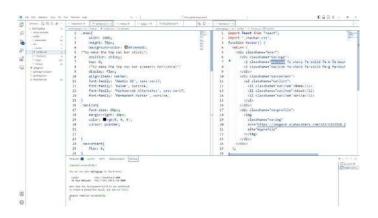
Advanced Database Topics Prepared By

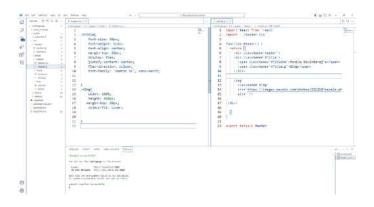
Monika Govindaraj (110122262)

Project Hierarchy

Client	Server
1.nav bar	1.Index.js
a.navbar.js	2.env file
2.pages	3.Models
a.Login.js	a.Category.js
b.Register.js	b.Comments.js
c.Home.js	c.Post.js
d.Header.js	d.User.js
e.newPost.js	4.routes/Ser
f.Post.js	a.category.js
g.DetailPage.js	b.comments.js
h.RowPostContainer.js	c.post.js
i.Comments.js	d.user.js
3.App.js	
4.Index.js	

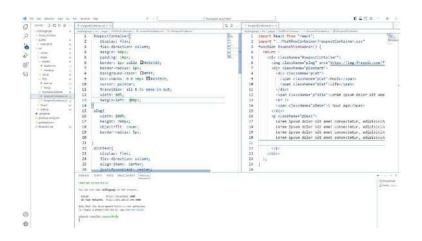
1. Create Blogging platform Frontend Page

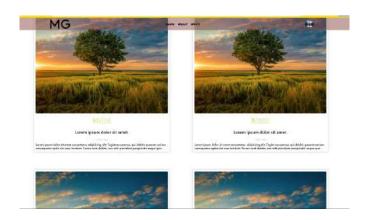


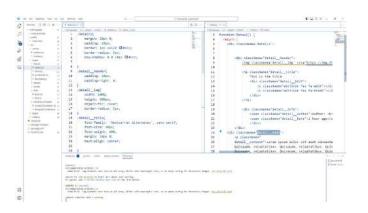






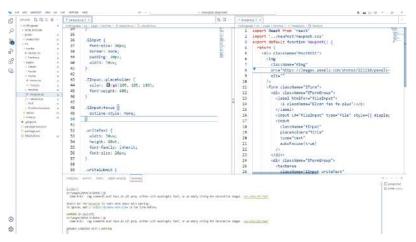


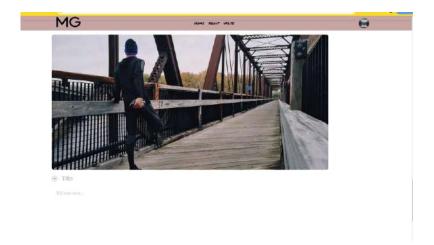




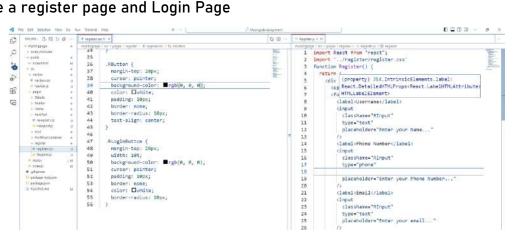


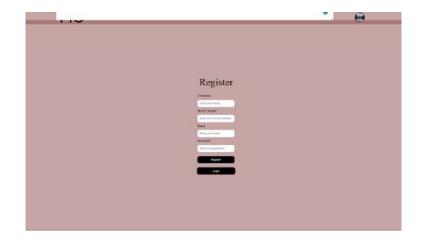
Create a new post page

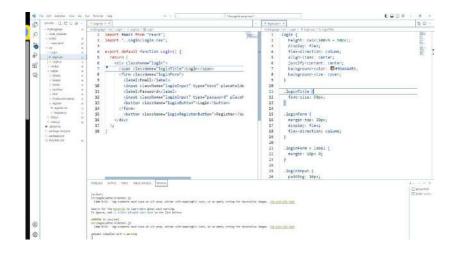




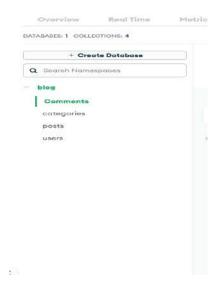
Create a register page and Login Page







2. Next Step is to create a MongoDB schema



User Schema:

Categories schema:

```
_id: Objectid | Goz30Feg/445/Scobc12F52 |
username: "noni"
title: "Coding For every one"
crostelat: "1033-10-13168:40:30.65#66:60"
t ag: Array
e: "coding"
1: "Technology"
```

