A Major project report on

**PUBLIC BLOG APPLICATION USING MERN STACK**

Submitted to P. B. Siddhartha College of Arts & Science for the partial fulfillment of the requirements for the award of

**Degree of Bachelor of ComputerScience (Bsc-CAMS)**

**By**

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Under the esteemed guidance of

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Vijayawada – 520010

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**DECLARATION**

I **“G.RENUKA”** hereby declare that the project report entitled **“Public blogging website”** has been prepared by me in fulfillment of the requirement for the award of Degree of **BACHELOR OF SCIENCE.** In management department is a record of actual project work carried out by me under the guidance of **Mrs. V.Jhansi Lakshmi mam (Department of Computer science).**

I also declare that this project report is my original work and it has not been submitted to any other University for the award of any Degree or Diploma.

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**Vijayawada – 520010**



**DEPARTMENT OF COMPUTER SCIENCE**

CERTIFICATE

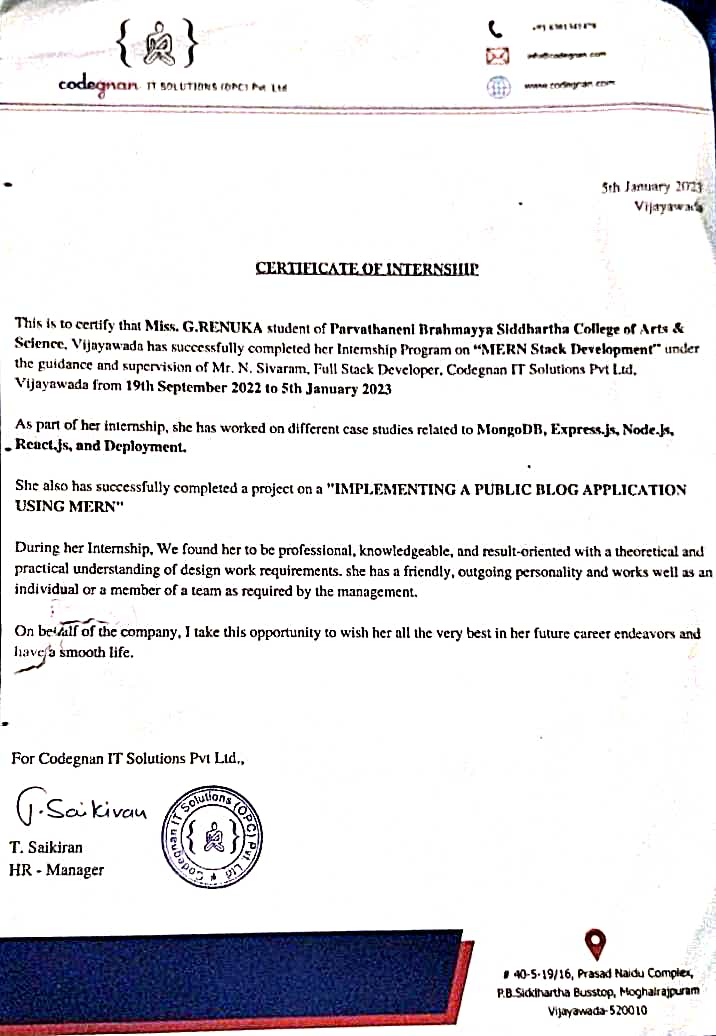
This is certified that project done in Computer science entitled with **“Public blog application using MERN STACK”**done by**G.RENUKA(203665)** for the partial fulfillment of the requirement for the award of degree Bachelor of Science and Arts as part of the curriculum during the academic year 2021 - 2023.

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**External examiner**



**ABSTRACT**

Blogging is as simple as obtaining a website and publishing original content on it. Tech-savvy bloggers can buy a domain name and build the website themselves. Those with less HTML knowledge can create an account with sites like WordPress that simplify the web design and publishing process.Blogs are usually simple websites. Older pieces may be archived in separate sections of the site, and there may be a separate page with contact info or a bio, but the blog itself is usually just a single page that can be scrolled through—similar to the news feed on social media sites like Facebook. As with a Facebook news feed, a blog displays the newest content at the top of the page.

Another unique feature of blogging is interlinking. This occurs when a blogger links to another person's blog within their own blog post. For example, if a music teacher maintains a blog, and they write a blog post about how to form a chord, they might link to a musician's blog to show an example of the chords in action. A political blogger may link to another politics blog and then discuss how they agree or disagree with a post on that blog. Interlinking, along with the comment section, fosters the sense of community that makes blogs unique.The purpose of online blogging system is to automate the existing manual syatem by the help of computarized equipments and full-fledged computer software, fulfilling their requirements, so that their valuabale data/information can be stored for a longer period of time with easy accessing and manipulation of the same. The required software and hardware are easily availbale and easy to work with.A blog, short for weblog, is a frequently updated web page used for **personal commentary or business content**. Blogs are often interactive and include sections at the bottom of individual blog posts where readers can leave comments.

Blogs have evolved dramatically in recent years and many have become central forums for public conversation and even journalism. Vanity Blogs, which are purely an individual's personal pulpit may, in most cases, be easily excluded from an encyclopedic record, but open multi-user multi-threading forums are an entirely different case. These forums have become more a Public Square than has ever existed and will, as a class, only grow in significance. Even as a matter of simple historic record, the significant multi-user blogs of today will be items of interest for future research, and a concise record and history of them should be a part of a project like Wikipedia.

WEBLOG is a combination of both Blog as well as Novels. Blog contain the Information of various things related to Technology, Education, News, International, Business, Sports, Entertainment and ongoing college activities. The main aim of this project is to provide data to students in only one site. Students can gather the information from one site as well as give their feedback and create their own blog. Students can post their views and thought and analyze themselves. Besides all such core functionalities, the application also includes features like FAQ, request, feedback etc. so as to provide a satisfactory user experience.

**INTRODUCTION**

MERN stands for MongoDB, Express, React, Node, after the four key technologies that make up the stack.

* MongoDB — document database
* Express(.js) — Node.js web framework
* React(.js) — a client-side JavaScript framework
* Node(.js) — the premier JavaScript web server

Express and Node make up the middle (application) tier. Express.js is a server-side web framework, and Node.js is the popular and powerful JavaScript server platform. Regardless of which variant you choose, ME(RVA)N is the ideal approach to working with JavaScript and JSON, all the way through.

**How does the MERN stack work?**

### The MERN architecture allows you to easily construct a three-tier architecture (front end, back end, database) entirely using JavaScript and JSON. Express.js and Node.js server tier

The next level down is the Express.js server-side framework, running inside a Node.js server. Express.js bills itself as a “fast, unopinionated, minimalist web framework for Node.js,” and that is indeed exactly what it is. Express.js has powerful models for URL routing (matching an incoming URL with a server function), and handling HTTP requests and responses.

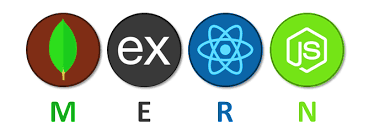
By making XML HTTP Requests (XHRs) or GETs or POSTs from your React.js front end, you can connect to Express.js functions that power your application. Those functions, in turn, use MongoDB’s Node.js drivers, either via callbacks or using promises, to access and update data in your MongoDB database.

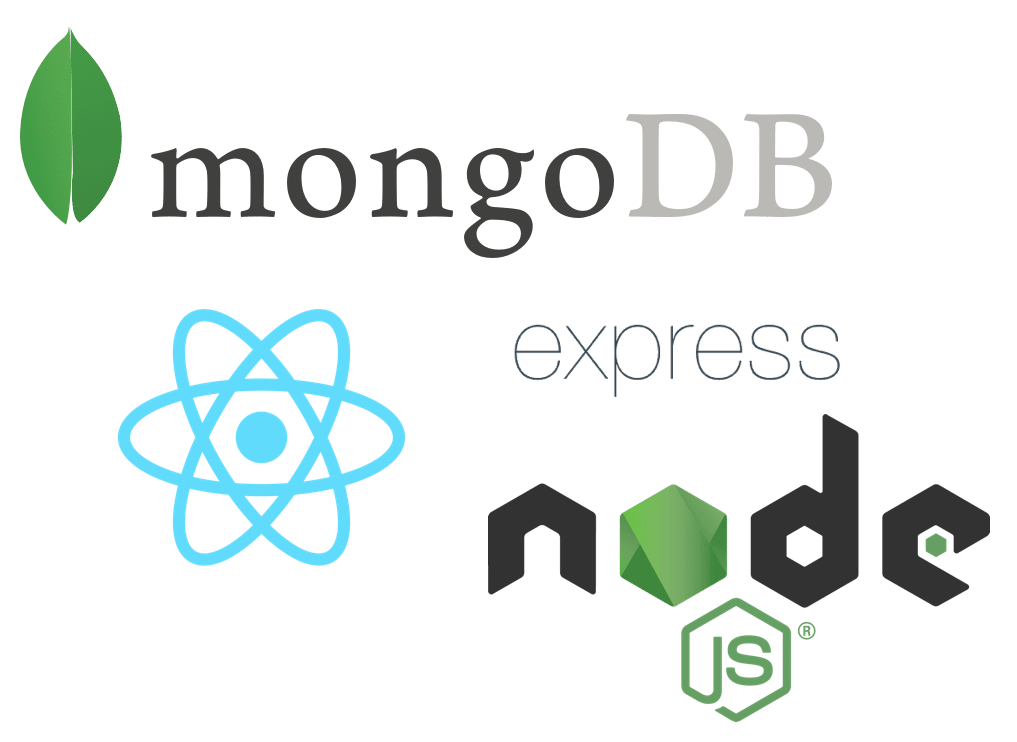
Individual expression has evolved into a new and useful form. Blogs have become an important form of emotional and informational release for a growing proportion of the population. Commencing with an overview of the development of the blog, this paper takes the reader through a journey of understanding, explaining why blogs are important, how they work, who writes, and who reads them. Ultimately, the paper explains how blogs can be used for research, the opportunities of using blogs as research input, as well as the problems this usage involves.

