Lab Report SE

CS-165L



Submitted To:

Sir Laeeq

Submitted By:

Usman Asgher

2021-CS-46

Lab Assignment

University of Engineering and Technology

Lahore

1. Complete Code

1.1 Server

```
const express = require("express");
const cors = require("cors");
const bodyparser = require("body-parser");
const port = 8080;
require("./utils/db");
const userroute = require("./routes/UserRoutes");
const app = express();
app.use(bodyparser.json());
app.use("/api", userroute);
app.use(cors());
app.listen(port, () => {
   console.log(`Port is host at local host ${port}`);
});
```

2. Models

2.1 UserModel

```
type: String,
    unique: true,
},
Password: {
    type: String,
    unique: true,
},
Role: String,
DateOfBirth: Date,
},
{ timestamps: true }
);
module.exports = mongoose.model("Users", UserSchema);
```

3. Controllers

3.1 UserController

```
const usermodel = require("../models/UserModels");
async function AddUser(req, res) {
  try {
    const Users = await usermodel.create(req.body);
    res.status(200).json({ Users });
} catch (error) {
    console.error(error);
    res.status(500).json({ error: error.message });
}
async function getAllUsers(req, res) {
    try {
     const Users = await usermodel.find();
}
```

```
res.status(200).json({ Users });
 } catch (error) {
   console.error(error);
   res.status(500).json({ error: error.message });
async function updateUsers(req, res) {
   const userId = req.params.id;
    const updateUser = await usermodel.findByIdAndUpdate(userId,
req.body, {
     new: true,
   });
   if (!updateUser) {
     return res.status(404).json({ error: "User Not Found" });
   } else {
     res.status(200).json({ updateUser });
 } catch (error) {
   console.error(error);
   res.status(500).json({ error: error.message });
async function deleteUsers(req, res) {
 try {
   const userId = req.params.id;
                                    deleteUsers =
                        const
                                                            await
usermodel.findByIdAndDelete(userId);
   if (!deleteUsers) {
     return res.status(404).json({ error: "User Not Deleted" });
```

```
} else {
    res.status(204).end();
}

catch (error) {
    console.error(error);
    res.status(500).json({ error: error.message });
}

module.exports = {
    AddUser,
    getAllUsers,
    updateUsers,
    deleteUsers,
};
```

3.2 Login Controller

```
const usermodel = require("../models/UserModels");

async function LoginUser(req, res) {
    try {
        const { Username, Password } = req.body;
        const loginuser = await usermodel.findOne({ Username,Password});

    res.status(200).json({ loginuser });
} catch (error) {
    console.error(error);
    res.status(500).json({ error: error.message });
}

module.exports = {
    LoginUser,
};
```

4. Routes

4.1 UserRoutes

```
const express = require("express");

const route = express.Router();
const usercontroller = require("../controller/UserController");
const logincontroller = require("../controller/LoginController");

route.post("/users", usercontroller.AddUser);
route.get("/users", usercontroller.getAllUsers);
route.put("/users/:id", usercontroller.updateUsers);
route.delete("/users/:id", usercontroller.deleteUsers);
route.post("/login", logincontroller.LoginUser);

module.exports = route;
```

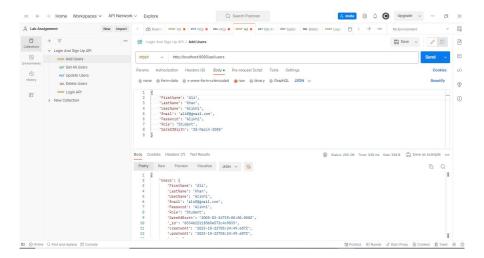
5. Utils

5.1 db

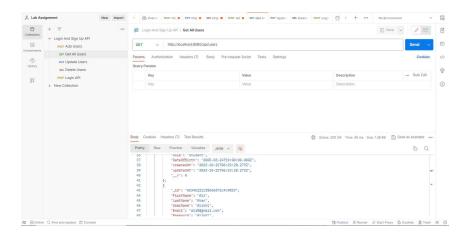
```
const mongoose = require("mongoose");
mongoose.set("strictQuery", true);
mongoose.connect("mongodb://127.0.0.1:27017/User-APIS", {
    useNewUrlParser: true,
    useUnifiedTopology: true,
});
const db = mongoose.connection;
db.on("error", () => {
    console.log("Failed to Connect MongoDb");
});
db.once("open", () => {
    console.log("Connected To MongoDB");
});
```

6. Testing

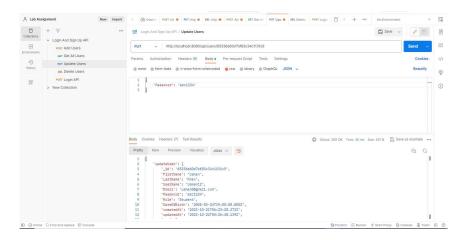
6.1 Post API



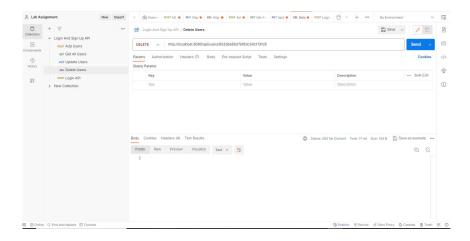
6.2 Get API



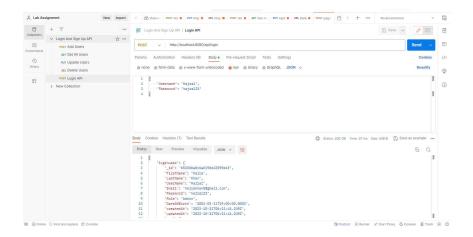
6.3 Put API



6.4 Delete API



6.5 Login API



7. File Structure

```
## Description | The Processor | The Processor
```