

Bahria University,

Karachi Campus



COURSE: WEB ENGINEERING
TERM: FALL 2024, CLASS: BSE- 5 (A/B)

PROJECT NAME:

BLOGGING APPLICATION

Engr. Adnan-u-Rahman / Engr. Ayesha Khan

Signed

Remarks:

Score:

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2. INTRODUCTION & PROBLEM

INTRODUCTION:

In the dynamic landscape of web development, the integration of modern technologies has given rise to versatile applications catering to diverse needs. Our Blogging Application, built on the MERN (MongoDB, Express.js, React, Node.js) stack, represents a sophisticated platform designed to streamline content creation, publication, and interaction within a digital community.

PROBLEM STATEMENT:

Traditional blogging platforms often face limitations in terms of user experience, flexibility, and real-time engagement. This project addresses these challenges by leveraging the MERN stack to create a robust, feature-rich, and user-friendly blogging application. The goal is to overcome common pitfalls in existing systems, offering an intuitive interface, dynamic content management, and enhanced user interaction. This application seeks to redefine the blogging experience by combining the power of MERN technologies with innovative features for both content creators and readers.

3. TECHNOLOGY

The application leverages cutting-edge technologies:

- **Frontend:** React, Redux, Jodit, HTML React Parser
- **Backend:** Node.js, Express.js, MongoDB
- **Authentication:** JWT, bcrypt, Otp Generator, Validator
- **Serverside Libraries:** Node mailer, Formidable, Date-and-Time, JWT-Decode, React-Hot-Toaster, body-parser, cookie-parser , cors , dotenv , mongoose, email js, validator
- **Frontend Libraries:** React, React router dom, react-redux , redux-thunk , moment js , jodit text editor , react hot toast , react helmet , axios , react-apexcharts , react-html-parser , html-to-text

4. FUNCTIONALITIES & FEATURES

Blogify encompasses a wide array of functionalities, including:

- User Authentication and Authorization
- Admin Authentication and Authorization
- Admin create blog Category and Tag
- Admin handle all Sub-Admin (Bloggers) and Admin can see Profile of Sub-Admin and do block/unblock Sub-Admin
- Article Publishing, Editing, and Deletion
- Articles are in pending mode unless Admin do not accept and publish them
- User like, dislike blogs and write comment also.
- Search Blog System
- Admin Panel for Comprehensive Content Management
- Real-Time Interaction with Articles
- Multi-Level User Access
- Graphical Insights into User Engagement
- Security Measures with JWT Tokens, bcrypt, and OTP Generation

5. MODULE DISTRIBUTION

- **Muhammad Shoaib Akhter Qadri:**

He is working on Frontend, backend with database. He is responsible for working on frontend with backend with database (Mongo DB Atlas) and work on different libraries for authentication etc. He is working to run applications on server side and client side also.

- **Muhammad Yahya:**

He is working on Frontend, and he has responsible to make responsive application and create different pages like home, 404 page, admin and sub-admin panel with different functionalities and feature like category, tags, comments, user, sub-admin and article post pages.

