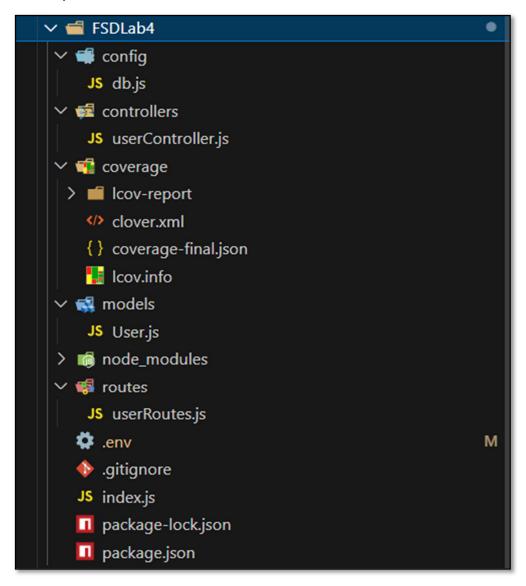
Process:-

Directory Structure:-



Code:

Index.js

```
require("dotenv").config();
     const express = require("express");
     const cors = require("cors");
    const connectDB = require("./config/db");
     const userRoutes = require("./routes/userRoutes");
     const app = express();
     app.use(cors());
     app.use(express.json());
     if (process.env.NODE_ENV !== "test") {
     connectDB();
     app.use("/users", userRoutes);
20
     if (process.env.NODE_ENV !== "test") {
     const PORT = process.env.PORT || 5000;
       app.listen(PORT, () =>
         console.log(` \( \textit{?} \) Server running at http://localhost:$\( \text{PORT} \) )
     module.exports = app; // 

export app for supertest
```

routes/userRoutes.js

```
const express = require("express");
const {
    createUser,
    getUserSyId,
    updateUser,
    deleteUser,
} = require("../controllers/userController");

const router = express.Router();

router.post("/", createUser);
router.get("/", getUserSyId);
router.get("/:id", getUserById);
router.put("/:id", updateUser);

module.exports = router;
```

Models/User.js

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

const userSchema = new mongoose.Schema(

name: { type: String, required: true },
email: { type: String, required: true, unique: true },
age: { type: Number, required: true },
},
{ timestamps: true }

module.exports = mongoose.model("User", userSchema);
```

Config/db.js

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

const connectDB = async () => {
    console.log(process.env.MONGO_URI);
    try {
        await mongoose.connect(process.env.MONGO_URI);
        console.log(" MongoDB Connected");
    } catch (error) {
        console.error(" MongoDB Connection Failed:", error.message);
        process.exit(1);
    }
};

module.exports = connectDB;
```

Controllers/userController.js

```
const User = require("../models/User");
exports.createUser = async (req, res) => {
   const user = await User.create(req.body);
   res.status(201).json({ success: true, data: user });
  } catch (err) {
    res.status(400).json({ success: false, message: err.message });
exports.getUsers = async (req, res) => {
   const users = await User.find();
   res.json({ success: true, data: users });
 } catch (err) {
   res.status(500).json({ success: false, message: err.message });
exports.getUserById = async (req, res) => {
    const user = await User.findById(req.params.id);
   if (!user) return res.status(404).json({ success: false, message: "User not found" });
    res.json({ success: true, data: user });
  } catch (err) {
   res.status(500).json({ success: false, message: err.message });
exports.updateUser = async (req, res) => {
   const user = await User.findByIdAndUpdate(req.params.id, req.body, {
    new: true,
     runValidators: true,
   if (!user) return res.status(404).json({ success: false, message: "User not found" });
   res.json({ success: true, data: user });
  } catch (err) {
   res.status(400).json({ success: false, message: err.message });
exports.deleteUser = async (req, res) => {
    const user = await User.findByIdAndDelete(req.params.id);
    if (!user) return res.status(404).json({ success: false, message: "User not found" });
  res.json({ success: true, message: "User deleted successfully" });
  } catch (err) {
  res.status(500).json({ success: false, message: err.message });
```

Output:

Create User (POST)

Request:-

Response:-

Fetch User Data (GET user by ID)

Request:-



Response:-

Fetch All Users (Get)

Request:-



Response:-

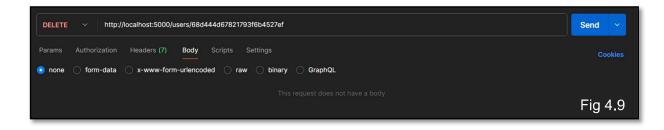
Update User (PUT)

Request:-

Response:-

Delete User (Delete)

Request:-



Response:-

```
Body Cookies Headers (8) Test Results ①

{} JSON \ Delta Preview \ Visualize \ Delta Visualize \ Delta Delta
```

Mongo Atlas Server :-