Blog Writers, Blog Contents, and Motivation Kumar, Novak, Raghavan and Tomkins (2004) studied 1.3 million bloggers in an endeavour to profile the blogosphere. They found that 75% of bloggers were aged 16-24 years. They also found that bloggers tended to focus on core themes within their age groups. Table 1 illustrates these findings and groupings of interests, found in US blogs. In addition to covering a large spectrum of interests in their blogs, bloggers take a very narrow, and in-depth, focus on the issues that interest them. Bloggers can work faster and communicate in greater depth than can regular media. For instance, bloggers were the first to alert the world to the Iraqi prisoner abuse (Rosenbloom, 2004), and the role of bloggers played a large part in the recent resignation of US Senator Trent Lott, due to his ill-placed comments (Yang, 2007). Blogs, therefore, have an underestimated level of power and influence. At the same time blogs have the ability to dramatically decrease “the power and authority of the traditional general-interest intermediaries, notably newspapers, magazines, and broadcasters” (Rosenbloom, 2004, p. 33). Table 1. Classification of blog types according to age and interests. From (Kumar et al., 2004, p. 37) Age % Blog Types Themes 1-3 0.5 Diary Mommy, Daddy, Nappies, Catnip, Purring, Playing, Mice 13-15 3.5 Diary, Interests (Celebrities) Jeremy Sumper, Emma Watson, TV, Web desgining, Mall 16-18 25.2 Diary, Interests (TV shows) Dream Street, High school, Talking on the phone, Brave New Girl, Drama club 19-21 32.8 Diary, Interests Dorm, College life, My tattoo, Pre-med 22-24 18.7 Interests (Entertainment), Diary Dumbeldore’s army, Long Island iced tea, bar hopping, fraternity, He-Man 25-27 8.4 Interests (Various), Diary, Consumers’ Critique Catherine Wheel, Dive bars, Grad school, Good beer 28-30 4.4 Interests (Various), Diary Hal Hartley, geocaching, Motherhood, SQL 31-33 2.4 Diary

**TOOLS AND TECHNOLIGIES USED**

* Sublime text
* Github
* Backend-Express,Node.js,MongoDB
* Frontend-Bootstrap,React,Java script,CSS





**REQUIREMENT ANALYSIS**

FUNCTIONAL vs NONFUCTIONAL REQUIREMENTS

Funtional Requirements Nonfuntional Requirements

Objective What the product does How the product works

Focus Focus on user requirements Focus on user expectations

Documentation in use case as a quality attribute

End Result Product featres Product properties

Essentiality Mandatory Not mandatory, but desirable

Origin type Defined by user Defined by developers or tech experts

Testing Component, API, UI testing

* Functional requirements define what a product must do, what its features and functions are.
* Nonfunctional requirements describe the general properties of a system. They are also known as *quality attributes*.

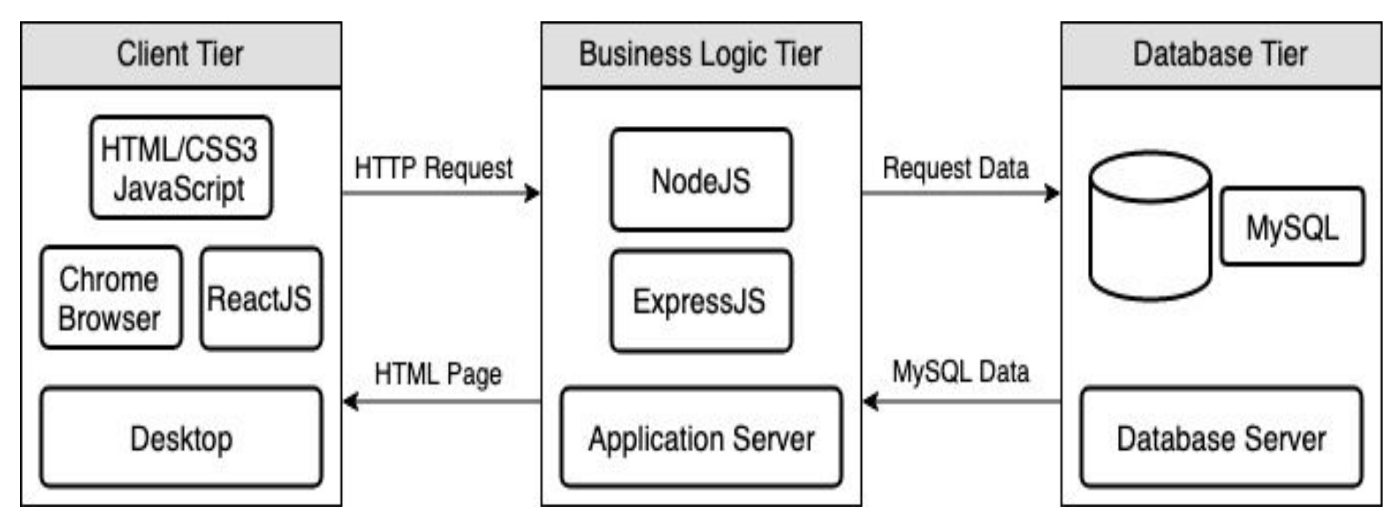
**Functional requirements** are product features or functions that developers must implement to enable users to accomplish their tasks. So, it’s important to make them clear both for the development team and the stakeholders. Generally, functional requirements describe system behavior under specific conditions. For example:

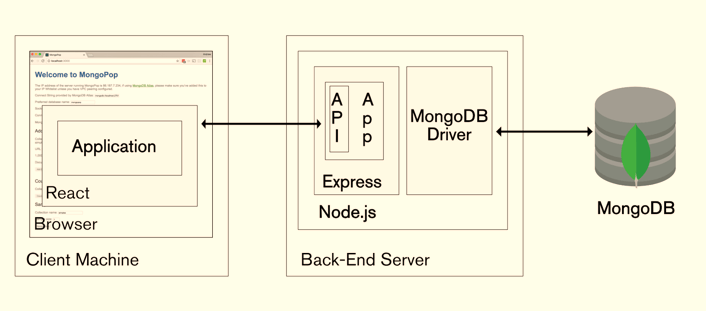
The system sends an approval request after the user enters personal information.

A search feature allows a user to hunt among various invoices if they want to credit an issued invoice.

The system sends a confirmation email when a new user account is created.

**SYSTEM DESIGN**





**Node JS:**

Node.js, written by Ryan dahl in 2009, is an amalgamation of the V8 JavaScript chrome engine, a I/O (Input/Output) API and an event loop [12]. Node.js utilizes event driven, non-blocking I/O model making it lightweight, coherent and ideal for data-intensive real-time web applications that run across distributed devices [13]. V8 provides Node.js with a boost in performance by performing straight compilation into native machine code instead of using an interpreter. [13] Node.js provides JavaScript developers with a unique opportunity as the backend program can be written using JavaScript. It avoids the inconvenience for JavaScript developers to learn other programming languages for the back end [14]. 3.1 Node.js Features Features of Node.js are as follows: 3.1.1 Asynchronous and Event Driven APIs of Node.js library are asynchronous which allows servers built on Node.js to move from an API to another without waiting for response. When there is a response to the previous API call, the events of Node.js notifies it [15]. As asynchronous I/O operations do not block the script execution, this allows applications to execute without being slowed down while performing I/O operations. This allows browsers to handle multiple requests from users while also responding to them. [13] 3.1.2 Modules Node.js was developed as a server runtime for JavaScript having access to the filesystem. Access to filesystem was lacking JavaScript which allowed Node.js to 9 implement a distinct way to maintain modules. Node.js implemented CommonJS which allowed JavaScript to have a module system in servers or domains outside of browsers. CommonJS gained popularity in the browser environments which was also helped by module bundlers like Browserify and Webpack.

