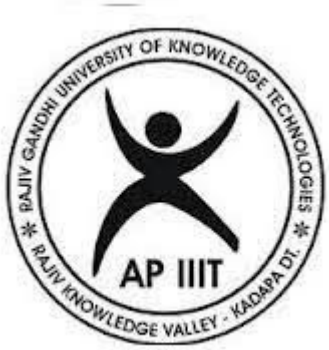
ONLINE BLOGGING SYSTEM

BACHELOR OF TECHNOLOGY
in
COMPUTER SCIENCE AND ENGINEERING



Rajiv Gandhi University of Knowledge Technologies
R.K.VALLEY

Submitted by:-

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Under the Esteemed guidance of

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RGUKT RK Valley.

DECLARATION

We here by declare that the report of the B.Tech Minor Project Work entitled as **“ONLINE BLOGGING SYSTEM”** which is being submitted to Rajiv Gandhi University of Knowledge Technologies, RK Valley, in partial fulfillment of the requirements for the award of Degree of Bachelor of Technology in Computer Science and Engineering, is a bonafide report of the work carried out by us. The material contained in this report has not been submitted to any university or institution for award of any degree.

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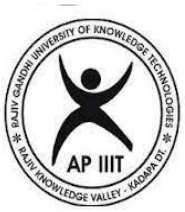
RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES



(A.P.Government Act 18 of 2008)
IIIT RK VALLEY, RGUKT-AP
Department of Computer Science and Engineering

CERTIFICATE FOR PROJECT COMPLETION

This is certify that the project entitled "ONLINE BLOGGING SYSTEM " submitted by P.Baby(R170968) R. Sai Nandini (R171135) , under our guidance and supervision for the partial fulfillment for the degree Bachelor of Technology in Computer Science and Engineering during the academic semester-II 2022-2023 at IIIT ,RK VALLEY RGUKT-AP. To the best of my knowledge, the result embodied in this dissertation work have not been submitted to any University or Institute for the award of any degree or diploma.

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ACKNOWLEDGEMENT

We would to express our sincere gratitude to madam Mr. Muni Babu our project Supervisor for valuable and keen interest throughout the progress of our project. We are grateful to Sir P.Harinadha, Head of the Department CSE for providing congenial atmosphere for progressing with our project. We extend our sincere gratitude to the department of Computer Science and Engineering. My sincere thanks to all who have supported me to gain knowledge about actual working involved in various technologies.

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Abstract

The main aim of this application is to provide a hassle-free accessing of the posted blogs, entries, topics etc. It also used for posting the blogs, editing the blogs, deleting the posted blogs etc. It is also used for viewing and posting the others blogs/posts.

Every organization, whether big or small, has challenges to overcome and managing the information of Idea, Blogs, Entries, Content, Views. Every Online Blogging System has different blogs to manage the details of blogs, ideas, topic, entries, views etc.

Purpose and Scope:

The main purpose of the Project on Online Blogging System is to manage the details of Blogs, Idea, Topic, Entries, Views. It manages all the information about Blogs, Content, Views, Blogs. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the Blogs, Idea, Content, Topic. It tracks all the details about the Topics, Entries, Views.

Functionalities Of Online Blogging System :

- Provides the post viewing facility for everyone.
- Editing, adding, posting and updating of Records.
- Online Blogging System also manage the Content details online for Entries details, views details and blogs.
- It tracks all the information of Idea, Content, Entries etc.
- Manage the information of Idea.
- To increase efficiency of managing the Blogs, Topics.
- Manage the information of the Blogs.
- Editing, adding, posting and updating of Records.

Technologies used to create the MERN Stack app

HTML:

The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser.

CSS:

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.

JAVASCRIPT:

JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first class functions

MongoDB :

It’s an open-source NoSQL cross-platform document-oriented database

Express JS :

It’s a web-based application framework work with Node JS, It helps to build web apps and RESTful APIs.