6. CODE

```
const validator =  
require('validator');
```

```
const adminModel =  
require('./models/adminModel');
```

```
const bcrypt = require('bcrypt');
```

```
const jwt =  
require('jsonwebtoken');
```

```
const formidable =  
require('formidable')
```

```
const userModel =  
require('./models/userModel');
```

```
const nodeMailer =  
require('nodemailer')
```

```
const fs = require('fs')
```

```
module.exports.admin_login =  
async (req, res) => {
```

```

const { email, password } =
req.body;

const error = {}

if (email &&
!validator.isEmail(email)) {

error.email = "please provide
your valid email"

if (!email) {

error.email = "please provide
your email";

if (!password) {

error.password = "please
provide your password"

if (Object.keys(error).length >
0) {

return res.status(400).json({
errorMessage: error })

} else {try {

const getAdmin = await
adminModel.findOne({ email
}).select('+password');

if (getAdmin) {

const matchPassword = await
bcrypt.compare(password,
getAdmin.password);

if (matchPassword) {

const token = jwt.sign({
id: getAdmin._id,
name: getAdmin.adminName,
role: getAdmin.role,
image: getAdmin.image
}, process.env.SECRET, {
expiresIn: '7d' });

res.status(200).cookie('blog_tok
en', token, {
expires: new Date(
Date.now() +
process.env.COOKIE_EXP *
24 * 60 * 60 * 1000),
httpOnly: true}).json({
successMessage: 'login
successful',
token}))} else {

return res.status(400).json({
errorMessage: { error:
>Password does not match"
}});}} else {

return res.status(400).json({
errorMessage: { error: "Email
does not exists" } });}} catch
(error) {

console.error(error);

return res.status(500).json({
errorMessage: { error: "Internal
server error" } });}}

module.exports.user_register =
async (req, res) => {

const formData = formidable()

formData.parse(req, async (err,
fields, files) => {if (err) {

return res.status(500).json({
errorMessage: { error: "form
data parse filed" } });} else {

const { name, email, password }
= fields

const errorData = {}

if (!name) {

errorData.name = 'Please
provide your name'

if (!email) {

errorData.email = 'Please
provide your email'

if (email &&
!validator.isEmail(email)) {

errorData.email = 'Please
provide your valid email'

if (!password) {

errorData.password = 'Please
provide your password'

if (Object.keys(files).length
=== 0) {

errorData.image = 'Please
provide your image'

if
(Object.keys(errorData).length
=== 0) {

try {

const getUser = await
userModel.findOne({ email })

if (getUser) {

return res.status(500).json({
errorMessage: { error: "Your
email already use" } });} else {

const otp =
Math.floor(Math.random() *
100000 + 345678)

const transporter =
nodeMailer.createTransport({

```

```

service: 'Gmail',
auth: {
  user:
    process.env.USER_EMAIL,
  pass:
    process.env.USER_PASSWORD
})
const mailOption = {
  from:
    process.env.USER_EMAIL,
  to: email,
  subject: ' Sending email blog',
  html: `

```

imageInfo: files,
otpCode: otp
 }, process.env.SECRET, {
 expiresIn:
 process.env.TOKEN_EXP
 })
const option = {
 expires: new Date(Date.now() +
 1 * 24 * 60 * 60 * 1000)
 res.status(201).cookie('emailVerifyToken', verifyEmailToken,
 option).json({ successMessage:
 "Check your email and submit
 otp" }))))
 } catch (error) {
 return res.status(500).json({
 errorMessage: { error: "Internal
 server error" } });
 } else {
 return res.status(400).json({
 errorMessage: errorData
 })
 }
 module.exports.verify_email =
 async (req, res) => {
 const { otp } = req.body
 const { emailVerifyToken } =
 req.cookies
 if (!otp) {
 res.status(404).json({
 errorMessage: 'please provide
 your otp' })
 } else {
 const { name, email, password,
 otpCode, imageInfo } = await

```



```

 jwt.verify(emailVerifyToken,
 process.env.SECRET)
 const imageName = Date.now()
 +
 imageInfo.image.originalFilename;
 const disPath = __dirname +
 `../../frontend/public/userImage/${imageName}`
 try {
 if (parseInt(otp) !== otpCode) {
 res.status(404).json({
 errorMessage: { error: 'please
 provide your valid otp' } })
 else {
 fs.copyFile(imageInfo.image.filePath, disPath, async (err) => {
 if (!err) {
 const createUser = await
 userModel.create({
 userName: name,
 email,
 loginMethod: 'manually',
 password,
 image:
 `http://localhost:3000/userImage/${imageName}`
 })
 const token = jwt.sign({
 id: createUser._id,
 email: createUser.email,

```



6


