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;

import java.util.List;

@SpringBootTest

@Transactional

public class ProductModelTests {

@Autowired

private ProductRepository productRepository;

@BeforeEach

public void setUp() {

// Create and save multiple test products with different availability statuses

Product product1 = new Product("Available Product", 10.0, true);

Product product2 = new Product("Unavailable Product", 20.0, false);

Product product3 = new Product("Another Available Product", 30.0, true);

productRepository.save(product1);

productRepository.save(product2);

productRepository.save(product3);

}

@Test

public void testFindByAvailability() {

// Retrieve available products

List<Product> availableProducts = productRepository.findByAvailability(true);

// Verify the number of available products retrieved

Assertions.assertEquals(2, availableProducts.size(), "There should be 2 available products.");

// Check that all retrieved products are available

Assertions.assertTrue(availableProducts.stream().allMatch(Product::isAvailability),

"All products should be marked as available.");

}

}