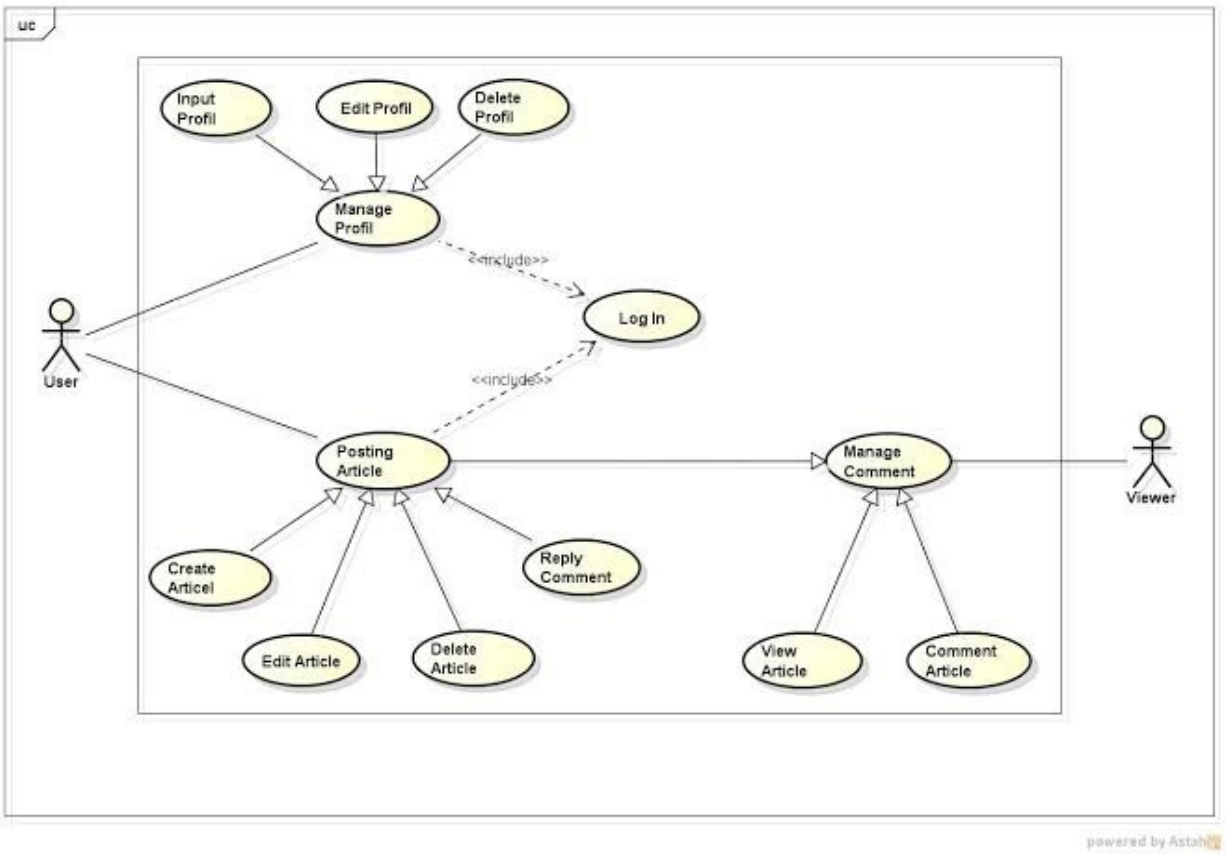
ReactJS :

React is a JavaScript library created by Facebook. React is a User Interface (UI) library. React is a tool for building UI components.

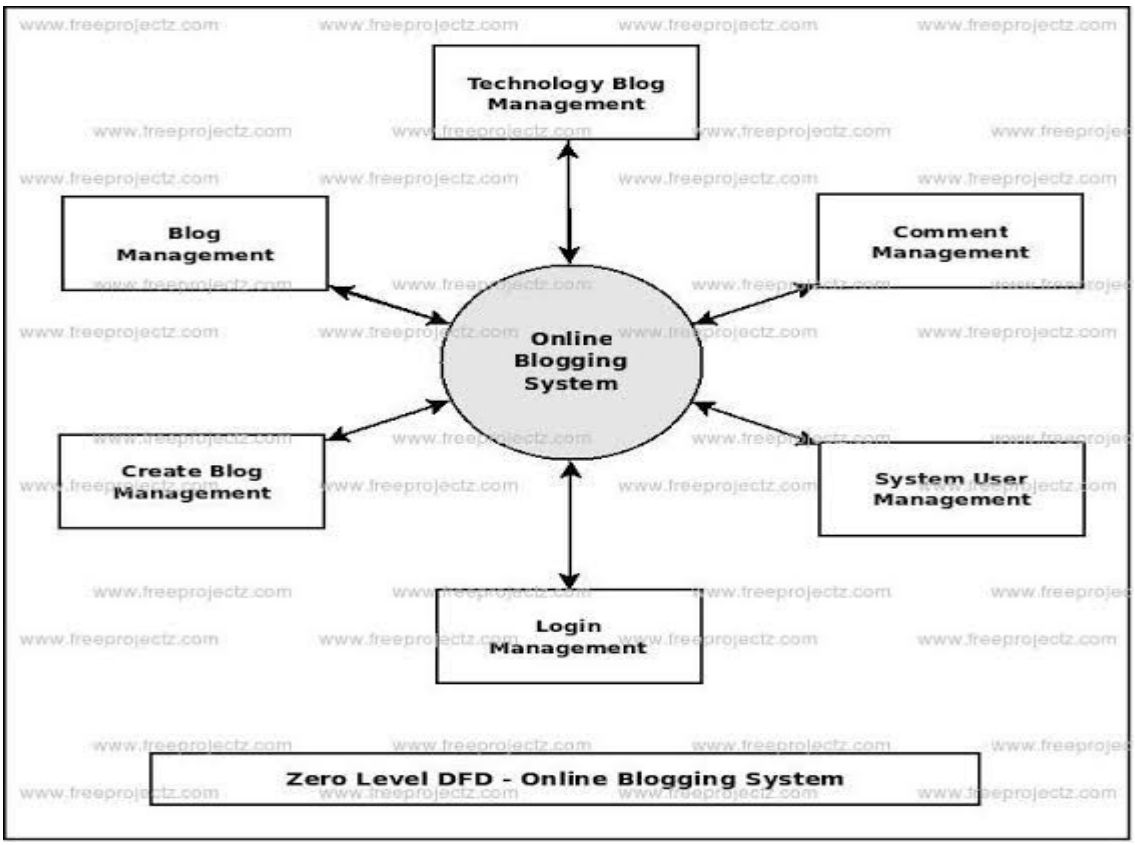
Node JS :