**Express JS:**

Express was designed by TJ Holowaychuk who outlined Express as a web framework influenced by Sinatra, a web framework built on Ruby [17]. “Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications” as stated by Express website. [18]It is built upon Node.js core http module and connect components. Express provides libraries for core Node.js modules that are robustly tested and maintained. This helps developers to avoid the inconvenience of writing similar code for the same Node.js module while building applications. Express also allows for sophisticated reuse of code along with a Model-View-Controller (MVC)- like design for web applications. [19] 4.1 Philosophy of Express 4.1.1 Minimal Express limits the layer between the developer and the server. This allows developers to have freedom with implementation of their ideas. Express allows developers to use Express functionalities that are required for their applications while excluding functionalities that are not used. Thus, it helps to avoid complexity and bloating of applications. [17] 4.1.2 Flexible Express provides flexibility to projects as developers can decide on the third-party libraries and functionalities required for their applications. [19] 4.1.3 Web Application Framework Express is the back-end part of the web framework which can be merged with other services through web APIs. Also, Entire application can be built using back- 11 end rendering with Express making Express complete web application framework. [17] 4.2 Core of Express 4.2.1 Routing Routing is the process of determining the application response on finding a particular endpoint requested by the client. The endpoint is a URL with a HTTP request method. [20] Routing can be defined using Express methods that respond to certain HTTP requests for example App.get() handle get request and similarly App.post() handle POST requests.

**MongoDB:**

MongoDB is a flexible, scalable and document-oriented database. It is not a relational database. [25] It is based on a document data model where data is stored in key-value pairs. [26] The size of data stored by applications are expanding which has brought the need for scaling databases of applications. This leaves developers with two choices, either scaling up or scaling out. Scaling up requires expensive and big machines and in due course even that machine will not be enough. The other option is scaling out for which MongoDB was developed. The document data model of MongoDB helps to slice data across several servers. The maintenance of data and load are taken care of by MongoDB along with rearranging data and routing operations to the expected server. [25] MongoDB not only allows users to perform database operations but also has features that make it unique from other databases. These features are following • MongoDB has common sub-indexes and gives distinct, composite, geospatial and complete text indexing abilities. Sub-indexes on hierarchical design are supported, enabling developers to have the capability to model in procedures that complement their application. • MongoDB offers a platform for data integration built on the principle of data production channels. Aggregation channels allow you to create complex analytics engines by manipulating data on the server side in a sequence of steps, maximizing the benefits of database optimizations. • MongoDB allows time-to-live (TTL) collections for data ought to expire after a specified period, such as meetings, and fixed-size (capped) collections for data that should be retained indefinitely, such as logs. MongoDB also supports fragmented indexes that are restricted to documents that meet a defined requirements filter, which improves performance and reduces the amount of storage needed. • MongoDB provides an intuitive protocol for storing massive files and their metadata. [25] 13 6 Technology Used 6.1 Visual Studio Code Virtual Studio Code is an efficient code editor with built-in support for JavaScript and Node.js and supported across the major operating system. [27] It has extensions built-in which enables to edit application code in a manageable and efficient way. It also comes with extensions that are helpful in catching syntax errors during the programming phase along with debugging features that helps to avoid crashing of application. [27] 6.2 NPM Npm is the largest software registry used by open-source developers to distribute and use packages. Organizations can manage packages on their own for private development of their applications. It consists of three unique components which are the website, the Command Line Interface (CLI) and the registry. Developers use the website to find packages as per their need, the CLI to communicate with npm while the registry is a common database of JavaScript software along with meta-information surrounding it. Npm can also be used to limit access to certain developers, maintain versions of code and its dependencies and finding developers pursuing same projects. [28] 6.3 Bootstrap Bootstrap is a popular HTML, Cascading Style Sheet (CSS) and JavaScript framework used for creating websites that are responsive and mobile friendly. Bootstrap was developed in 2010 by two developers Mark Otto, Jacob Thornton. Formerly known as Twitter Bootstrap, bootstrap has gone through many updates and finally today we have Bootstrap 5. Bootstrap is used by around more than one fourth of the world's websites roughly. [29] 14 7 Implementation Implementation of the blog project was done in two phases. The first phase was for designing the User Interface of the application and the second phase was for taking in user input, saving it in the database and displaying it back to the user with functionality using which the user can view, modify and delete their blog. The blog project was initiated with npm and Express, ejs and mongoose were installed. The folder structure of the project is shown in figure 2.

**SAMPLE CODE**

FOR IMAGES UPLOAD:

import React, { useRef, useState, useEffect } from 'react';

import './ImageUpload.css';

const ImageUpload = props => {

const [file, setFile] = useState();

const [previewUrl, setPreviewUrl] = useState();

const [isValid, setIsValid] = useState(false);

const filePickerRef = useRef();

useEffect(() => {

if (!file) {

return;

}

const fileReader = new FileReader();

fileReader.onload = () => {

setPreviewUrl(fileReader.result);

};

fileReader.readAsDataURL(file);

}, [file]);

const pickedHandler = event => {

let pickedFile;

let fileIsValid = isValid;

if (event.target.files && event.target.files.length === 1) {

pickedFile = event.target.files[0];

setFile(pickedFile);

setIsValid(true);

fileIsValid = true;

} else {

setIsValid(false);

fileIsValid = false;

}

props.onInput(props.id, pickedFile, fileIsValid); return file

};

const pickImageHandler = () => {

filePickerRef.current.click();

};

return (

<div className="">

<input

id={props.id}

name={props.name}

ref={filePickerRef}

style={{ display: 'none' }}

type="file"

accept=".jpg,.png,.jpeg"

onChange={pickedHandler}

/>

<div className={`image-upload ${props.center && 'center'}`}>

{/\* {!previewUrl && <p>Please pick an image.</p>} \*/}

<button type="button" className="btn btn-outline-primary" onClick={pickImageHandler}>

PICK IMAGE

</button>

{previewUrl && <div className="image-upload\_\_preview">

<img src={previewUrl} alt="Preview" />

</div>}

{!previewUrl && props.value && <div className="image-upload\_\_preview">

<img src={props.value} alt="Preview" />

</div>}

</div>

{!isValid && <p>{props.errorText}</p>}

</div>

);

};

export default ImageUpload;

AUTHENTICATION:

import Axios from 'axios';

import React, { Component } from 'react'

import { withRouter } from 'react-router-dom'

import validateForm from '../../utils/validateform'

import validEmailRegex from '../../utils/emailRegex'

import './Auth.css'

import { AuthContext } from '../../context/auth-context'

import Spinner from '../../Containers/Spinner/Spinner';

export class Auth extends Component {

static contextType = AuthContext

constructor(props) {

super(props)

this.state = {

user: {

email: '',

password: ''

},

error: {

message: '',

code: ''

},

isloading: false,

isLoginMode: true,

errors: {

email: '',

password: ''

}

}

}

mySubmitHandler = (event) => {

this.setState(pre => ({

isloading: true

}))

const auth = this.context

event.preventDefault();

if (validateForm(this.state.errors)) {

} else {

}

if (this.state.isLoginMode) {

Axios.post('/user/login', this.state.user)

.then(response => {

this.setState(pre => ({

isloading: false

}))

this.props.history.push('/')

auth.login(response.data.userId, response.data.token);

return Axios.get('/profile/viewprofile')

}).then(data => {

let profile = data.data.profile.username

localStorage.setItem(

'profileData',

JSON.stringify({

"username": profile

}))

}).catch(e => {

this.setState({

isloading: false,

error: {

...this.state.error, message: e.response.data.message,

code: e.response.status

}

});

})

}

else {

this.setState(pre => ({

isloading: true

}))

Axios.post('/user/signup', this.state.user).then(response => {

this.setState(pre => ({

isloading: false

}))

})

.catch(e => {

this.setState({ error: true });

})

}

this.setState({

user: { ...this.state.user, email: '', password: '' }

});

}

myChangeHandler = (event) => {

let nam = event.target.name;

let val = event.target.value;

let errors = this.state.errors;

const { name, value } = event.target;

switch (name) {

case 'email':

if (value.length === 0) {

errors.email =

value.length < 5

? 'Email is Required!'

: '';

break;

}

if (value.length > 0) {

errors.email =

validEmailRegex.test(value)

? ''

: 'Email is not valid!';

break;

}

break;

case 'password':

if (value.length > 0) {

errors.password =

value.length < 6

? 'Password must be 6 characters long!'

: '';

}

if (value.length === 0) {

errors.password =

value.length === 0

? 'Password is required!'

