

Apex Triggers

Get Started with Apex Triggers

```
trigger AccountAddressTrigger on Account (before insert,before update) {
```

```
List<Account> acclst=new List<Account>();
```

```
for(account a:trigger.new){
```

```
    if(a.Match_Billing_Address__c==true && a.BillingPostalCode!=null){
```

```
        a.ShippingPostalCode=a.BillingPostalCode;
```

```
    }
```

```
}
```

```
}
```

2. Bulk Apex Triggers

```
trigger ClosedOpportunityTrigger on Opportunity (after insert, after update) {
```

```
    List<Task> taskList = new List<Task>();
```

```
    for(Opportunity opp : Trigger.new) {
```

```
        //Only create Follow Up Task only once when Opp StageName is to 'Closed Won' on Create
```

```
        if(Trigger.isInsert) {
```

```
            if(Opp.StageName == 'Closed Won') {
```

```
                taskList.add(new Task(Subject = 'Follow Up Test Task', WhatId = opp.Id));
```

```
            }
```

```
        }
```

```
        //Only create Follow Up Task only once when Opp StageName changed to 'Closed Won' on Update
```

```
        if(Trigger.isUpdate) {
```

```
            if(Opp.StageName == 'Closed Won'
```

```
                && Opp.StageName != Trigger.oldMap.get(opp.Id).StageName) {
```

```
        taskList.add(new Task(Subject = 'Follow Up Test Task', WhatId = opp.Id));
    }
}
}

if(taskList.size()>0) {
    insert taskList;
}
}
```

Apex Testing

1. Get Started with Apex Unit Tests

VerifyDate class :

```
public class VerifyDate {

    //method to handle potential checks against two dates

    public static Date CheckDates(Date date1, Date date2) {

        //if date2 is within the next 30 days of date1, use date2. Otherwise use the end of the month

        if(DateWithin30Days(date1,date2)) {
```

```
    return date2;

} else {

    return SetEndOfMonthDate(date1);

}

}
```

//method to check if date2 is within the next 30 days of date1

```
private static Boolean DateWithin30Days(Date date1, Date date2) {
```

```
    //check for date2 being in the past
```

```
    if( date2 < date1) { return false; }
```

```
    //check that date2 is within (>=) 30 days of date1
```

```
    Date date30Days = date1.addDays(30); //create a date 30 days away from date1
```

```
    if( date2 >= date30Days ) { return false; }
```

```
    else { return true; }
```

```
}
```

//method to return the end of the month of a given date

```
private static Date SetEndOfMonthDate(Date date1) {
```

```
    Integer totalDays = Date.daysInMonth(date1.year(), date1.month());
```

```
    Date lastDay = Date.newInstance(date1.year(), date1.month(), totalDays);
```

```
    return lastDay;
```

```
}
```

```
}
```

TestVerifyDate:

```
@isTest    public    class
```

```
TestVerifyDate
```

```
{
```

```
    static testMethod void testMethod1()
```

```
    {
```

```
        Date d = VerifyDate.CheckDates(System.today(),System.today()+1);
```

```
        Date d1 = VerifyDate.CheckDates(System.today(),System.today()+60);    }
```

```
}
```

2. Test Apex Triggers

RestrictContactByName :

```
trigger RestrictContactByName on Contact (before insert, before update) {
```

//check contacts prior to insert or update for invalid data

For (Contact c : Trigger.New) {

if(c.LastName == 'INVALIDNAME') { //invalidname is invalid

c.AddError('The Last Name "' + c.LastName + '" is not allowed for DML');

}

}

}

TestRestrictContactByName :

@isTest private class

TestRestrictContactByName {

static testMethod void metodoTest()

{

List<Contact> listContact= new List<Contact>();

Contact c1 = new Contact(FirstName='Francesco', LastName='Riggio' ,
email='Test@test.com');

Contact c2 = new Contact(FirstName='Francesco1', LastName =
'INVALIDNAME',email='Test@test.com');

```
listContact.add(c1);
```

```
listContact.add(c2);
```

```
Test.startTest();
```

```
try
```

```
{
```

```
    insert listContact;
```

```
}
```

```
catch(Exception ee)
```

```
{
```

```
}
```

```
Test.stopTest();
```

```
}
```

```
}
```

