Blog App User Roles

Blog Application with User Roles and Authentication

Project Overview

This project aims to develop a web application for managing blog posts with user roles and authentication. The application will have two user roles: Admin and Viewer.

Technologies

• Backend: Java Servlets

• Frontend: JSP (JavaServer Pages)

• Database: MySQL

Project Phases

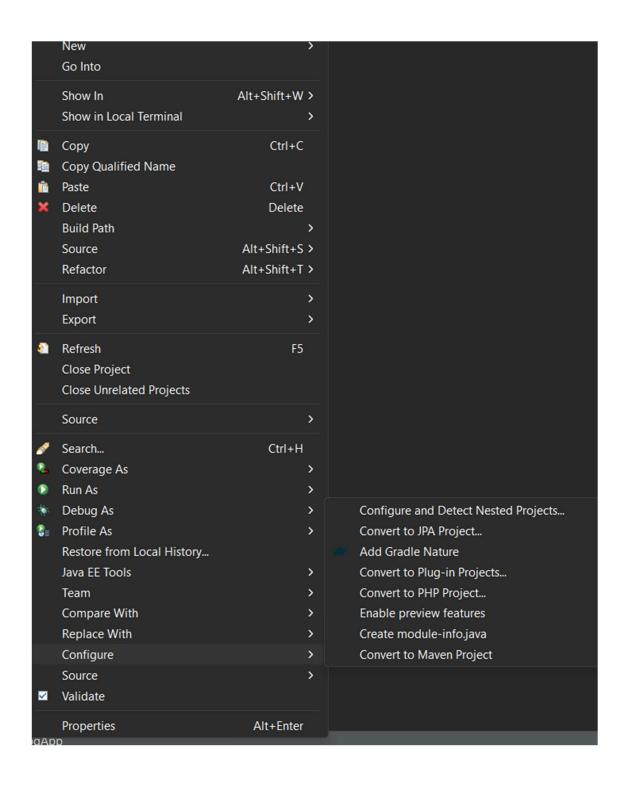
Creating java project

Follow some steps:

Create Java Dynamic Web Project

Click on project

It will display



Click on configure and convert to maven project

In pom.xml it will shows and add dependencies

```
ct
xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSche
ma-instance"
xsi:schemaLocation="http://maven.apache.o
rg/POM/4.0.0
https://maven.apache.org/xsd/maven-
4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>BlogApplication1
<artifactId>BlogApplication1</artifactId>
  <version>0.0.1-SNAPSHOT
  <packaging>war</packaging>
  <build>
     <plugin>
       <artifactId>maven-compiler-
plugin</artifactId>
       <version>3.8.1
       <configuration>
         <release>17</release>
       <artifactId>maven-war-
plugin</artifactId>
     </plugin>
  </build>
     <dependencies>
        <dependency>
```

Add Dependencies

Create tables

```
CREATE TABLE user (

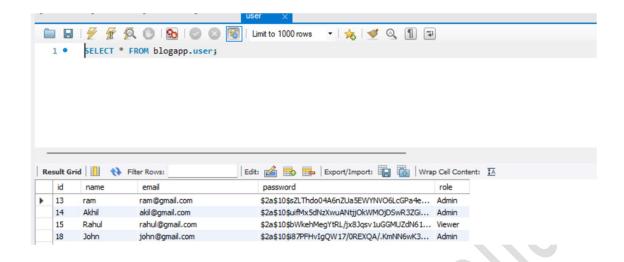
id INT AUTO_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

email VARCHAR(100) NOT NULL UNIQUE,

password VARCHAR(255) NOT NULL,

role ENUM('Admin', 'Viewer') NOT NULL
);
```



```
CREATE TABLE posts (

id INT AUTO_INCREMENT PRIMARY KEY,

title VARCHAR(255),

content TEXT,

date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

userId INT,

edit BOOLEAN DEFAULT false,

FOREIGN KEY (userId) REFERENCES user(id)

);
```

```
CREATE TABLE media (

id INT AUTO_INCREMENT PRIMARY KEY,

postId INT,

file_data LONGBLOB,

upload_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

FOREIGN KEY (postId) REFERENCES posts(id) ON DELETE CASCADE
```

Sample details:

User name: Ram

Email: ram@gmail.com

Password: ram123

Role: Admin

User name: Akil

Email: akil@gmail.com

Password: 12345678

Role: Admin

User name: Rahul

Email: rahul@gmail.com

Password: rahul1234

Role: viewer

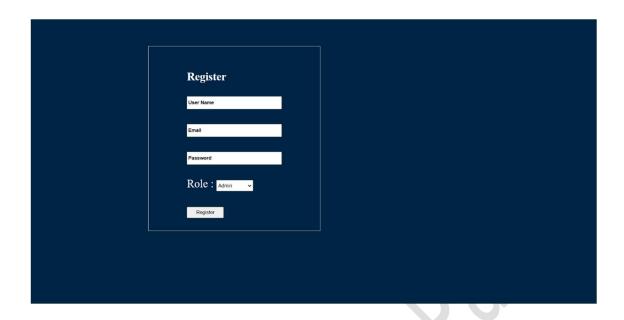
Index.jsp



Phase 1: User Registration and Login (Frontend & Backend)

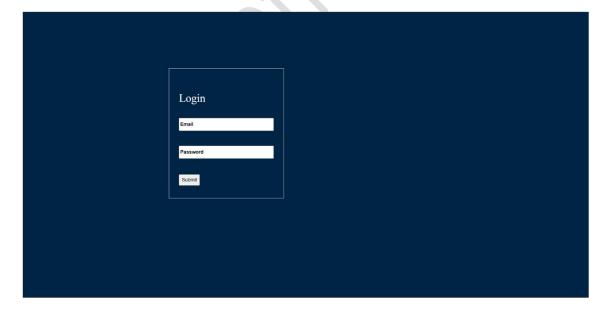
1. User Registration

- o Create a user registration form that captures user details (name, email, password) and role (Admin/Viewer).
- o Implement user registration logic in a Servlet:
 - Validate user data.
 - Store user data in the MySQL database.
 - Assign roles (Admin/Viewer).



2. User Login

- o Create a login page with username/email and password fields.
- o Implement login logic in a Servlet:
 - Authenticate users against the database.
 - Upon successful login, establish user sessions using cookies or HTTP sessions for role identification.



Phase 2: Admin Dashboard (Frontend & Backend)

1. Admin Dashboard

- Develop an Admin dashboard accessible only after successful login with the "Admin" role.
- o Implement functionalities for Admin to:

- Create new blog posts with title, content, and an option to upload images.
- Update existing blog posts (title, content, image).
- Delete blog posts.



Edit pOst



Phase 3: User Interface for Viewers (Frontend)

1. User Interface for Viewers

Search blog posts by title or date.(still not implement)

• View individual blog posts in detail, opening them in a new tab.

Viewer Dashboard	
Admin	Action
John Doe	View
ram	View
ramesh	View

Openend Admin John Doe in new tab



Video Link::

 $\underline{https://1drv.ms/v/s!Avd4fnSa-w6DgW1mPQPc4SLCoWBM}$

 $\frac{https://photos.onedrive.com/share/830EFB9A747E78F7!237?cid=830EFB9A747E78F7\&res}{Id=830EFB9A747E78F7!237\&authkey=!AGY9A9zhIsKhYEw&ithint=video}$