It is a free JavaScript run-time environment, It executes JavaScript code outside of a browser. It is available for macOS, Windows, Linux, and Unix.

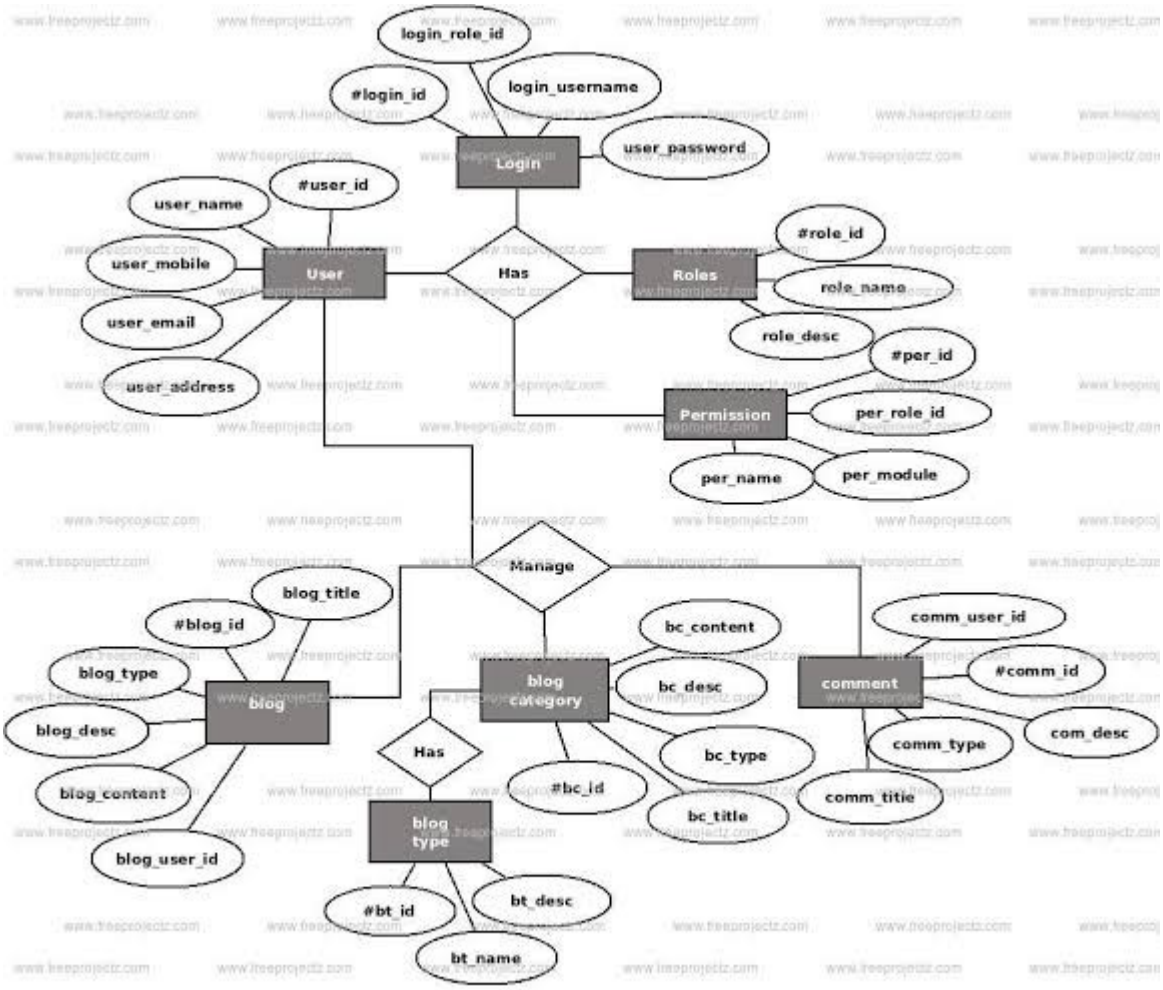
Usecase diagram:



Data Flow Diagram:

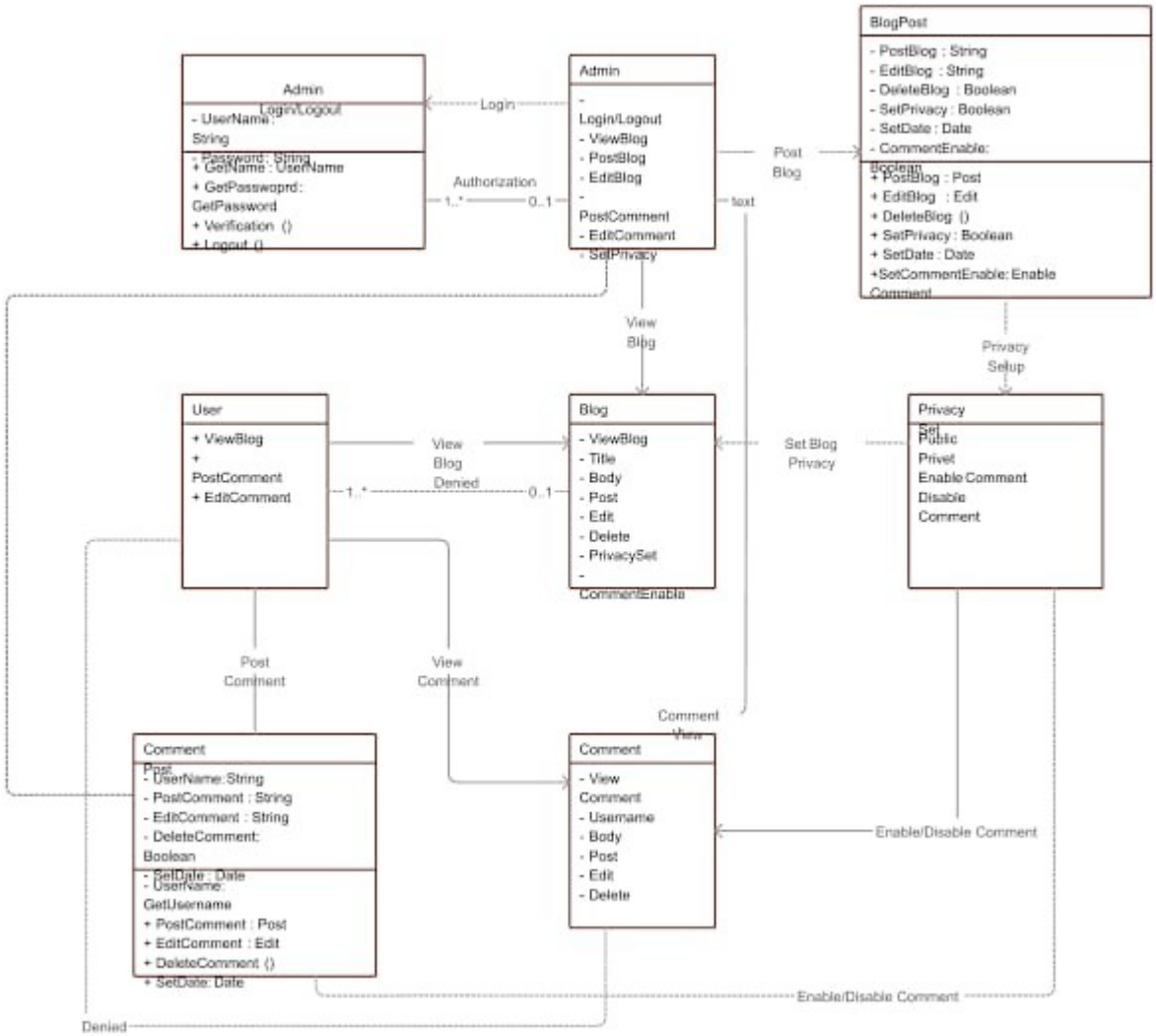


ER Diagram:



ER Diagram For Blogging System

Class Diagram:



Coding and Implementation:
Front end:
Package.json

```
{
"name": "frontend",
"version": "0.1.0",
"private": true,
"dependencies": {
"@emotion/react": "^11.8.2",
"@emotion/styled": "^11.8.1",
"@mui/icons-material": "^5.5.1",
"@mui/material": "^5.5.3",
"@mui/styles": "^5.6.0",
"@reduxjs/toolkit": "^1.8.1",
"@testing-library/jest-dom": "^5.16.3",
"@testing-library/react": "^12.1.4",
"@testing-library/user-event": "^13.5.0",
"axios": "^0.26.1",
"react": "^18.0.0",
"react-dom": "^18.0.0",
"react-redux": "^7.2.8",
"react-router-dom": "^6.3.0",
"react-scripts": "5.0.0",
"web-vitals": "^2.1.4"
},
"scripts": {
"start": "react-scripts start",
"build": "react-scripts build",
"test": "react-scripts test",
"eject": "react-scripts eject"
},
"eslintConfig": {
"extends": [
"react-app",
"react-app/jest"
]
},
```

```
"browserslist": {
"production": [
">0.2%",
"not dead",
"not op_mini all"
],
"development": [
"last 1 chrome version",
"last 1 firefox version",
"last 1 safari version"
]
}
}
```

