const readline = require("readline");

const rl = readline.createInterface({

input: process.stdin,

output: process.stdout,

});

let employees = [];

function showMenu() {

console.log("\nEmployee Management System");

console.log("1. Add Employee");

console.log("2. List Employees");

console.log("3. Search Employee");

console.log("4. Update Employee");

console.log("5. Delete Employee");

console.log("6. Exit");

rl.question("Choose an option: ", handleMenu);

}

function handleMenu(choice) {

switch (choice.trim()) {

case "1":

addEmployee();

break;

case "2":

listEmployees();

break;

case "3":

searchEmployee();

break;

case "4":

updateEmployee();

break;

case "5":

deleteEmployee();

break;

case "6":

rl.close();

break;

default:

console.log("Invalid choice");

showMenu();

}

}

function ask(question) {

return new Promise((resolve) => rl.question(question, resolve));

}

async function addEmployee() {

const name = await ask("Enter name: ");

const position = await ask("Enter position: ");

const salary = parseFloat(await ask("Enter salary: "));

const id = employees.length + 1;

employees.push({ id, name, position, salary });

console.log("✅ Employee added successfully!");

showMenu();

}

function listEmployees() {

if (employees.length === 0) {

console.log("No employees found.");

} else {

console.log("\nEmployees:");

employees.forEach((emp) => {

console.log(`${emp.id}. ${emp.name} - ${emp.position} - ₹${emp.salary}`);

});

}

showMenu();

}

async function searchEmployee() {

const query = await ask("Enter employee ID or name: ");

const found = employees.find(

(emp) =>

emp.id === parseInt(query) ||

emp.name.toLowerCase() === query.toLowerCase()

);

if (found) {

console.log(

`Found: ${found.id}. ${found.name} - ${found.position} - ₹${found.salary}`

);

} else {

console.log("Employee not found.");

}

showMenu();

}

async function updateEmployee() {

const id = await ask("Enter employee ID to update: ");

const emp = employees.find((e) => e.id === parseInt(id));

if (!emp) {

console.log("Employee not found.");

return showMenu();

}

const name = await ask(`Enter new name (${emp.name}): `);

const position = await ask(`Enter new position (${emp.position}): `);

const salary = await ask(`Enter new salary (${emp.salary}): `);

if (name.trim()) emp.name = name.trim();

if (position.trim()) emp.position = position.trim();

if (salary.trim()) emp.salary = parseFloat(salary);

console.log("✅ Employee updated successfully!");

showMenu();

}

async function deleteEmployee() {

const id = await ask("Enter employee ID to delete: ");

const index = employees.findIndex((e) => e.id === parseInt(id));

if (index !== -1) {

employees.splice(index, 1);

console.log("✅ Employee deleted successfully!");

} else {

console.log("Employee not found.");

}

showMenu();

}

showMenu();