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Week 2  
1. Moq-Handson  
  
CustomerCommTests.cs  
**Code:**

using Moq;

using NUnit.Framework;

using CustomerCommLib;

namespace CustomerCommLib.Tests

{

[TestFixture]

public class CustomerCommTests

{

private Mock<IMailSender> \_mailMock;

private CustomerComm \_customerComm;

[OneTimeSetUp]

public void Init()

{

\_mailMock = new Mock<IMailSender>();

\_mailMock

.Setup(m => m.SendMail(It.IsAny<string>(), It.IsAny<string>()))

.Returns(true);

\_customerComm = new CustomerComm(\_mailMock.Object);

}

[TestCase]

public void SendMailToCustomer\_ShouldReturnTrue()

{

var result = \_customerComm.SendMailToCustomer();

Assert.IsTrue(result);

\_mailMock.Verify(

m => m.SendMail(It.IsAny<string>(), It.IsAny<string>()),

Times.Once);

}

}

}  
  
CustomerComm.cs:  
**Code:**  
namespace CustomerCommLib

{

public class CustomerComm

{

private readonly IMailSender \_mailSender;

public CustomerComm(IMailSender mailSender)

{

\_mailSender = mailSender;

}

public bool SendMailToCustomer()

{

const string to = "cust123@abc.com";

const string msg = "Some Message";

return \_mailSender.SendMail(to, msg);

}

}

}  
  
  
IMailSender.cs:  
**Code:**  
namespace CustomerCommLib

{

public interface IMailSender

{

bool SendMail(string toAddress, string message);

}

}

MailSender.cs:  
**Code:**  
using System.Net;

using System.Net.Mail;

namespace CustomerCommLib

{

public class MailSender : IMailSender

{

public bool SendMail(string toAddress, string message)

{

var mail = new MailMessage();

var smtp = new SmtpClient("smtp.gmail.com")

{

Port = 587,

Credentials = new NetworkCredential("username", "password"),

EnableSsl = true

};

mail.From = new MailAddress("your\_email\_address@gmail.com");

mail.To.Add(toAddress);

mail.Subject = "Test Mail";

mail.Body = message;

smtp.Send(mail);

return true;

}

}

}

**Output:** **A screenshot of a computer program

AI-generated content may be incorrect.**

A screenshot of a computer

AI-generated content may be incorrect.