: '';

}

break;

default:

break;

}

this.setState({ errors, user: { ...this.state.user, [nam]: val } }, () => {

});

}

switchLoginhandler = () => {

this.setState(pre => ({

isLoginMode: !pre.isLoginMode

}))

}

render() {

let isLoading

let iserror

if (this.state.isloading) {

isLoading = (

<>

<div className="container loading">

<div className="mar-20">

<Spinner />

</div>

</div>

</>

)

}

if (this.state.error.code) {

iserror = (

<>

<div className="container error container-short">

<div className="mar-20">

<h5>Error Code - {this.state.error.code}</h5>

<h4>Error Message - {this.state.error.message}</h4>

</div>

</div>

</>

)

}

return (<>

{isLoading}

{iserror}

<div className="container container-short py-5">

<h1 className="pt-2 py-2">{this.state.isLoginMode ? 'Login ' : 'Sign Up'}</h1>

<hr></hr>

<form onSubmit={this.mySubmitHandler} className="pt-4">

<div className="form-group">

<label htmlFor="email">Email </label>

<input

type='email'

name='email'

value={this.state.user.email}

className={"form-control " + (this.state.errors.email ? 'is-invalid' : '')}

placeholder="Enter your email"

required

onChange={this.myChangeHandler}

/>

{this.state.errors.email.length > 0 &&

<div className="mt-1"><span className='error text-danger'>{this.state.errors.email}</span></div>}

</div>

<div className="form-group">

<label htmlFor="password">Password </label>

<input

type='password'

name='password'

value={this.state.user.password}

className={"form-control " + (this.state.errors.password ? 'is-invalid' : '')}

placeholder="Enter your Password"

required="required"

data-error="Please enter your full name."

onChange={this.myChangeHandler}

/>

{this.state.errors.password.length > 0 &&

<div className="mt-1"> <span className='error text-danger'>{this.state.errors.password}</span></div>}

</div>

<div className="form-group">

<button style={{ marginRight: '15px' }}

type='submit'

className="btn btn-primary"

disabled={this.state.user.email && this.state.user.password

&& (validateForm(this.state.errors)) ? '' : 'disabled'}

>

{this.state.isLoginMode ? 'Login' : 'Sign Up'}

</button>

<button

type='button'

className="btn btn-primary"

onClick={this.switchLoginhandler}

>Switch to {this.state.isLoginMode ? 'Sign Up' : 'Login'} </button>

</div>

</form>

</div>

</>

)

}

}

export default withRouter(Auth)

CHECKING AUTHENTICATION:

const jwt = require("jsonwebtoken");

module.exports = (req, res, next) => {

try {

const token = req.headers.authorization.split(" ")[1];

const decodedToken = jwt.verify(token, "secret\_this\_should\_be\_longer");

req.userData = { email: decodedToken.email, userId: decodedToken.userId };

next();

} catch (error) {

res.status(401).json({ message: "Auth failed!" });

}

};

ROUTES:

const express = require('express')

const Post = require('../models/post')

const router = new express.Router()

const multer = require("multer");

const checkAuth = require("../middlewares/check-auth");

const MIME\_TYPE\_MAP = {

"image/png": "png",

"image/jpeg": "jpg",

"image/jpg": "jpg",

"image/gif": "gif"

};

const storage = multer.diskStorage({

destination: (req, file, cb) => {

console.log(req,file)

const isValid = MIME\_TYPE\_MAP[file.mimetype];

let error = new Error("Invalid mime type");

if (isValid) {

error = null;

}

cb(error, "images");

},

filename: (req, file, cb) => {

const name = file.originalname

.toLowerCase()

.split(" ")

.join("-");

console.log(name)

const ext = MIME\_TYPE\_MAP[file.mimetype];

cb(null, name + "-" + Date.now() + "." + ext);

}

});

router.post("",

checkAuth,

multer({ storage: storage }).single("image"),

(req, res, next) => {

console.log(req.body)

const url = req.protocol + "://" + req.get("host")

console.log(url)

const post = new Post({

title: req.body.title,

content: req.body.content,

imagePath: url + "/images/" + req.file.filename,

creator: req.userData.userId,

postDate: req.body.postDate,

})

console.log(post)

post.save().

then(post => {

if(post){

res.status(201).json({

message: "Post added successfully",

post: {

...post,

id: post.\_id

}

})

}

if(!post){

res.status(404).json({

message: "Error Adding Post",

})

}

})

.catch(e => {

console.log(e)

res.status(501).json({ message: "Error Adding Post"+e });

})

})

router.put(

"/:id",

checkAuth,

multer({ storage: storage }).single("image"),

(req, res, next) => {

let imagePath = req.body.imagePath;

if (req.file) {

const url = req.protocol + "://" + req.get("host");

imagePath = url + "/images/" + req.file.filename

}

console.log("90",req.body)

const post = new Post({

\_id: req.body.id,

title: req.body.title,

content: req.body.content,

imagePath: imagePath,

creator: req.userData.userId

});

console.log("98---------------------",post);

Post.updateOne(

{ \_id: req.params.id, creator: req.userData.userId },

post

).then(result => {

if(result){

res.status(200).json({ message: "Update successful!" });

}

else {

res.status(500).json({ message: "Error Upating Post" });

}

});

}

);

router.get("/mypost",

checkAuth,

(req, res, next) => {

Post.find({creator: req.userData.userId}).then(post => {

if (post) {

res.status(200).json({

message: "Posts fetched successfully!",

posts: post

});

} else {

res.status(404).json({ message: "Post not found!" });

}

})

.catch(e=>{

console.log(e)

});

});

router.get("", (req, res, next) => {

Post.find().then(documents => {

if(documents){

res.status(200).json({

message: "Posts fetched successfully!",

posts: documents

});

}

else{

res.status(404).json({ message: "Post not found!" });

}

});

});

router.get("/:id", (req, res, next) => {

Post.findById(req.params.id).then(post => {

if (post) {

res.status(200).json(post);

} else {

res.status(404).json({ message: "Post not found!" });

}

});

});

router.delete("/:id", checkAuth, (req, res, next) => {

Post.deleteOne({ \_id: req.params.id, creator: req.userData.userId }).then(

result => {

console.log(result);

if (result.n > 0) {

res.status(200).json({ message: "Deletion successful!" });

} else {

return res.status(401).json({ message: "Not authorized!!" });

}

}

);

});

