import java.util.ArrayList;

import java.util.List;

class Main {

private int id;

private String name;

public Main(int id, String name) {

this.id = id;

this.name = name;

}

public int getId() {

return id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

}

public class UserCRUDExample {

private List<Main> userList = new ArrayList<>();

private int nextId = 1;

// Create

public void createUser(String name) {

Main newUser = new Main(nextId, name);

userList.add(newUser);

nextId++;

}

// Read

public Main getUser(int id) {

for (Main user : userList) {

if (user.getId() == id) {

return user;

}

}

return null; // User not found

}

// Update

public void updateUser(int id, String newName) {

for (Main user : userList) {

if (user.getId() == id) {

user.setName(newName);

return; // Exit after updating

}

}

}

// Delete

public void deleteUser(int id) {

userList.removeIf(user -> user.getId() == id);

}

public static void main(String[] args) {

UserCRUDExample crudExample = new UserCRUDExample();

// Create

crudExample.createUser("Alice");

crudExample.createUser("Bob");

crudExample.createUser("Charlie");

// Read

Main user1 = crudExample.getUser(1);

System.out.println("User 1: " + user1.getName());

// Update

crudExample.updateUser(2, "Robert");

Main user2 = crudExample.getUser(2);

System.out.println("User 2 updated name: " + user2.getName());

// Delete

crudExample.deleteUser(3);

Main user3 = crudExample.getUser(3);

System.out.println("User 3 (after deletion): " + (user3 == null ? "User not found" : user3.getName()));

}

}

Out put:

User1:Alice

User 2 updated name: Robert

User 3 ( After deletion): User not found