```

```

name: createUser.userName,
image: createUser.image,
role: createUser.role,
loginMethod:
createUser.loginMethod,
accessStatus:
createUser.accessStatus,

createdAt: createUser.createdAt
}, process.env.SECRET, {
expiresIn:
process.env.TOKEN_EXP})

const option = {

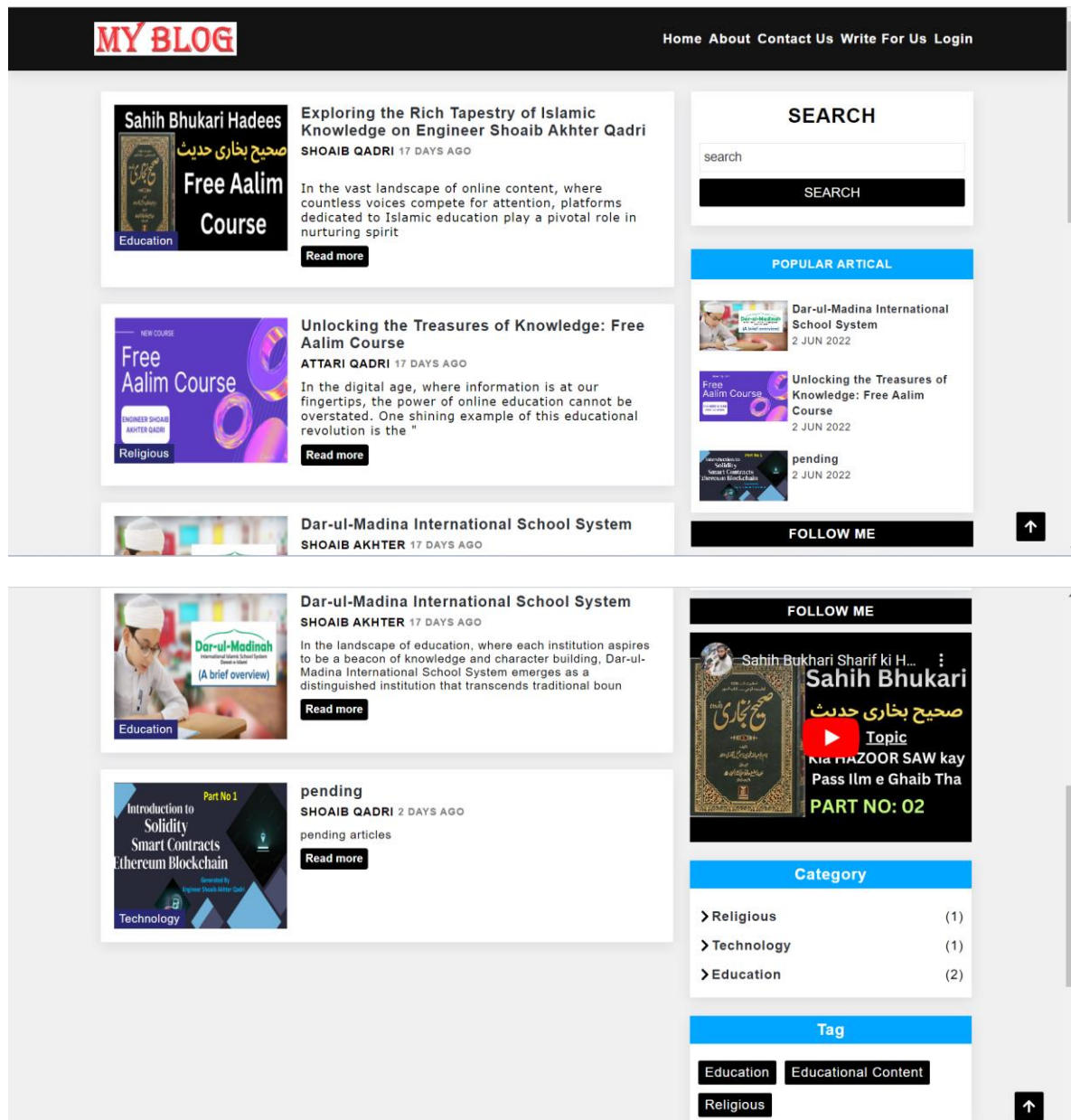
expires: new Date(Date.now() +
3 * 24 * 60 * 60 * 1000)}

res.clearCookie('emailVerifyToken')


res.status(201).cookie('blog_token', token, option).json({
successMessage: "Your register
successful"

```


7. INTERFACES




OLD ARTICAL



Dar-ul-Madina International School System
2 JUN 2020



Unlocking the Treasures of Knowledge: Free Aalim Course
2 JUN 2020



pending
2 JUN 2020

CATEGORY




- > Religious
- > Technology
- > Education

TAG


Education Educational Content

Religious


LINK


RECENT RECIPSE



pending
2 JUN 2020



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Created by **SHOAIB AKHTER**