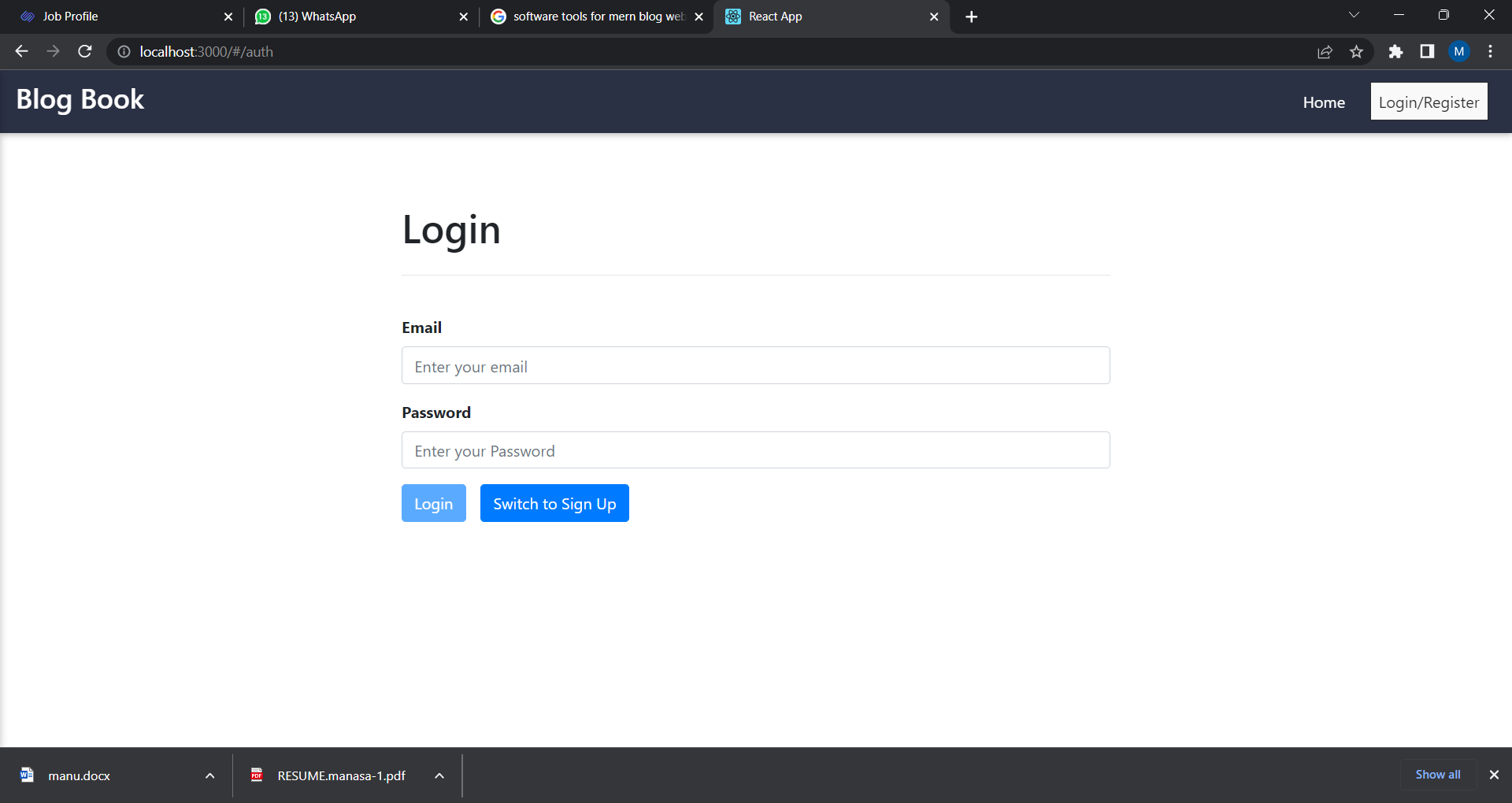
module.exports = router

**DATABASE:**

|  |
| --- |
| const mongoose = require('mongoose'); |
|  |  |
|  | mongoose.Promise = global.Promise; |
|  |  |
|  | const url = "mongodb+srv://MERNSTACK:176165@cluster0.pvezxaj.mongodb.net/articles?retryWrites=true&w=majority" |
|  | // Connect MongoDB at default port 27017. |
|  | let mong = mongoose.connect(url, { |
|  | useNewUrlParser: true, |
|  | useCreateIndex: true, |
|  | useUnifiedTopology: true |
|  | }, (err) => { |
|  | if (!err) { |
|  | console.log('MongoDB Connection Succeeded.') |
|  | } else { |
|  | console.log('Error in DB connection: ' + err) |
|  | } |
|  | });  PACKAGES USED:  {  "name": "blogging-app-using-mern",  "version": "0.1.0",  "lockfileVersion": 2,  "requires": true,  "packages": {  "": {  "name": "blogging-app-using-mern",  "version": "0.1.0",  "dependencies": {  "@testing-library/jest-dom": "^4.2.4",  "@testing-library/react": "^9.3.2",  "@testing-library/user-event": "^7.1.2",  "axios": "^0.20.0",  "bootstrap": "^4.5.2",  "jquery": "^3.5.1",  "moment": "^2.29.0",  "react": "^16.13.1",  "react-dom": "^16.13.1",  "react-router-dom": "^5.2.0",  "react-scripts": "3.4.3"  },  "devDependencies": {  "gh-pages": "^3.1.0"  }  },  "node\_modules/@babel/code-frame": {  "version": "7.8.3",  "resolved": "https://registry.npmjs.org/@babel/code-frame/-/code-frame-7.8.3.tgz",  "integrity": "sha512-a9gxpmdXtZEInkCSHUJDLHZVBgb1QS0jhss4cPP93EW7s+uC5bikET2twEF3KV+7rDblJcmNvTR7VJejqd2C2g==",  "dependencies": {  "@babel/highlight": "^7.8.3"  }  },  "node\_modules/@babel/compat-data": {  "version": "7.11.0",  "resolved": "https://registry.npmjs.org/@babel/compat-data/-/compat-data-7.11.0.tgz",  "integrity": "sha512-TPSvJfv73ng0pfnEOh17bYMPQbI95+nGWc71Ss4vZdRBHTDqmM9Z8ZV4rYz8Ks7sfzc95n30k6ODIq5UGnXcYQ==",  "dependencies": {  "browserslist": "^4.12.0",  "invariant": "^2.2.4",  "semver": "^5.5.0"  }  },  "node\_modules/@babel/core": {  "version": "7.9.0",  "resolved": "https://registry.npmjs.org/@babel/core/-/core-7.9.0.tgz",  "integrity": "sha512-kWc7L0fw1xwvI0zi8OKVBuxRVefwGOrKSQMvrQ3dW+bIIavBY3/NpXmpjMy7bQnLgwgzWQZ8TlM57YHpHNHz4w==",  "dependencies": {  "@babel/code-frame": "^7.8.3",  "@babel/generator": "^7.9.0",  "@babel/helper-module-transforms": "^7.9.0",  "@babel/helpers": "^7.9.0",  "@babel/parser": "^7.9.0",  "@babel/template": "^7.8.6",  "@babel/traverse": "^7.9.0",  "@babel/types": "^7.9.0",  "convert-source-map": "^1.7.0",  "debug": "^4.1.0",  "gensync": "^1.0.0-beta.1",  "json5": "^2.1.2",  "lodash": "^4.17.13",  "resolve": "^1.3.2",  "semver": "^5.4.1",  "source-map": "^0.5.0"  },  "engines": {  "node": ">=6.9.0"  },  "funding": {  "type": "opencollective",  "url": "https://opencollective.com/babel"  }  },  "node\_modules/@babel/core/node\_modules/debug": {  "version": "4.2.0",  "resolved": "https://registry.npmjs.org/debug/-/debug-4.2.0.tgz",  "integrity": "sha512-IX2ncY78vDTjZMFUdmsvIRFY2Cf4FnD0wRs+nQwJU8Lu99/tPFdb0VybiiMTPe3I6rQmwsqQqRBvxU+bZ/I8sg==",  "deprecated": "Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a low-severity ReDos regression when used in a Node.js environment. It is recommended you upgrade to 3.2.7 or 4.3.1. (https://github.com/visionmedia/debug/issues/797)",  "dependencies": {  "ms": "2.1.2"  },  "engines": {  "node": ">=6.0"  },  "peerDependenciesMeta": {  "supports-color": {  "optional": true  }  }  },  "node\_modules/@babel/core/node\_modules/json5": {  "version": "2.1.3",  "resolved": "https://registry.npmjs.org/json5/-/json5-2.1.3.tgz",  "integrity": "sha512-KXPvOm8K9IJKFM0bmdn8QXh7udDh1g/giieX0NLCaMnb4hEiVFqnop2ImTXCc5e0/oHz3LTqmHGtExn5hfMkOA==",  "dependencies": {  "minimist": "^1.2.5"  },  "bin": {  "json5": "lib/cli.js"  },  "engines": {  "node": ">=6"  }  },  "node\_modules/@babel/core/node\_modules/source-map": {  "version": "0.5.7",  "resolved": "https://registry.npmjs.org/source-map/-/source-map-0.5.7.tgz",  "integrity": "sha1-igOdLRAh0i0eoUyA2OpGi6LvP8w=",  "engines": {  "node": ">=0.10.0"  }  },  "node\_modules/@babel/generator": {  "version": "7.9.0",  "resolved": "https://registry.npmjs.org/@babel/generator/-/generator-7.9.0.tgz",  "integrity": 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It is recommended you upgrade to 3.2.7 or 4.3.1. (https://github.com/visionmedia/debug/issues/797)",  "dependencies": {  "ms": "2.1.2"  },  "engines": {  "node": ">=6.0"  },  "peerDependenciesMeta": {  "supports-color": {  "optional": true  }  }  },  "node\_modules/@babel/helper-create-class-features-plugin/node\_modules/lodash": {  "version": "4.17.20",  "resolved": "https://registry.npmjs.org/lodash/-/lodash-4.17.20.tgz",  "integrity": "sha512-PlhdFcillOINfeV7Ni6oF1TAEayyZBoZ8bcshTHqOYJYlrqzRK5hagpagky5o4HfCzzd1TRkXPMFq6cKk9rGmA=="  },  "node\_modules/@babel/helper-create-class-features-plugin/node\_modules/source-map": {  "version": "0.5.7",  "resolved": "https://registry.npmjs.org/source-map/-/source-map-0.5.7.tgz",  "integrity": "sha1-igOdLRAh0i0eoUyA2OpGi6LvP8w=",  "engines": {  "node": ">=0.10.0"  }  },  "node\_modules/@babel/helper-create-regexp-features-plugin": {  "version": "7.10.4",  "resolved": "https://registry.npmjs.org/@babel/helper-create-regexp-features-plugin/-/helper-create-regexp-features-plugin-7.10.4.tgz",  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**TESTING**

LOGIN PAGE:



## Web Testing Checklists

1. **Functionality Testing**
2. [Usability testing](https://www.softwaretestinghelp.com/usability-testing-guide/)
3. Interface testing

### #1) Functionality Testing

Test for – all the links in web pages, database connections, forms used for submitting or getting information from the user in the web pages, Cookie testing, etc.