3.Create Test Data for Apex Tests

RandomContactFactory class :

```
//@isTest      public      class
```

```
RandomContactFactory {
```

```

    public static List<Contact> generateRandomContacts(Integer numContactsToGenerate,
String FName) {

    List<Contact> contactList = new List<Contact>();

    for(Integer i=0;i<numContactsToGenerate;i++) {

        Contact c = new Contact(FirstName=FName + ' ' + i, LastName = 'Contact '+i);
contactList.add(c);

        System.debug(c);

    }

    //insert contactList;

    System.debug(contactList.size());

    return contactList;

}

}

```

Asynchronous Apex

1.Use Future Methods

```

public class AccountProcessor {

```


@future

```
public static void countContacts(List<Id> accountIds){  
  
    List<Account> accounts = [Select Id, Name from Account Where Id IN : accountIds];  
  
    List<Account> updatedAccounts = new List<Account>();  
  
    for(Account account : accounts){  
  
        account.Number_of_Contacts__c = [Select count() from Contact Where AccountId =:  
account.Id];  
  
        System.debug('No Of Contacts = ' + account.Number_of_Contacts__c);  
  
        updatedAccounts.add(account);  
  
        }  
  
        update updatedAccounts;  
  
    }  
  
}
```

test class///

```
@isTest      public      class  
  
AccountProcessorTest {  
  
    @isTest  
  
    public static void testNoOfContacts(){  
  
        Account a = new Account();  
  
        a.Name = 'Test Account';  
  
        Insert a;
```

```
Contact c = new Contact();
```

```
c.FirstName = 'Bob';
```

```
c.LastName = 'Willie';
```

```
c.AccountId = a.Id;
```

```
Contact c2 = new Contact();
```

```
c2.FirstName = 'Tom';
```

```
c2.LastName = 'Cruise';
```

```
c2.AccountId = a.Id;
```

```
List<Id> acctIds = new List<Id>();
```

```
acctIds.add(a.Id);
```

```
Test.startTest();
```

```
AccountProcessor.countContacts(acctIds);
```

```
Test.stopTest();
```

```
}
```

```
}
```

2.Use Batch Apex `public class LeadProcessor implements`

`Database.Batchable<sObject> {` `public Database.QueryLocator`

```

start(Database.BatchableContext bc) {

    // collect the batches of records or objects to be passed to execute

    return Database.getQueryLocator([Select LeadSource From Lead ]);

}

public void execute(Database.BatchableContext bc, List<Lead> leads){

    // process each batch of records

    for (Lead Lead : leads) {

        lead.LeadSource = 'Dreamforce';

    }

    update leads;

}

public void finish(Database.BatchableContext bc){

}

}

test class//

```

@isTest

```

public class LeadProcessorTest {

```

```

    @testSetup

    static void setup() {

        List<Lead> leads = new List<Lead>();

        for(Integer counter=0 ;counter <200;counter++){

            Lead lead = new Lead();

            lead.FirstName ='FirstName';

            lead.LastName ='LastName'+counter;

            lead.Company ='demo'+counter;

            leads.add(lead);

        }

        insert leads;

    }


    @isTest static void test() {

        Test.startTest();

        LeadProcessor leadProcessor = new LeadProcessor();

        Id batchId = Database.executeBatch(leadProcessor);

        Test.stopTest();

    }

}

```

3.Control Processes with Queueable Apex *public*

class AddPrimaryContact implements Queueable

{

private Contact c;

private String state;

public AddPrimaryContact(Contact c, String state)

{

this.c = c;

this.state = state;

}

public void execute(QueueableContext context)

{

List<Account> ListAccount = [SELECT ID, Name ,(Select id,FirstName,LastName from contacts) FROM ACCOUNT WHERE BillingState = :state LIMIT 200];

List<Contact> lstContact = new List<Contact>();

for (Account acc:ListAccount)

{

Contact cont = c.clone(false,false,false,false);

cont.AccountId = acc.id;

lstContact.add(cont);

}

if(lstContact.size() >0)