HOME ABOUT CONTACT


MY BLOG

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[About](#)
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[Write For Us](#)
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Admin login


Email






Password








Login



Shoaib Akhter

[View site](#)





Shoaib Qadri
Jan 9, 2024

Dashborad


- Article >
- Category >
- Tag >
- All sub-admin




1
Visitoes




3+
Articles



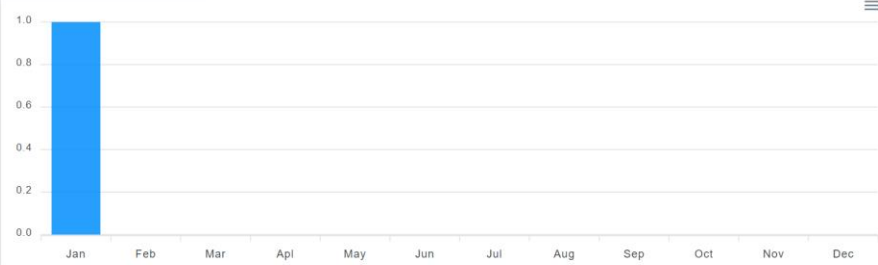
11+
Categories



32+
Tags



2
Sub Admins



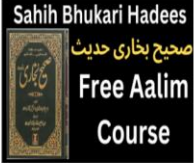
D
Shoaib Akhter

Dashborad
Article
Category
Tag
All sub-admin

View site
search

3
5
Shoaib Qadri
Jan 9, 2024

Articles (4)
search article
Add New




Sahih Bhukari Hadees
صحیح بخاری حدیث

Free Aalim Course

Exploring the Rich Tapestry of Islamic K

PUBLISHED




NEW COURSE

Free Aalim Course


Unlocking the Treasures of Knowledge: Fr

PUBLISHED



Dar-ul-Madina International School System
(A brief overview)

PUBLISHED



Introduction to Solidity Smart Contracts
Ethereum Blockchain

pending

PUBLISHED

D
Shoaib Akhter

Dashborad
Article
Category
All Category
Add Category
Tag
All sub-admin

View site
search

3
5
Shoaib Qadri
Jan 9, 2024

Category (22)
search article
Add New

Education
Technology
Health and Fitness
Business and Finance

Science
Food and Cooking
Entertainment
Sports

Travel
News and Current Events
Religious
Social Media

D
Shoaib Akhter

Dashborad
Article
Category
All Category
Add Category
Tag
All Tag
Add Tag
All sub-admin

View site
search

3
5
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Jan 9, 2024

Tags (33)
search article
Add New

Cooking Tips
Beauty
Tech News
Research Updates

Finance Tips
Travel
Restaurant
Technology

Entrepreneurship
Fitness Tips
Scientific Discoveries
Business Strategy

Mental Health
Recipes
Programming
Fashion

Education
Software
Nutrition
Educational Content

D
Shoaib Akhter

Dashborad
Article
Category
Tag
All sub-admin

View site
search

3
6
Shoaib Qadri
Jan 9, 2024

Sub Admin (2)
search article
User

No	Name	Email	Image	Action
1	Shoaib Akhter	shoaibakhter181422@gmail.com		Block Profile
2	Attari Qadri	attariqadri757@gmail.com		Block Profile

D
Shoaib Akhter

Dashborad
Article
Category
Tag
All sub-admin

View site
search

3
6
Shoaib Qadri
Jan 9, 2024

Add Article
All Article

Article title
article title

Article slug
article slug

Category
--select article category--

Tag
--select article tag--

Article text

B I U S
A T
x² x₂

Start writing...

CHARS: 0 WORDS: 0 POWERED BY JODIT

8. CONCLUSION

Blogify stands as a testament to the capabilities of modern web technologies. Its feature-rich environment, coupled with a secure and user-friendly design, positions it as a top-tier blogging application. The project successfully integrates multiple technologies to deliver a comprehensive solution for content creators and readers, making it a noteworthy contribution to the realm of online publishing.