**Check out all the links:**

* Test the outgoing links from all the pages to the specific domain under test.
* Test all internal links.
* Test links jumping on the same page.
* Test links are used to send emails to admin or other users from web pages.
* Test to see if there are any orphan pages.
* Finally, link checking includes, checking for broken links in all the above-mentioned links.

**Test forms on all pages:**Forms are an integral part of any website. Forms are used to receive information from users and interacting with them. So what should be checked in these forms?

* First, check all the validations in each field.
* Check for default values in the fields.
* Wrong inputs in the forms to the fields in the forms.
* Options to create forms, if any, form deletes a view or modify the forms.

Let’s take an example of the search engine project currently I am working on. In this project, we have advertiser and affiliate signup steps. Each sign-up step is different but it’s dependent on the other steps.

So the signup flow should be executed correctly. There are different field validations like email Ids, User financial info validations, etc. All these validations should get checked in manual or automated web testing.

**Cookie Testing:**Cookies are small files stored on the user’s machine. These are basically used to maintain the session – mainly the login sessions. Test the application by enabling or disabling the cookies in your browser options.

Test if the cookies are encrypted before writing to the user machine. If you are testing session cookies (i.e. cookies that expire after the session ends) check for login sessions and user stats after the session ends. Check the effect on application security by deleting the cookies. (I will soon write a separate article on cookie testing as well)

**Database:**Testing will be done on database integrity.

### #2) Usability Testing

Usability testing is the process by which the human-computer interaction characteristics of a system are measured, and weaknesses are identified for correction.

• Ease of learning  
• Navigation  
• Subjective user satisfaction  
• General Appearance

**Test for Navigation:**

Navigation means how a user surfs the web pages, different controls like buttons, boxes, or how the user uses the links on the pages to surf different pages.

**Usability Testing includes the following:**

* The website should be easy to use.
* The instructions provided should be very clear.
* Check if the instructions provided are perfect to satisfy its purpose.
* The main menu should be provided on each page.
* It should be consistent enough.

**Content Checking:**Content should be logical and easy to understand. Check for spelling errors. The usage of dark colors annoys the users and should not be used in the site theme.

You can follow some standard colors that are used for web pages and content building. These are the commonly accepted standards like what I mentioned above about annoying colors, fonts, frames, etc.

Content should be meaningful. All the anchor text links should be working properly. Images should be placed properly in proper sizes.

These are some of the basic important standards that should be followed in web development. Your task is to validate everything for UI testing.

**Other user information for user help:**

Like the search option, the sitemap also helps with files, etc. The sitemap should be available with all the links on websites with a proper tree view of navigation. Check for all links on the sitemap.

The “Search in the site” option will help users to find content pages that they are looking for easily and quickly. These are all optional items and if present they should be validated.

### #3) Interface Testing

In web testing, the server-side interface should be tested. This can be done by verifying that the communication is done properly. The compatibility of the server with software, hardware, network, and database should be tested.

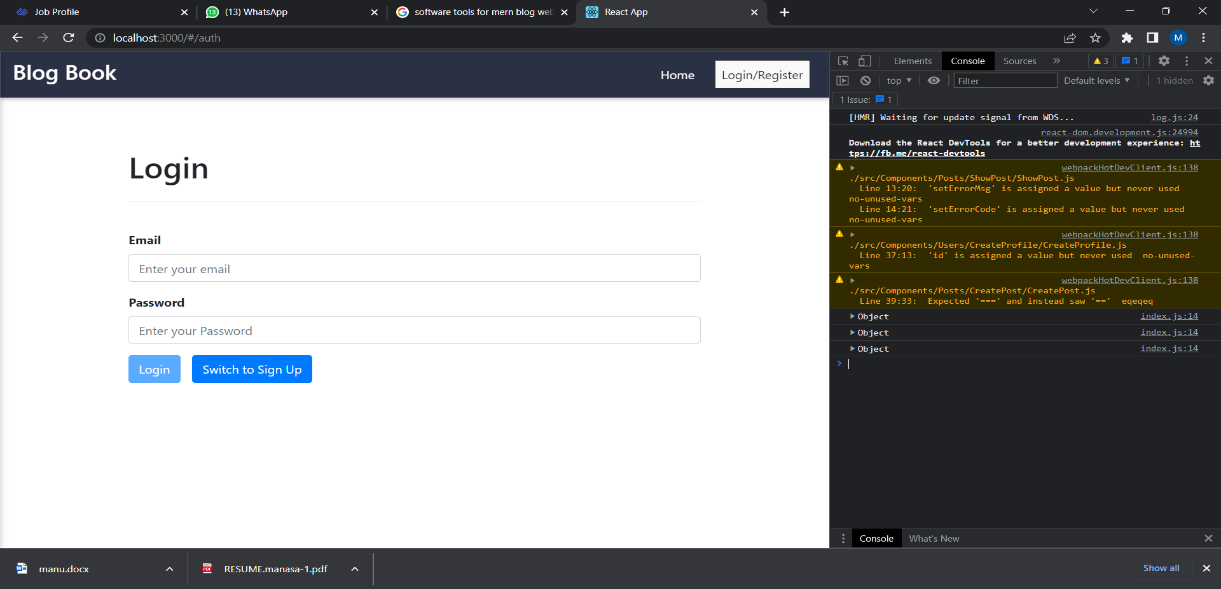
**The main interfaces are:**

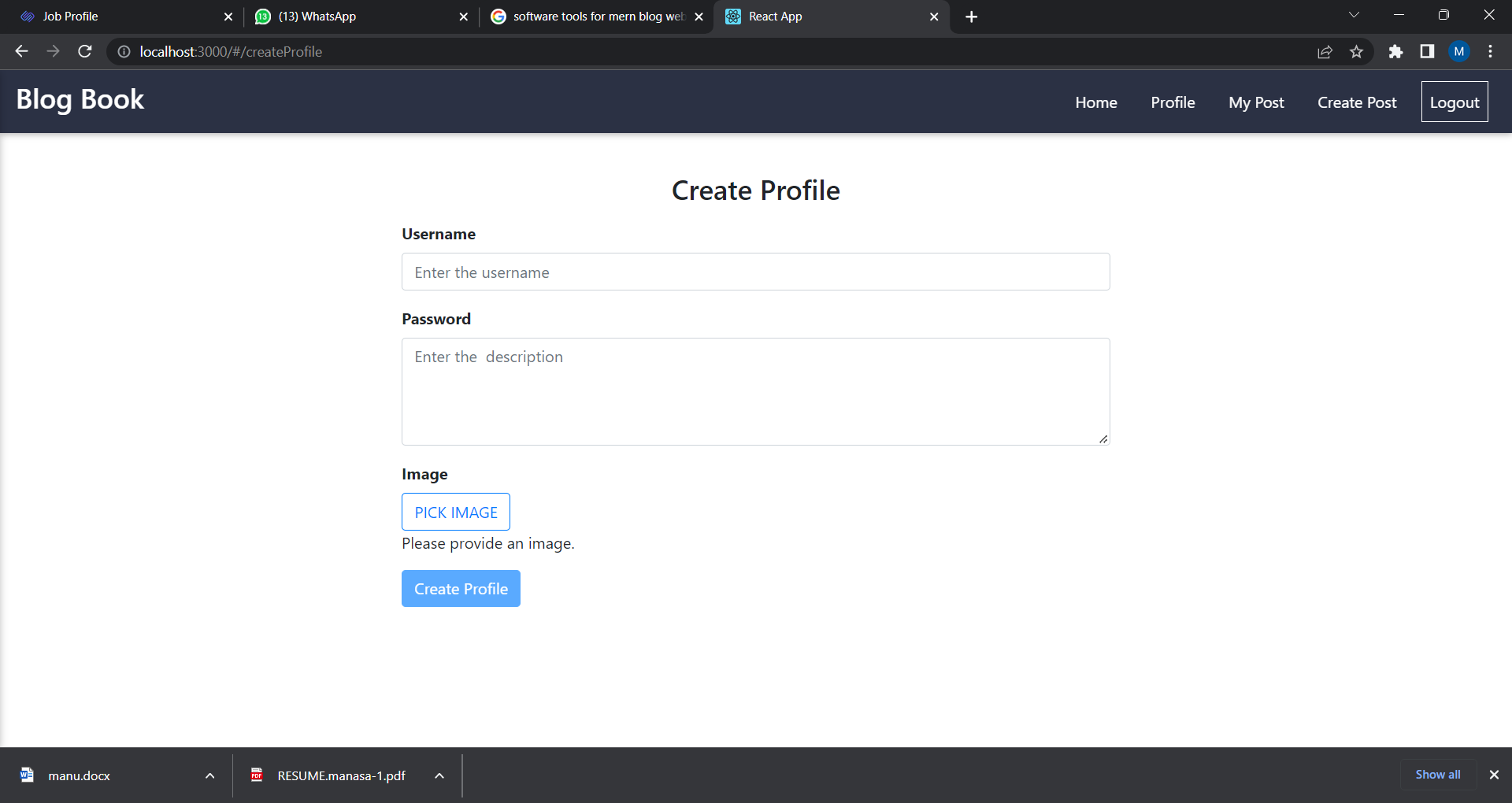
* Web server and application server interface
* Application server and Database server interface.

