import org.junit.jupiter.api.BeforeEach;

import org.junit.jupiter.api.Test;

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

import org.springframework.boot.test.autoconfigure.web.servlet.AutoConfigureMockMvc;

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

import org.springframework.http.MediaType;

import org.springframework.test.web.servlet.MockMvc;

import static org.springframework.test.web.servlet.request.MockMvcRequestBuilders.get;

import static org.springframework.test.web.servlet.result.MockMvcResultMatchers.status;

import static org.springframework.test.web.servlet.result.MockMvcResultMatchers.jsonPath;

import java.util.List;

@SpringBootTest

@AutoConfigureMockMvc

public class ProductRoutesTests {

@Autowired

private MockMvc mockMvc;

@Autowired

private ProductRepository productRepository;

@BeforeEach

public void setUp() {

// Create and save multiple test products

Product product1 = new Product("Product 1", 10.0, true);

Product product2 = new Product("Product 2", 20.0, false);

Product product3 = new Product("Product 3", 30.0, true);

productRepository.save(product1);

productRepository.save(product2);

productRepository.save(product3);

}

@Test

public void testListAllProducts() throws Exception {

// Perform a GET request to retrieve all products

mockMvc.perform(get("/products")

.contentType(MediaType.APPLICATION\_JSON))

.andExpect(status().isOk())

.andExpect(jsonPath("$.length()").value(3)) // Assuming we saved 3 products

.andExpect(jsonPath("$[0].name").value("Product 1"))

.andExpect(jsonPath("$[1].name").value("Product 2"))

.andExpect(jsonPath("$[2].name").value("Product 3"));

}

}