Comments schema:

```
_id: ObjectId('E537c09e7445751c0bc12f53')
username: "montka"
comment: "Mice Post"
postID: ""
createdAt: "2023-10-23117:50:42.574+00:80"
__V: "0"
updatedAt: "2023-10-23117:50:42.574+00:80"
```

Blogposts schema:

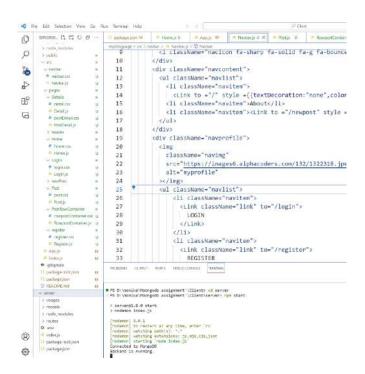
```
_id: ObjectId('6536b73ff548721787d6a522')
title: "test"
desc: "testt"
username: "monika"

categories: Array
createdAt: 2023-10-23T18:11:11.878+00:00
updatedAt: 2023-10-23T18:11:11.878+00:00
__v: 0

_id: ObjectId('6536e1d0770e8b6451e8a6db')
title: "My new Ideas"
desc: "my life has various ideas"
username: "monigov"

categories: Array
createdAt: 2023-10-23T21:12:48.250+00:00
__v: 0
```

3. Project Structure



Index.js

```
| The content | Content |
```

Models

1. User.js

2.Post.js

```
const mongoose = require("mangeose");

const PostSchema = new mongoose.Schema(

title: {
    title: {
        type: String,
        required: true,
        lunique: true,
    }

    poto: {
        type: String,
        required: true,
    }

    caramer: {
        type: String,
        required: true,
     }

    categories: {
        type: Array,
        required: false,
    }

        type: Array,
        required: false,
    }

    timestamps: true }

module.exports = mongoose.nodel("Post", PostSchema);
```

3.Categories.js

4.Comments.js

```
Schegoryja A. Commentaja X. 4. Rostja 6. Userja 4. authja 8. cutegoriesja 4. postuja 4. usersja 8. čedenja
       nodels > in Comments is > let Comments Scheme > & comment const mongoose = require("mongoose");
       const CommentsSchema = new mongoose.Schema(
            username: {
  type: String,
               required: true,
               unique: true,
            title: {
  type: String,
  required: true,
  10
  11
  13
            type: String, required: true,
  15
  16
  17
             postid: {
  18
               type: String,
  29
               required: true,
  21
  22
23
         },
{ timestamps: true }
        module.exports = mongoose.model("Comments", CommentsSchema);
```

Controller

1.Auth.js

```
const router = require("express").Router();
const User = require("../rodels/User");
a canst berypt = require("berypt");

for outer.post("/register", asymc (req, res) => {
    try {
        const salt = await berypt.gensalt(10);
        const salt = await berypt.gensalt(10);
        const newluser = new User(!
        username: req.body.username,
        enail: req.body.username,
        enail: req.body.username,
        enail: req.body.username,
        enail: req.body.username,
        enail: req.body.username,
        possword: hashedPass,
        });

const user = await newUser.save();
        res.status(200).json(user);
        res.status(200).json(user);
        res.status(500).json(err);
        res.status(500).json(err);
        user await User.findOne({ username: req.body.username });
        user & res.status(400).json("Wrong credentials!");
        const user = await berypt.compare(req.body.username });
        user & res.status(400).json("Wrong credentials!");
        const validated = await berypt.compare(req.body.password, user.password);
        ivalidated & res.status(400).json("Wrong credentials!");
        const ( password, ...others ) = user._doc;
        res.status(200).json(others);
        } catch (err) {
        res.status(500).json(err);
    }
}
```

3.user.js

```
const router = require("express").Router();
const Category = require("../models/Category");

router.post("/", async (req, res) => {
   const newCat = new Category(req.body);
   try {
      const savedCat = await newCat.save();
      res.status(200).json(savedCat);
   } catch (err) {
      res.status(500).json(err);
   });

router.get("/", async (req, res) => {
      try {
      const cats = await Category.find();
      res.status(200).json(cats);
   } catch (err) {
      res.status(500).json(err);
   }
   });

module.exports = router;
```

4.post.js

```
vor) *sudes > *spons;;)_
1 const router = require("express").Router();
2 const User = require("../models/User");
3 const Post = require("../models/Post");
      router.post("/", async (req, res) => {
  const newPost = new Post(req.body);
         try {
  const savedPost = await newPost.save();
  res.status(200), json(savedPost);
       } catch (err) {
  res.status(500).json(err);
}
11
13
14
15
      3);
      //UPDATE POST
16
17
       router.put("/:id", async (req, res) => {
          try {
  const post = await Post.findById(req.params.id);
  if (post.username === req.body.username) {
19
21
                   const updatedPost = await Post.findByIdAndUpdate(
  req.params.id,
24
25
26
                          $set: req.body,
                      },
{ new: true }
27
28
                    res.status(200).json(updatedPost);
29
 30
31
                } catch (err) {
  res.status(500).json(err);
 32
                res.status(401).json("You can update only your post!");
34
          } catch (err) {
```