{

```

        insert lstContact;

    }

}
test class///

@isTest      public      class
AddPrimaryContactTest
{

    @isTest static void TestList()
    {

        List<Account> Teste = new List <Account>();

        for(Integer i=0;i<50;i++)
        {

            Teste.add(new Account(BillingState = 'CA', name = 'Test'+i));      }

        for(Integer j=0;j<50;j++)
        {

            Teste.add(new Account(BillingState = 'NY', name = 'Test'+j));

        }

        insert Teste;

        Contact co = new Contact();

        co.FirstName='demo';

```

```

    co.LastName ='demo';

    insert co;

    String state = 'CA';

    AddPrimaryContact apc = new AddPrimaryContact(co, state);

    Test.startTest();

    System.enqueueJob(apc);

    Test.stopTest();

}}

```

4.Schedule Jobs Using the Apex Scheduler

```

public class DailyLeadProcessor implements Schedulable {

    Public void execute(SchedulableContext SC){

        List<Lead> LeadObj=[SELECT Id from Lead where LeadSource=null limit 200];

        for(Lead l:LeadObj){

            l.LeadSource='Dreamforce';

            update l;

        }

    }

}

test class ///

@isTest private class DailyLeadProcessorTest { static

```

```

testMethod void testDailyLeadProcessor() {

    String CRON_EXP = '0 0 1 * * ?';

    List<Lead> lList = new List<Lead>();

    for (Integer i = 0; i < 200; i++) {

        lList.add(new Lead(LastName='Dreamforce'+i, Company='Test1 Inc.',
Status='Open - Not Contacted'));

        } insert

        lList;

        Test.startTest();

        String jobId = System.schedule('DailyLeadProcessor', CRON_EXP, new
DailyLeadProcessor());

    }

}

```

Apex Integration Services

1.Apex REST Callouts Class

AnimalLocator//

```
public class AnimalLocator{
```



```

public static String getAnimalNameById(Integer x){

    Http http = new Http();

    HttpRequest req = new HttpRequest();

    req.setEndpoint('https://th-apex-http-callout.herokuapp.com/animals/' + x);

    req.setMethod('GET');

    Map<String, Object> animal= new Map<String, Object>();

    HttpResponse res = http.send(req);

    if (res.getStatusCode() == 200) {

        Map<String, Object> results = (Map<String,
Object>)JSON.deserializeUntyped(res.getBody());        animal = (Map<String, Object>)
results.get('animal');

    }

    return (String)animal.get('name');

}
}

```

AnimalLocatorTest//

```
@isTest    private    class
```

```
AnimalLocatorTest{
```

```
    @isTest static void AnimalLocatorMock1() {
```

```
        Test.setMock(HttpCalloutMock.class, new AnimalLocatorMock());
```

```

        string result = AnimalLocator.getAnimalNameById(3);

        String expectedResult = 'chicken';

        System.assertEquals(result,expectedResult );

    }

}

AnimalLocatorMock//

@isTest global class AnimalLocatorMock implements
HttpCalloutMock {

    // Implement this interface method

    global HTTPResponse respond(HTTPRequest request) {

        // Create a fake response

        HttpResponse response = new HttpResponse();

        response.setHeader('Content-Type', 'application/json');

        response.setBody('{"animals": ["majestic badger", "fluffy bunny", "scary bear",
"chicken", "mighty moose"]}');

        response.setStatusCode(200);

        return response;

    }

}

```

2.Apex SOAP Callouts

ParkLocator class/////

```
public class ParkLocator {  
  
    public static String[] country(String theCountry) {  
  
        ParkService.ParksImplPort parkSvc = new ParkService.ParksImplPort(); // remove space  
return parkSvc.byCountry(theCountry);  
  
    }  
  
}
```

ParkLocatorTest class/////

```
@isTest    private    class  
  
ParkLocatorTest {  
  
    @isTest static void testCallout() {  
  
        Test.setMock(WebServiceMock.class, new ParkServiceMock ());  
  
        String country = 'United States';  
  
        List<String> result = ParkLocator.country(country);  
  
        List<String> parks = new List<String>{'Yellowstone', 'Mackinac National Park', 'Yosemite'};  
System.assertEquals(parks, result);  
  
    }  
  
}
```

ParkServiceMock class /////

@isTest global class ParkServiceMock implements

WebServiceMock {

global void doInvoke(

Object stub,

Object request,

Map<String, Object> response,

String endpoint,

String soapAction,

String requestName,

String responseNS,

String responseName,

String responseType) {

// start - specify the response you want to send

ParkService.byCountryResponse response_x = new ParkService.byCountryResponse();