Check if all interactions between these servers are executed and errors are handled properly. If the database or web server returns an error message for any query by the application server then the application server should catch and display these error messages appropriately to the users.

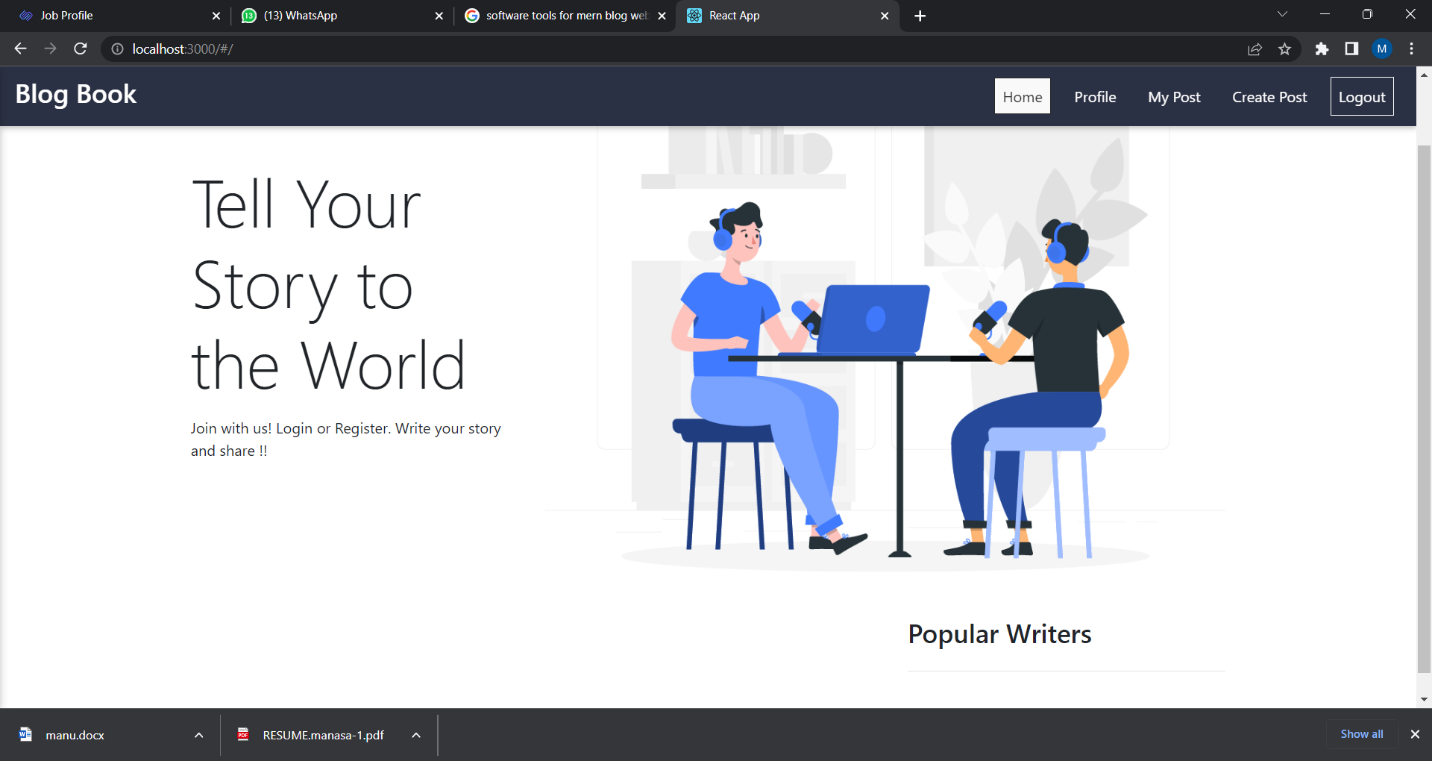
Check what happens if the user interrupts any transaction in-between. Check what happens if the connection to the webserver is reset in between?

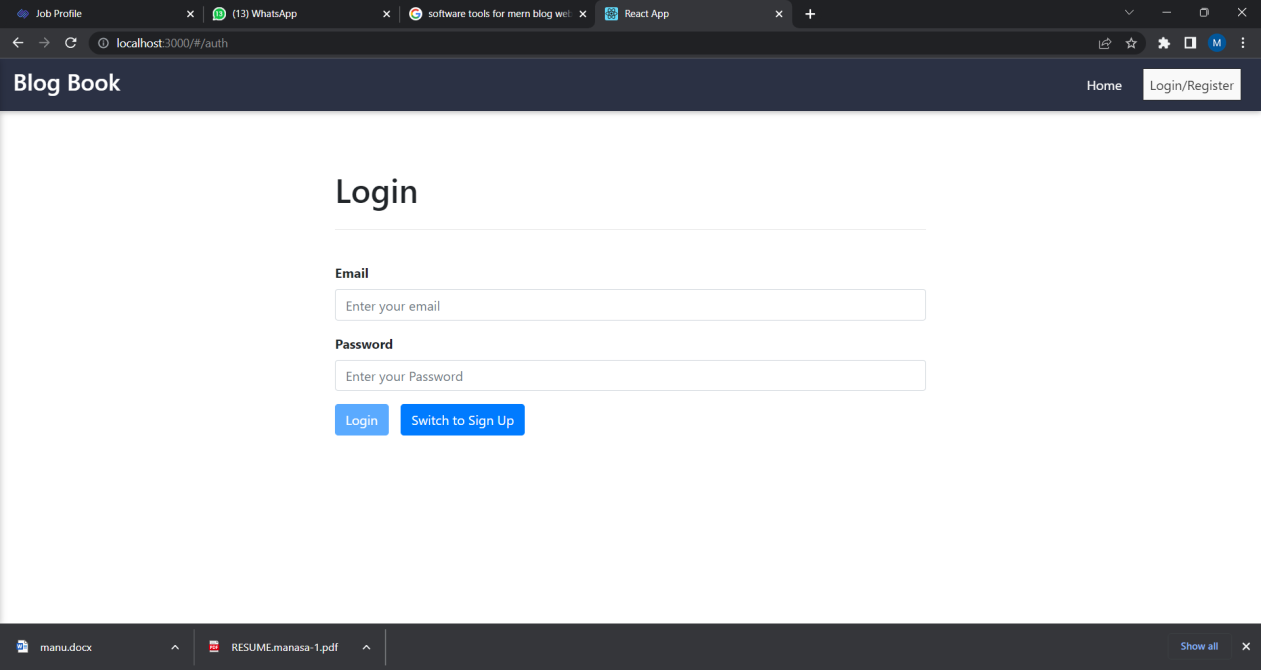
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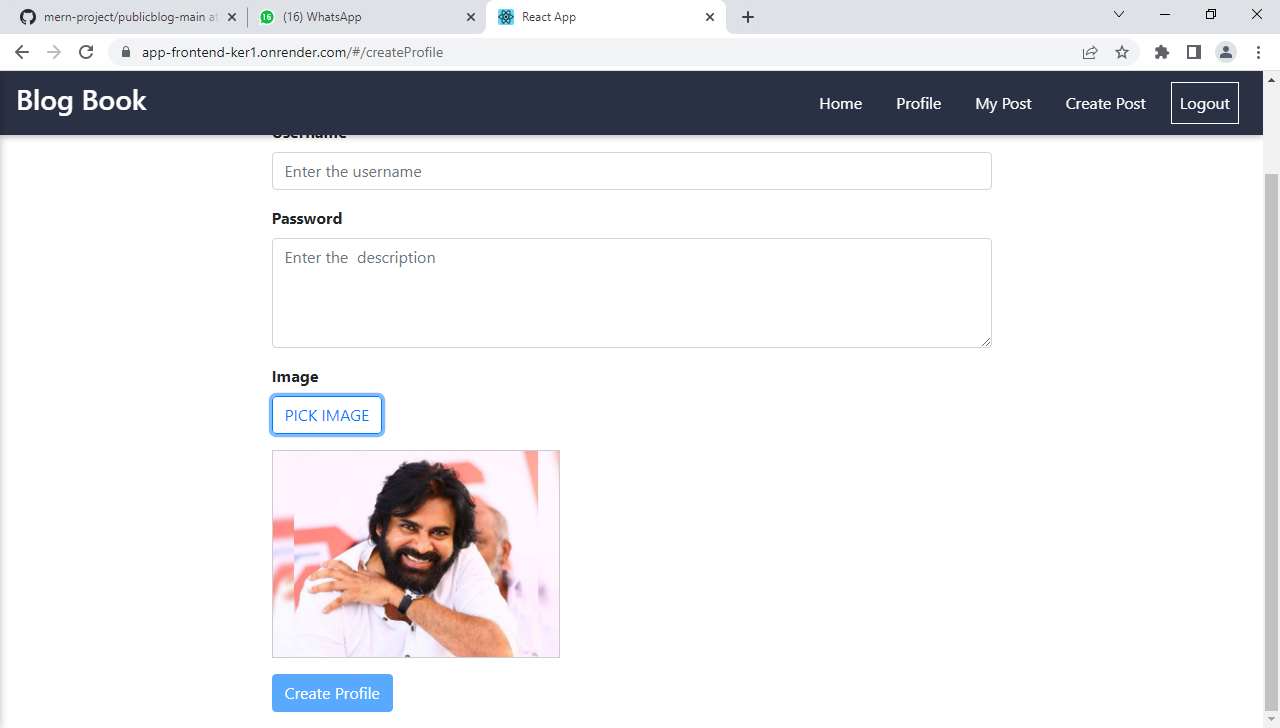