Backend:
Package.json

```
{
"name": "backend",
"version": "1.0.0",
"description": "Blog Application",
"main": "app.js",
"type": "module",
"scripts": {
"start": "nodemon --experimental-modules --es-module-specifier-
resolution=node app.js",
"test": "echo \"Error: no test specified\" && exit 1"
},
"author": "",
"license": "ISC",
"dependencies": {
"bcryptjs": "^2.4.3",
"cors": "^2.8.5",
"express": "^4.17.3",
"mongoose": "^6.2.8",
"nodemon": "^2.0.15"
}
}
```

blog-routes.js

```
import express from "express";
import {
addBlog,
deleteBlog,
getAllBlogs,
getById,
getByUserId,
updateBlog,
} from "../controllers/blog-controller";
const blogRouter = express.Router();

blogRouter.get("/", getAllBlogs);
blogRouter.post("/add", addBlog);
blogRouter.put("/update/:id", updateBlog);
blogRouter.get("/:id", getById);
blogRouter.delete("/:id", deleteBlog);
blogRouter.get("/user/:id", getByUserId);

export default blogRouter;
```

user-routes.js

```
import express from "express";
import { getAllUser, login, signup } from "../controllers/user-
controller";

const router = express.Router();

router.get("/", getAllUser);
router.post("/signup", signup);
router.post("/login", login);
export default router;
```

app.js

```
import express from "express";
import mongoose from "mongoose";
import blogRouter from "./routes/blog-routes";
import router from "./routes/user-routes";
import cors from "cors";
const app = express();
app.use(cors());
app.use(express.json());
app.use("/api/user", router);
app.use("/api/blog", blogRouter);
mongoose.connect(
 "mongodb+srv://nandininanduu96:nandu123@hodophile.xycgyce.mon-
godb.net/?retryWrites=true&w=majority"
 )
 .then(() => app.listen(5000))
 .then(() =>
 console.log("Connected TO Database and Listening TO Localhost
5000")
 )
 .catch((err) => console.log(err));
```

Models:
Blog.js

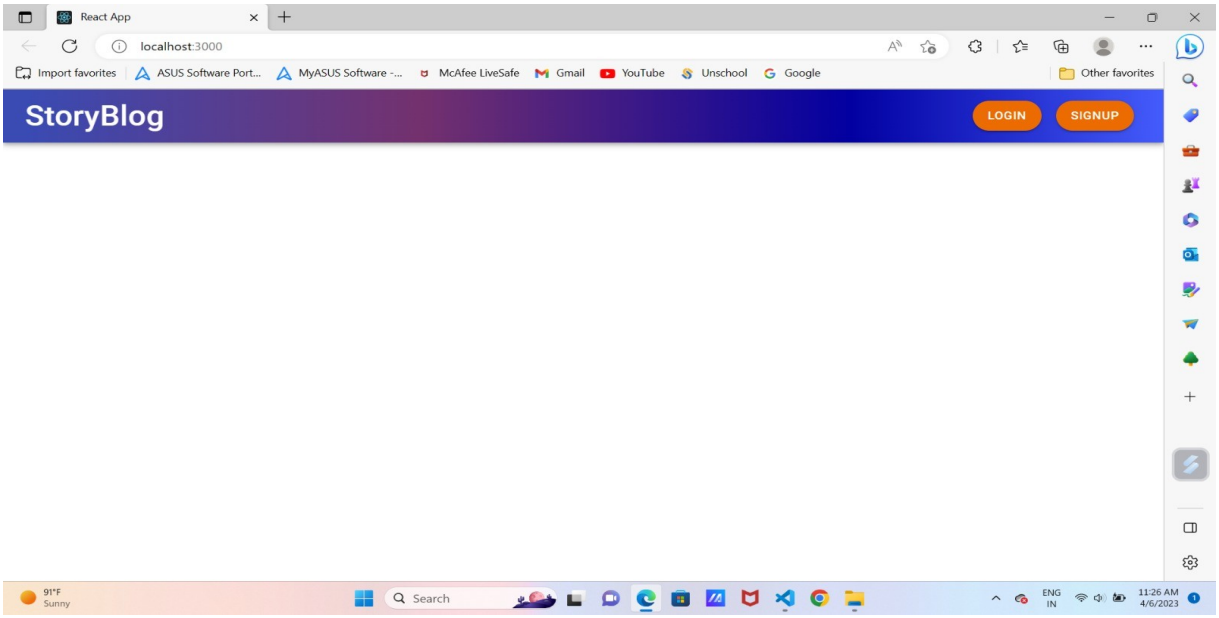
```
import mongoose from "mongoose";

const Schema = mongoose.Schema;

const blogSchema = new Schema({
 title: {
 type: String,
 required: true,
 },
 description: {
 type: String,
 required: true,
 },
 image: {
 type: String,
 required: true,
 },
 user: {
 type: mongoose.Types.ObjectId,
 ref: "User",
 required: true,
 },
});

export default mongoose.model("Blog", blogSchema);
```

user.js:

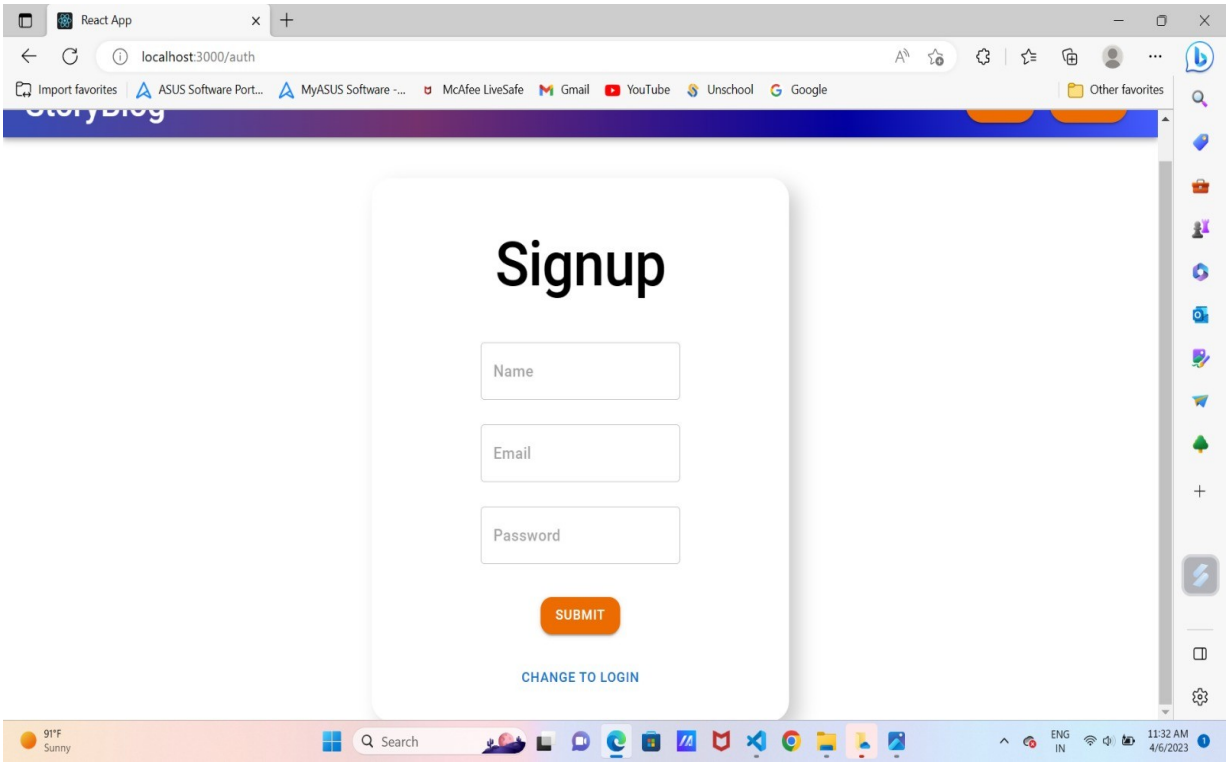
```
import mongoose from "mongoose";

const Schema = mongoose.Schema;

const userSchema = new Schema({
 name: {
 type: String,
 required: true,
 },
 email: {
 type: String,
 required: true,
 unique: true,
 },
 password: {
 type: String,
 required: true,
 minlength: 6,
 },
 blogs: [{ type: mongoose.Types.ObjectId, ref: "Blog", re-
quired: true }],
});
export default mongoose.model("User", userSchema);
```

Output:

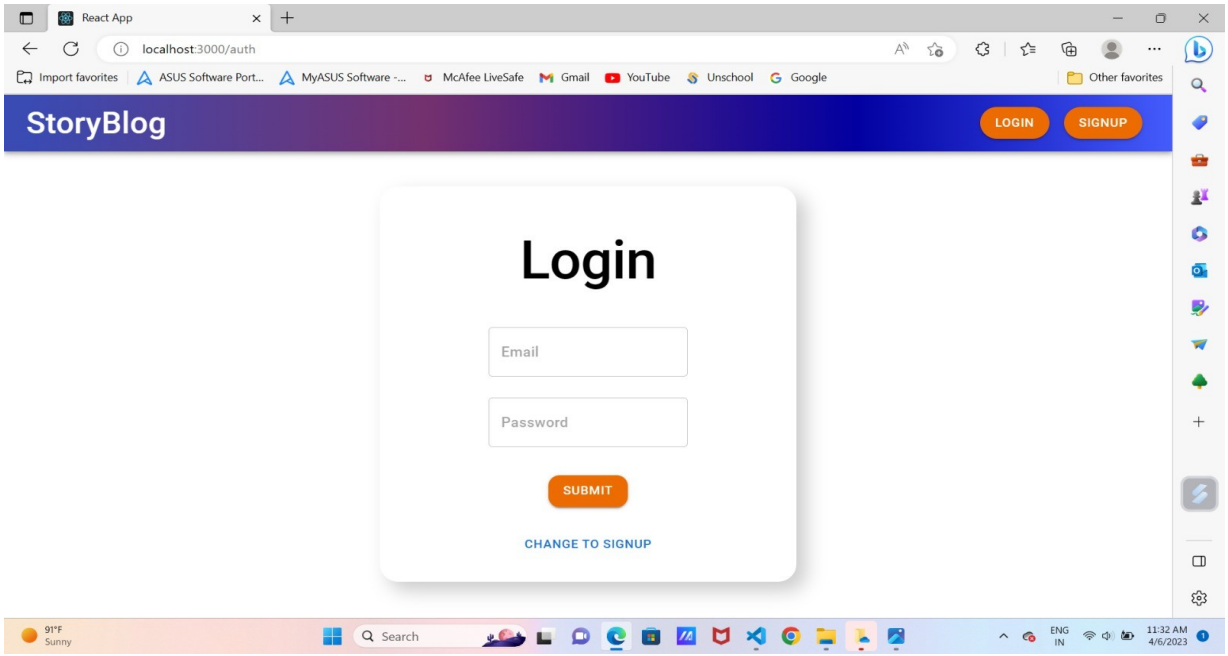
Home:



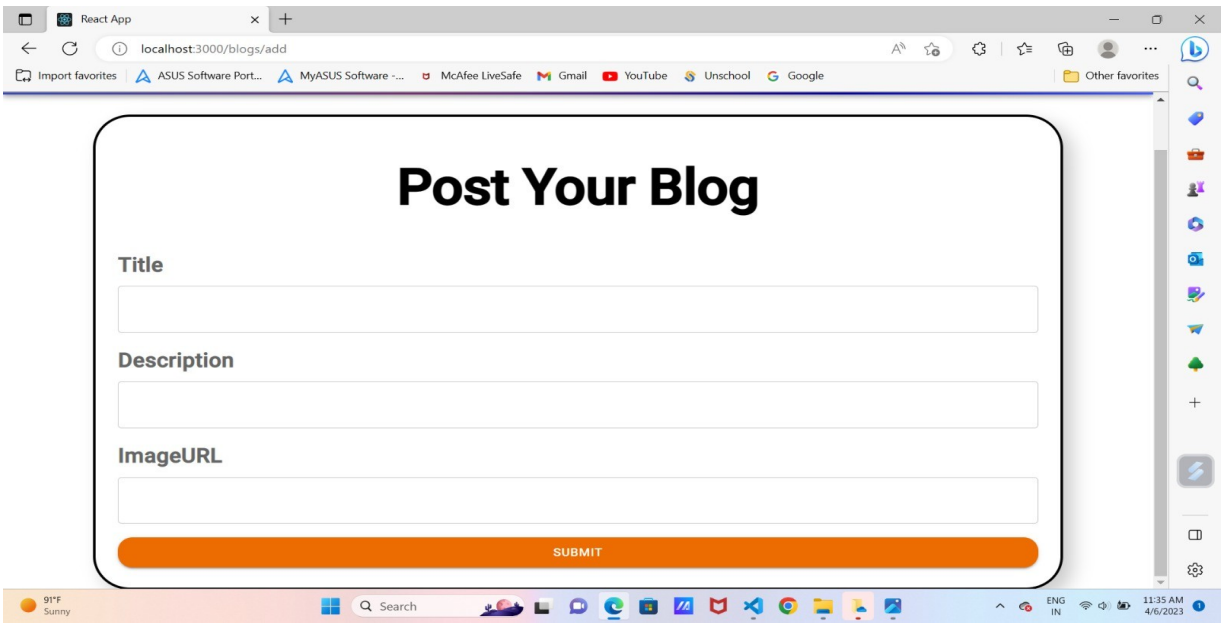
Sign Up:



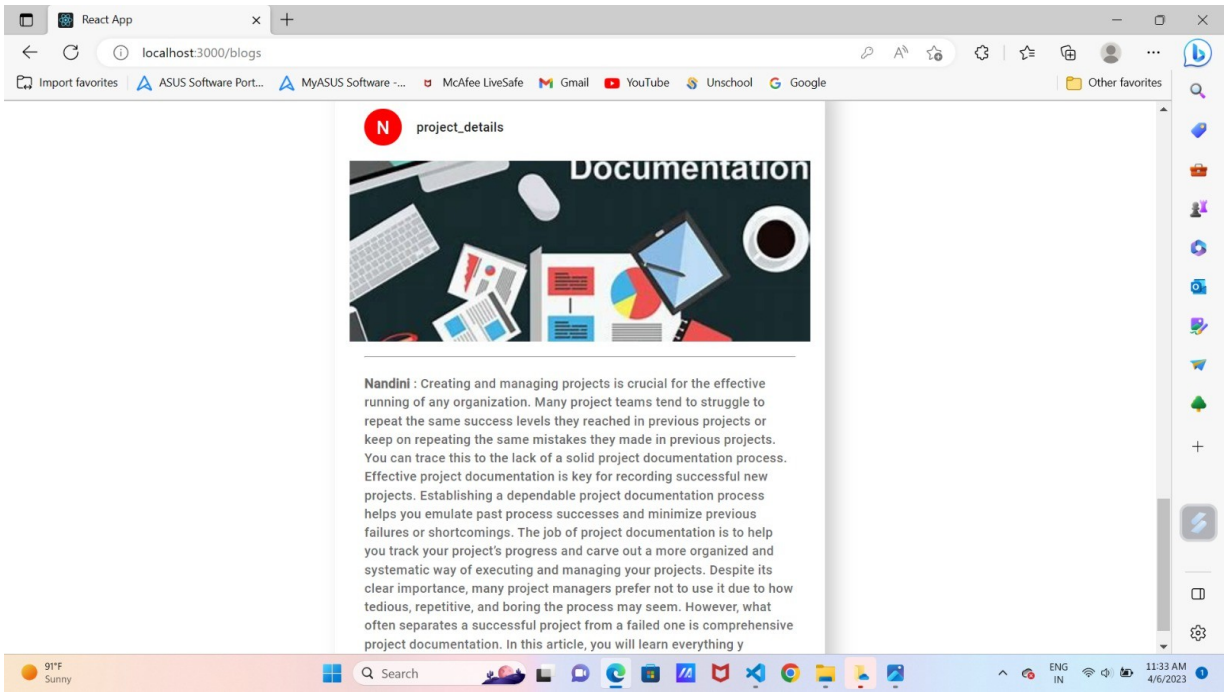
Log In:



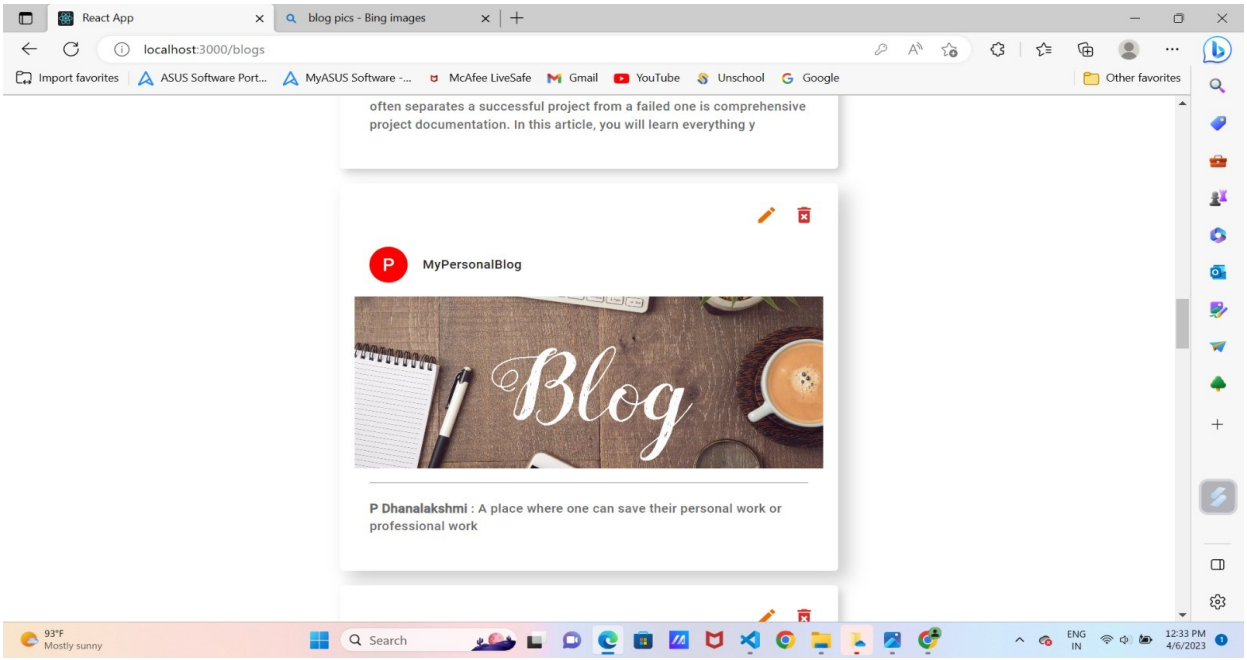
Add Blog:



Blogs:



Edit & Delete Blog:



Future Scope of the Project:

The scope of blogging is bright as more and more users getting access to the internet and computers. In all type of offices the computer is a necessary part so visitors browse the internet to have a solution of that problem. Now a days many big media companies are entering the blog space to increase their sales in the market. Most companies like to publish their content in high authority blogs where customers visit them for knowing mor edetails under a niche or topic. The future of blogs and blogging is safe and people always like to read the content when they want to know the details of the product or service.

Conclusion:

A blog is a great way for a person to learn how to create their own blog. Blogger enjoys the fame of being one of the most popular blogging platforms especially for the organization. This advanced blogging has made the site popular because it is free and offers anyone the ability to manage their own blog without the burden of technicalities in hosting the same.

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