import org.junit.jupiter.api.BeforeEach;

import org.junit.jupiter.api.Test;

import org.junit.jupiter.api.Assertions;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.boot.test.context.SpringBootTest;

import org.springframework.transaction.annotation.Transactional;

@SpringBootTest

@Transactional

public class ProductModelTests {

@Autowired

private ProductRepository productRepository;

private Product testProduct;

@BeforeEach

public void setUp() {

// Create and save a test product

testProduct = new Product();

testProduct.setName("Original Product");

testProduct.setPrice(50.0);

productRepository.save(testProduct);

}

@Test

public void testUpdateProduct() {

// Retrieve the product by ID

Product productToUpdate = productRepository.findById(testProduct.getId()).orElse(null);

Assertions.assertNotNull(productToUpdate, "The product to update should not be null.");

// Update product attributes

productToUpdate.setName("Updated Product Name");

productToUpdate.setPrice(75.0);

productRepository.save(productToUpdate);

// Retrieve the product again to check the updates

Product updatedProduct = productRepository.findById(testProduct.getId()).orElse(null);

Assertions.assertNotNull(updatedProduct, "The updated product should not be null.");

Assertions.assertEquals("Updated Product Name", updatedProduct.getName(), "The product name should be updated.");

Assertions.assertEquals(75.0, updatedProduct.getPrice(), "The product price should be updated.");

}

}