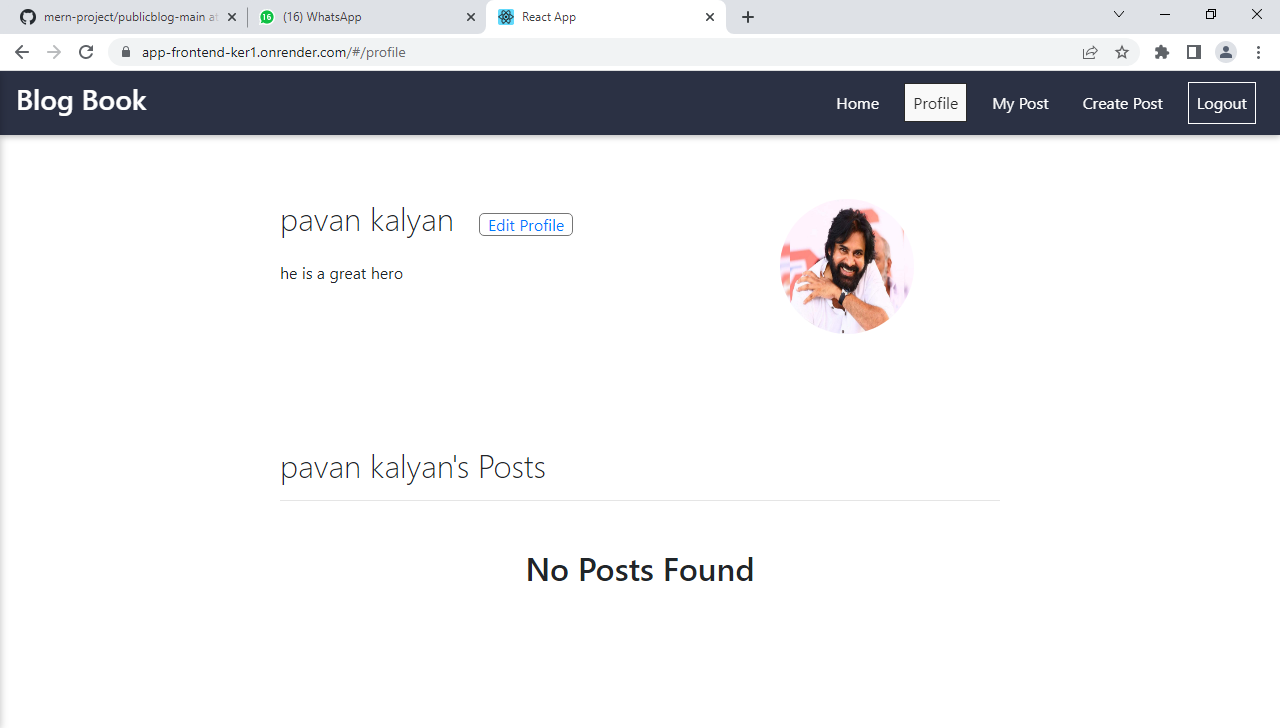


**OUTPUT SCREESNHOTS**



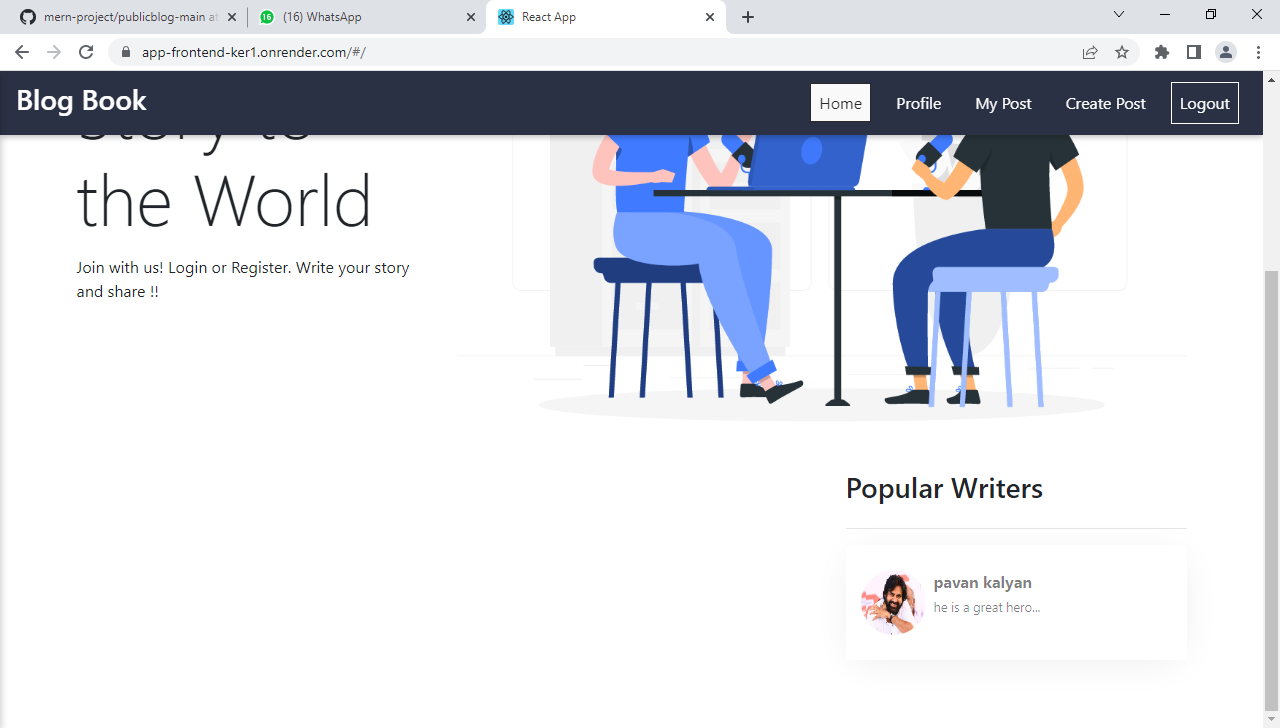


**POSTED:**



**Creating Post:**

**POSTED SUCCESSFULLY:**



**Conclusion**

With the MERN stack you can ideally build any web application you want by learning just one language, Javascript. With increased popularity of NoSQL databases, MongoDB is a go to database because of its scalability and flexible document schemas.

Though, the MERN stack is ideally suited for more JSON heavy, cloud native and dynamic web applications. One can build simple applications like the todo list, task manager to more complex ones like e-commerce sites and social media sites. MERN stack has growing popularity and many advantages with backing from a community of developers. If one aspires to be a full stack developer, he/she should definitely try out the MERN stack!

Finally, we are done for this MERN Stack Tutorial using React and Bootstrap 4. I have tried to highlight every essential topic in this tutorial. However, if you have skipped anything you can check out my [Github Repo](https://github.com/mehulk05/Blogapp-using-MERN" \t "_blank).

The purpose of this study was to carry out a blog project using JavaScript, NodeJS and MongoDB, which worked as expected. Using Node.js to develop applications was made simple by using npm. Npm, being a rich repository of libraries and packages in JavaScript, helped with extra packages which were needed to develop certain functionalities in the project. MongoDB was effortless to maintain as the model can be written in JavaScript. Accessing the MongoDB database was effortless because of easy-to-understand documentation available on its official website. Using Node.js for server-side programming has provided JavaScript developers with comfort. The communities built around Node.js have many

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