# Unit Test Case

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| Unit | Developer | Date |
| *ProductsController* | *Sulejman* | *3/12/2017* |

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| Id | Description | Expected | Remarks |
| 1 | Get all products | Response Is Not Null | GET |
| 2 | Get product by Id | Response Is Not Null | GET |
| 3 | Get product by wrong Id | Response Is Null | GET |
| 4 | Insert product with good category (categoryId=1) | Success Status Code is TRUE | POST |
| 5 | Insert product with bad category (categoryId=999) | Success Status Code is FALSE | POST |
| 6 | Change product name | Success is TRUE | PUT |
| 7 | Change product category | Success is TRUE | PUT |
| 8 | Delete product (Id=3) | Success is TRUE | DELETE |
| 9 | Delete product (Id=999) | Success is FALSE | DELETE |

### Initialize database for unit test [Product]:

using (BillingContext context = new BillingContext())

{

context.Database.Delete();

context.Database.Create();

Category category = context.Categories.Add(new Category()

{ Name = "Test category number one" });

context.SaveChanges();

Product product = context.Products.Add(new Product()

{ Name = "Test product number one", Unit = "pcs",

Price = 100,Category = category });

context.SaveChanges();

context.Stocks.Add(new Stock() { Id = product.Id, Input = 120, Output = 66 });

context.Categories.Add(new Category() { Name = "Test category number two" });

context.SaveChanges();

}

Insert two categories (expected Id: 1 | 2)

Insert one product (expected Id: 1)

Insert one stock for product (linked to Product(1))