# Mockito Exercise 2: Verifying Interactions

## Product.java

public class Product {  
 private String id;  
 private String name;  
  
 public Product(String id, String name) {  
 this.id = id;  
 this.name = name;  
 }  
  
 public String getId() { return id; }  
 public String getName() { return name; }  
}

## ProductRepository.java

public interface ProductRepository {  
 void save(Product product);  
 void deleteById(String id);  
}

## CartService.java

public class CartService {  
 private final ProductRepository productRepository;  
  
 public CartService(ProductRepository productRepository) {  
 this.productRepository = productRepository;  
 }  
  
 public void addProductToCart(Product product) {  
 productRepository.save(product);  
 }  
  
 public void removeProductFromCart(String productId) {  
 productRepository.deleteById(productId);  
 }  
}

## CartServiceTest.java

import org.junit.jupiter.api.Test;  
import static org.mockito.Mockito.\*;  
  
public class CartServiceTest {  
  
 @Test  
 public void testAddProductToCart\_VerifySaveCalled() {  
 ProductRepository mockRepo = mock(ProductRepository.class);  
 CartService cartService = new CartService(mockRepo);  
 Product product = new Product("1", "Laptop");  
  
 cartService.addProductToCart(product);  
 verify(mockRepo, times(1)).save(product);  
 }  
  
 @Test  
 public void testRemoveProductFromCart\_VerifyDeleteCalled() {  
 ProductRepository mockRepo = mock(ProductRepository.class);  
 CartService cartService = new CartService(mockRepo);  
 cartService.removeProductFromCart("1");  
 verify(mockRepo).deleteById("1");  
 }  
}