*response_x.return_x = new List<String>{'Yellowstone', 'Mackinac National Park',
'Yosemite'};*

// end

response.put('response_x', response_x);

}

}

4.Apex Web Services

AccountManagerTest/////

@isTest private class

AccountManagerTest {

private static testMethod void getAccountTest1() {

Id recordId = createTestRecord();

// Set up a test request

RestRequest request = new RestRequest();

*request.requestUri = 'https://na1.salesforce.com/services/apexrest/Accounts/'+ recordId
+ '/contacts' ;*

request.httpMethod = 'GET';

RestContext.request = request;

// Call the method to test

Account thisAccount = AccountManager.getAccount();

// Verify results

System.assert(thisAccount != null);

System.assertEquals('Test record', thisAccount.Name);

```
}
```

```
// Helper method
```

```
static Id createTestRecord() {
```

```
    // Create test record
```

```
    Account TestAcc = new Account(
```

```
        Name='Test record');
```

```
    insert TestAcc;
```

```
    Contact TestCon= new Contact(
```

```
        LastName='Test',
```

```
        AccountId = TestAcc.id);
```

```
    return TestAcc.Id;
```

```
}
```

```
}
```

```
AccountManager////////
```

```
@RestResource(urlMapping='/Accounts/*/contacts')
```

```
global class AccountManager {
```

```
    @HttpGet
```

```
    global static Account getAccount() {
```

```
        RestRequest req = RestContext.request;
```

```
        String accId = req.requestURI.substringBetween('Accounts/', '/contacts');
```

```
Account acc = [SELECT Id, Name, (SELECT Id, Name FROM Contacts)
               FROM Account WHERE Id = :accId];

return acc;

}}
```

APEX SPECIALIST SUPERBADGE

Challenge #1

MaintenanceRequest.trigger trigger MaintenanceRequest on

Case (before update, after update) { Map<Id,Case>

validCaseMap = new Map<Id,Case>();

```
if(Trigger.isUpdate && Trigger.isAfter){

    for(Case caseHere: Trigger.new){

        if (caseHere.IsClosed && (caseHere.Type.equals('Repair') ||
caseHere.Type.equals('Routine Maintenance'))){

            validCaseMap.put(caseHere.Id, caseHere);

        }

    }

}
```

```
}
```

```
if(!validCaseMap.values().isEmpty()){
```

```
    MaintenanceRequestHelper.createNewRequest(validCaseMap);
```

```
}
```

```
}
```

```
}
```

```
MaintenanceRequestHelper.cls    public
```

```
class MaintenanceRequestHelper {
```

```
    public static void createNewRequest(Map<Id, Case> validCaseMap){
```

```
        List<Case> newCases = new List<Case>();
```

```
        Map<Id, Integer> productMaintenanceCycleMap = new Map<Id, Integer>();
```

```
        Map<Id, Integer> workPartMaintenanceCycleMap = new Map<Id, Integer>();
```



```

        for (Product2 productHere : [select Id, Maintenance_Cycle__c from Product2]) {

            if (productHere.Maintenance_Cycle__c != null) {

                productMaintenanceCycleMap.put(productHere.Id,
Integer.valueOf(productHere.Maintenance_Cycle__c));

            }

        }

        for (Work_Part__c workPart : [select Id, Equipment__c, Maintenance_Request__c from
Work_Part__c where Maintenance_Request__c in :validCaseMap.keySet()]) {

            if (workPart.Equipment__c != null) {

                if(!workPartMaintenanceCycleMap.containsKey(workPart.Maintenance_Request__c)){

                    workPartMaintenanceCycleMap.put(workPart.Maintenance_Request__c,
productMaintenanceCycleMap.get(workPart.Equipment__c));

                }

                else if(productMaintenanceCycleMap.get(workPart.Equipment__c) <
workPartMaintenanceCycleMap.get(workPart.Maintenance_Request__c)){

                    workPartMaintenanceCycleMap.put(workPart.Maintenance_Request__c,
productMaintenanceCycleMap.get(workPart.Equipment__c));

                }

            }

        }

