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CLASS	622-B

- ➤ Full Stack PRACTICE 8.2
- CODE server.js :::

```
const express = require("express");
const jwt = require("jsonwebtoken");
const bodyParser = require("body-parser");
const app = express();
app.use(bodyParser.json());
const SECRET_KEY = "mysecretkey";
const user = {
 id: 1,
 username: "testuser",
 password: "password123",
};
// LOGIN ROUTE — issues a JWT token
app.post("/login", (req, res) => {
 const { username, password } = req.body;
 if (username === user.username && password === user.password) {
   const token = jwt.sign({ id: user.id, username: user.username }, SECRET_KEY,
```

```
expiresIn: "1h",
    });
    res.json({ token });
 } else {
    res.status(401).json({ message: "Invalid credentials" });
});
// JWT VERIFICATION MIDDLEWARE
function verifyToken(req, res, next) {
 const authHeader = req.headers["authorization"];
 if (!authHeader) {
   return res.status(401).json({ message: "Token missing" });
  const token = authHeader.split(" ")[1];
 jwt.verify(token, SECRET_KEY, (err, decoded) => {
    if (err) {
      return res.status(403).json({ message: "Invalid token" });
    req.user = decoded;
   next();
  });
// PROTECTED ROUTE — accessible only with valid JWT
app.get("/protected", verifyToken, (req, res) => {
  res.json({
   message: "You have accessed a protected route!",
   user: req.user,
 });
});
const PORT = 3000;
app.listen(PORT, () => console.log(`Server running on
http://localhost:${PORT}`));
```

OUTPUT:

