```
package.json
{
"name": "user-auth",
"version": "1.0.0",
"main": "server.js",
"type": "module",
"scripts": {
 "start": "node server.js"
},
"dependencies": {
 "bcryptjs": "^2.4.3",
 "dotenv": "^16.0.3",
 "express": "^4.18.2",
 "jsonwebtoken": "^9.0.0",
 "mongoose": "^7.0.0"
}
Step 2: .env
PORT=5000
MONGO_URI=mongodb://localhost:27017/userAuthDB
JWT_SECRET=mysecretkey
* Step 3: config/db.js
```

```
import mongoose from "mongoose";
```

const connectDB = async () => {

```
try {
 await mongoose.connect(process.env.MONGO_URI);
 console.log("<a>✓</a> MongoDB Connected");
} catch (err) {
 console.error("X Database connection failed:", err.message);
 process.exit(1);
}
};
export default connectDB;
Step 4: models/User.js
import mongoose from "mongoose";
const userSchema = new mongoose.Schema({
 name: { type: String, required: true },
 email: { type: String, required: true, unique: true },
 password: { type: String, required: true }
});
export default mongoose.model("User", userSchema);
🔐 Step 5: routes/auth.js
import express from "express";
import bcrypt from "bcryptjs";
import jwt from "jsonwebtoken";
import User from "../models/User.js";
```

```
const router = express.Router();
// Figure // Register
router.post("/register", async (req, res) => {
try {
  const { name, email, password } = req.body;
  const existingUser = await User.findOne({ email });
  if (existingUser) return res.status(400).json({ msg: "User already exists" });
  const hashedPassword = await bcrypt.hash(password, 10);
  const newUser = new User({ name, email, password: hashedPassword });
  await newUser.save();
  res.status(201).json({ msg: "User registered successfully" });
 } catch (err) {
  res.status(500).json({ error: err.message });
}
});
// 🔒 Login
router.post("/login", async (req, res) => {
 try {
  const { email, password } = req.body;
  const user = await User.findOne({ email });
  if (!user) return res.status(400).json({ msg: "User not found" });
```

```
const isMatch = await bcrypt.compare(password, user.password);
  if (!isMatch) return res.status(400).json({ msg: "Invalid credentials" });
  const token = jwt.sign({ id: user._id }, process.env.JWT_SECRET, { expiresIn: "1h" });
  res.json({ token });
 } catch (err) {
 res.status(500).json({ error: err.message });
}
});
export default router;
🚞 Step 6: middleware/authMiddleware.js
import jwt from "jsonwebtoken";
const auth = (req, res, next) => {
 const token = req.header("Authorization");
 if (!token) return res.status(401).json({ msg: "No token, authorization denied" });
 try {
 const decoded = jwt.verify(token.split(" ")[1], process.env.JWT_SECRET);
  req.user = decoded;
  next();
} catch (err) {
 res.status(400).json({ msg: "Invalid token" });
}
```

```
};
```

export default auth;

```
🚀 Step 7: server.js
```

```
import express from "express";
import dotenv from "dotenv";
import connectDB from "./config/db.js";
import authRoutes from "./routes/auth.js";
dotenv.config();
const app = express();
connectDB();
app.use(express.json());
app.use("/api/auth", authRoutes);
app.get("/", (req, res) => {
});
const PORT = process.env.PORT || 5000;
app.listen(PORT, () => console.log(`Server running on port ${PORT}`));
```