```

```
}  
  
}
```

```
for(Case caseHere: validCaseMap.values()){  
  
    Case newCase = new Case();  
  
    newCase.Vehicle__c = caseHere.Vehicle__c;  
  
    newCase.Equipment__c = caseHere.Equipment__c;  
  
    newCase.Type = 'Routine Maintenance';  
  
    newCase.Subject = String.isBlank(caseHere.Subject) ? 'Routine Maintenance Request' :  
caseHere.Subject + ' New';  
  
    newCase.Date_Reported__c = Date.today();  
  
    newCase.Date_Due__c =  
workPartMaintenanceCycleMap.containsKey(caseHere.Product__c) ?  
Date.today().addDays(workPartMaintenanceCycleMap.get(caseHere.Product__c))      :  
  
Date.today();    newCase.Status = 'New';  
  
    newCase.Product__c = caseHere.Product__c;  
  
    newCase.AccountId = caseHere.AccountId;  
  
    newCase.ContactId = caseHere.ContactId;
```

```
newCase.AssetId = caseHere.AssetId;
```

```
newCase.Origin = caseHere.Origin;
```

```
newCase.Reason = caseHere.Reason;
```

```
newCases.add(newCase);
```

```
}
```

```
if(newCases.size() > 0){
```

```
insert newCases;
```

```
}
```

```
}
```

```
}
```

Challenge #2

WarehouseCalloutService.cls

```
public with sharing class WarehouseCalloutService {      private static final String  
WAREHOUSE_URL = 'https://th-superbadgeapex.herokuapp.com/equipment';
```

```
// complete this method to make the callout (using @future) to the
```

```
// REST endpoint and update equipment on hand.
```

```
@future(callout=true)
```

```
public static void runWarehouseEquipmentSync(){
```

```
    Http http = new Http();
```

```
    HttpRequest request = new HttpRequest();
```

```
    request.setEndpoint(WAREHOUSE_URL);
```

```
    request.setMethod('GET');
```

```
    HttpResponse response = http.send(request);
```

```
    if (response.getStatusCode() == 200) {
```

```
        List<Object> results = (List<Object>) JSON.deserializeUntyped(response.getBody());
```

```
List<Product2> equipmentList = new List<Product2>();
```

```
for (Object record: results) {
```

```
    Map<String, Object> recordMap = (Map<String, Object>)record;
```

```
    Product2 equipment = new Product2();
```

```
    equipment.Name = (String)recordMap.get('name');
```

```
    equipment.Cost__c = (Decimal)recordMap.get('cost');
```

```
    equipment.ProductCode = (String)recordMap.get('_id');
```

```
    equipment.Current_Inventory__c = (Integer)recordMap.get('quantity');
```

```
    equipment.Maintenance_Cycle__c = (Integer)recordMap.get('maintenanceperiod');
```

```
    equipment.Replacement_Part__c = (Boolean)recordMap.get('replacement');
```

```
    equipment.Lifespan_Months__c = (Integer)recordMap.get('lifespan');
```

```
    equipment.Warehouse_SKU__c = (String)recordMap.get('sku');
```

```
    equipmentList.add(equipment);
```

```
}
```

```
if(equipmentList.size() > 0){
```

```
    upsert equipmentList;
```

```
}
```

```
}
```

```
}
```

```
}
```

challenge #3 \WarehouseSyncSchedule.cls public class

WarehouseSyncSchedule implements Schedulable{

// implement scheduled code here

```
public void execute(System.SchedulableContext context){
```

```
    WarehouseCalloutService.runWarehouseEquipmentSync();
```

```
}
```

```
}
```

