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const express = require("express");
const cors = require("cors");
const oracledb = require("oracledb");
const bcrypt = require("bcrypt");
const jwt = require("jsonwebtoken");
require("dotenv").config();

const app = express();
app.use(cors());
app.use(express.json());

let connection;

(async () => {
  try {
    connection = await oracledb.getConnection({
      user: process.env.DB_USER,
      password: process.env.DB_PASS,
      connectString: process.env.DB_CONNECT,
    });
    console.log("✅ Oracle Database connected");
  } catch (err) {
    console.error("❌ Error connecting to DB:", err);
  }
})();

// Login route
app.post("/api/login", async (req, res) => {
  const { username, password } = req.body;

  try {
    const result = await connection.execute(
      `SELECT * FROM admin WHERE username = :username`,
      [username]
    );

    if (result.rows.length === 0)
      return res.status(401).json({ message: "User not found" });

    const user = result.rows[0];
    const password_hash = user[2];

    const valid = await bcrypt.compare(password, password_hash);
    if (!valid) return res.status(401).json({ message: "Invalid password" });

    const token = jwt.sign({ username }, process.env.JWT_SECRET, { expiresIn:
"1h" });
    res.json({ token });
  } catch (err) {
    res.status(500).json({ error: err.message });
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  }
});

// Mark attendance
app.post("/api/attendance", async (req, res) => {
  const { student_name, status } = req.body;
  try {
    await connection.execute(
      `INSERT INTO attendance (student_name, status) VALUES (:name, :status)`,
      [student_name, status],
      { autoCommit: true }
    );
    res.json({ message: "Attendance recorded" });
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});

// Get attendance
app.get("/api/attendance", async (req, res) => {
  try {
    const result = await connection.execute(`SELECT * FROM attendance`);
    res.json(result.rows);
  } catch (err) {
    res.status(500).json({ error: err.message });
  }
});

app.listen(process.env.PORT, () =>
  console.log(`🚀 Server running at http://localhost:${process.env.PORT}`)
);
```