5.Category.js

```
const router = require("express").Router();
const Category = require("../models/Category");

router.post("/", async (req, res) => {
    const newCat = new Category(req.body);
    try {
        const savedCat = await newCat.save();
        res.status(200).json(savedCat);
    } catch (err) {
        res.status(500).json(err);
    };
};

router.get("/", async (req, res) => {
        try {
            const cats = await Category.find();
            res.status(200).json(cats);
    } catch (err) {
            res.status(500).json(err);
    };
} catch (err) {
            res.status(500).json(err);
    }
} catch (err) {
            res.status(500).json(err);
    }
} catch (err) {
            res.status(500).json(err);
    }
}

module.exports = router;
```

5.Comments.js

```
const router = require("express").Router();
const Comments = require("../models/Comments");

router.post("/", async (req, res) => {
   const newCom = new Comments(req.body);
   try {
      const savedCom = await newCom.save();
      res.status(200).json(savedCom);
   } catch (err) {
      res.status(500).json(err);
   }
} });

router.get("/", async (req, res) => {
      try {
      const Coms = await Comegory.find();
      res.status(200).json(Coms);
   } catch (err) {
      res.status(500).json(err);
   }
} catch (err) {
      res.status(500).json(err);
   }
} catch (err) {
      res.status(500).json(err);
   }
} module.exports = router;
```

Mongo database connected

```
Lumas pass 2 realize(pinn );

cont und = "rongest-serv//monitial scottkal/segBiog solding songods.set/blogbratyset/servised-majority";

dotewo.cortig():

app.use()/mager, appreti.tratic(path.joinn_direase, "/mages")));

app.use()/mager, appreti.tratic(path.joinn_direase, "/mages")));

sengoss

.comment und, (osebub-laboreri true, usebsificatingology; and usebsificatingology; true, usebsificatingology; and usebsificatingology; true, usebsificatingology; and usebsification usebsification
```

4. Populate data to mongo db.

```
Username: 'nonl',
emoil: 'ronlegrall.com',
password: bcrypt.hashSync('passi', 18),
),
[
      username: 'monil',
cmail: 'monil@gmail.com',
password: bcrypt.hashSync('pass2', 10),
       (
username: 'mon12',
email: 'mon12@gmail.com',
password: bcrypt.hashSync('pass3', 10),
     );
];
const PostData - [
    Cons 'Total 'Total 'Total 'Coding 'Total 'To
      title: 'test',
desc: 'test',
username: 'monika',
categories: ['music',Life],
     1;
const commentsData = [
  const conventsData = [

communiterName: 'monita',
commentText: %ice Post',
blogFost: '6537c80e7445751c8bc12f53',

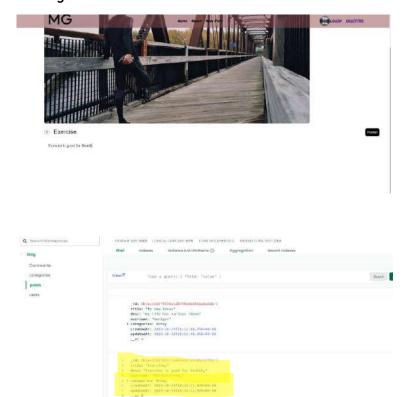
],
[
 const commentsData = [
   commenterName: 'monika',
commentText: 'Nice Post',
    blogPost: '6537c09e7445751c0bc12f53',
    commenterName: 'moni2',
    commentText: 'Post!',
   blogPost: '6536e1d0770e8b6451e8a6db',
async function populateDatabase() {
   await User.deleteMany({});
await BlogPost.deleteMany({});
    await Comment.deleteMany({});
    const createdUsers = await User.insertMany(usersData);
    const createdBlogPosts = await BlogPost.insertMany(blogPostsData);
     const blogPostTitleToId = createdBlogPosts.reduce((acc, post) => {
     acc[post.title] = post._id;
     return acc;
    }, {});
    const commentsWithIds = commentsData.map((comment) => ({
    ...comment, blogPostTitleToId[comment.blogPostTitle],
```

Next step is to fetch the data from the database to the website

BLOG Post data is fetched from the database

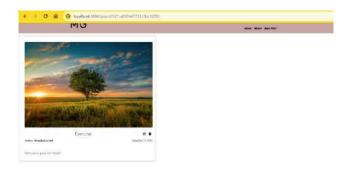


Add New Post to MongoDB





Edit Post







Add Comments to Post

