
            throw new RuntimeException(e);
        }
        request.setAttribute("blogs", blogs);
        request.getRequestDispatcher("view-blogs.jsp").forward(request, response);
    }
}
```

**DBConnection.java**

```java
package com.blogapp.util;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class DBConnection {
    private static final String URL = "jdbc:mysql://localhost:3306/aj_practical";
    private static final String USER = "root"; // Change if needed
    private static final String PASSWORD = ""; // Change if needed

    static {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver"); // Load MySQL driver
        } catch (ClassNotFoundException e) {
            throw new RuntimeException("MySQL Driver not found!", e);
        }
    }

    public static Connection getConnection() throws SQLException {
        return DriverManager.getConnection(URL, USER, PASSWORD);
    }
}
```

| | | **Marwadi University** **Faculty of Technology** **Department of Information and Communication Technology** |
|---|---|---|
| **Subject: Advanced Java (01CT1623)** | | **Aim:** Create Java web application Using Servlet For Manage blogs |
| **TASK :-** 02 | **Date:-** 31-01-2025 | **Enrollment No:-** 92200133003 |

## Add-blog.jsp

```
<form action="add-blog" method="post">
   <label>Title:</label>
   <input type="text" name="title" required>

   <label>Content:</label>
   <textarea name="content" required></textarea>

   <label>Username:</label>
   <input type="text" name="username" required>

   <button type="submit">Submit</button>
</form>

<% if (request.getAttribute("error") != null) { %>
   <p style="color: red;"><%= request.getAttribute("error") %></p>
<% } %>
```

## View-blog.jsp

```
<%@ page import="java.util.List" %>
<%@ page import="com.blogapp.model.Blog" %>

<%
   List<Blog> blogs = (List<Blog>) request.getAttribute("blogs");
   Integer loggedInUserId = (Integer) request.getAttribute("loggedInUserId");
%>

<table border="1">
   <tr>
      <th>Title</th>
      <th>Content</th>
      <th>Actions</th>
   </tr>
   <% for (Blog blog : blogs) { %>
      <tr>
         <td><%= blog.getTitle() %></td>
         <td><%= blog.getContent() %></td>
         <td>
            <% if (loggedInUserId != null && loggedInUserId.equals(blog.getUserId())) { %>
               <a href="edit-blog.jsp?id=<%= blog.getId() %>">Edit</a>
            <% } %>
         </td>
      </tr>
   <% } %>
</table>
```

| | Marwadi University | | |
|---|---|---|---|
| | **Marwadi University**<br>**Faculty of Technology**<br>**Department of Information and Communication Technology** | | |
| **Subject: Advanced Java (01CT1623)** | **Aim:** Create Java web application Using Servlet For Manage blogs | | |
| **TASK :- 02** | **Date:-** 31-01-2025 | **Enrollment No:-** 92200133003 | |

**OUTPUT :**



localhost:8080/Blog_Management/add-blog.jsp

Title: Marwadi University   Content: 12   Username: Prashant   Submit



**All Blogs**

**Marwadi University**

796

By Prashant on 2025-03-31 17:59:01.0

**Marwadi University**

123

By Prashant on 2025-03-31 17:40:47.0

**Marwadi University**

12

By Prashant on 2025-03-31 17:37:22.0

**Marwadi University**

12

By Prashant on 2025-03-31 17:33:32.0

**Marwadi University**

12

By Prashant on 2025-03-31 17:33:10.0

| | | | id | title | content | username | published_at |
|---|---|---|---|---|---|---|---|
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 1 | Marwadi University | ICE Department | Prashant | 2025-03-31 16:27:33 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 2 | Marwadi University | ict | Prashant | 2025-03-31 16:41:31 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 3 | Marwadi University | CE department | Prashant | 2025-03-31 16:50:34 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 4 | Marwadi University | CE department | Harshil | 2025-03-31 16:50:55 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 5 | Marwadi University | qq | Prashant | 2025-03-31 17:03:52 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 6 | Marwadi University | 12 | Prashant | 2025-03-31 17:07:02 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 7 | Marwadi University | 12 | Prashant | 2025-03-31 17:33:10 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 8 | Marwadi University | 12 | Prashant | 2025-03-31 17:33:32 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 9 | Marwadi University | 12 | Prashant | 2025-03-31 17:37:22 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 10 | Marwadi University | 123 | Prashant | 2025-03-31 17:40:47 |
| ☐ | 🖉 Edit | ⦂ Copy ⊖ Delete | 11 | Marwadi University | 796 | Prashant | 2025-03-31 17:59:01 |