Challenge #4 @isTest public class

```
MaintenanceRequestTest {
```

```
@testSetup
```

```
static void setup(){
```

```
    Product2 prod = new Product2();
```

```
    prod.Cost__c = 50;
```

```
    prod.Name = 'Ball Valve 10 cm';
```

```
    prod.Lifespan_Months__c = 12;
```

```
    prod.Maintenance_Cycle__c = 365;
```

```
    prod.Current_Inventory__c = 50;    prod.Replacement_Part__c = true;
```

```
    prod.Warehouse_SKU__c = '100009';
```

```
    insert prod;
```

```
    Product2 prod2 = new Product2();
```

```
prod2.Cost__c = 50;
```

```
prod2.Name = 'Ball Valve 10 cm';
```

```
prod2.Lifespan_Months__c = 12;
```

```
prod2.Maintenance_Cycle__c = 240;
```

```
prod2.Current_Inventory__c = 50;
```

```
prod2.Replacement_Part__c = true;
```

```
prod2.Warehouse_SKU__c = '100009';
```

```
insert prod2;
```

```
List<Case> caseList = new List<Case>();    for(Integer i=0; i<300; i++) {
```

```
    Case caseNew = new Case();
```

```
    caseNew.Subject = 'Maintenance ' + i;
```

```
    caseNew.Type = 'Other';
```

```
    caseNew.Status = 'New';
```

```
    caseNew.Equipment__c = prod.Id;
```

```
    caseNew.SuppliedName = 'Test';
```



```
caseList.add(caseNew);
```

```
if(i==10){
```

```
    caseNew.Subject = 'Maintenance test 10';
```

```
}
```

```
}
```

```
insert caseList;
```

```
List<Work_Part__c> workPartList = new List<Work_Part__c>();
```

```
for(Case caseHere : [select Id, Subject from Case where SuppliedName = 'Test']) {
```

```
    Work_Part__c workPart = new Work_Part__c();
```

```
    workPart.Maintenance_Request__c = caseHere.Id;
```

```
    workPart.Equipment__c = prod.Id;
```

```
    workPartList.add(workPart);
```

```
if(caseHere.Subject == 'Maintenance test 10'){
```

```
    Work_Part__c workPart2 = new Work_Part__c();
```

```
    workPart2.Maintenance_Request__c = caseHere.Id;
```

```
    workPart2.Equipment__c = prod2.Id;
```

```
    workPartList.add(workPart2);
```

```
}
```

```
}
```

```
insert workPartList;
```

```
}
```

```
@isTest
```

```
static void testMaintenanceRequest(){
```

```
    List<Case> caseList = new List<Case>();
```

```
    for(Case caseHere : [select Id from Case where SuppliedName = 'Test']) {
```

```
        caseHere.Type = 'Repair';
```

```
caseHere.Status = 'Closed';
```

```
caseList.add(caseHere);
```

```
}
```

```
Test.startTest();
```

```
update caseList;
```

```
System.assertEquals(300, [SELECT count() FROM Case WHERE Type = 'Routine  
Maintenance' and Date_Reported__c = :Date.today()]);
```

```
Test.stopTest();
```

```
}
```

```
}
```

Challenge #5

WarehouseCalloutServiceMock.cls

```
public class WarehouseCalloutServiceMock implements HttpCalloutMock {
```

```
    private String responseJson = '[' +
```

```
        '{"_id":"55d66226726b611100aaf741","replacement":false,"quantity":5,"name":"Generator  
1000 kW","maintenanceperiod":365,"lifespan":120,"cost":5000,"sku":"100003"},' +
```

```
        '{"_id":"55d66226726b611100aaf742","replacement":true,"quantity":183,"name":"Cooling  
Fan","maintenanceperiod":0,"lifespan":0,"cost":300,"sku":"100004"},' +
```

```
        '{"_id":"55d66226726b611100aaf743","replacement":true,"quantity":143,"name":"Fuse  
20A","maintenanceperiod":0,"lifespan":0,"cost":22,"sku":"100005"}' +
```

```
    '];
```

```
// Implement this interface method
```

```
public HTTPResponse respond(HTTPRequest request) {
```

```
    // Create a fake response
```

```
    HttpResponse response = new HttpResponse();
```

```
    response.setHeader('Content-Type', 'application/json');
```

```
    response.setBody(responseJson);
```

```
    response.setStatusCode(200);
```

```
return response;
```

```
}
```

```
}
```

WarehouseCalloutServiceTest.cls

```
@isTest      private      class
```

```
WarehouseCalloutServiceTest {
```

```
@isTest
```

```
static void testRunWarehouseEquipmentSync(){
```

```
Test.setMock(HttpCalloutMock.class, new WarehouseCalloutServiceMock());
```

```
Test.startTest();
```

```
WarehouseCalloutService.runWarehouseEquipmentSync();
```

```
Test.stopTest();
```

```
System.assertEquals(3, [select count() from Product2]);
```

```
}
```

```
}
```

Challenge #6

WarehouseSyncScheduleTest.cls

```
@isTest          public          class
```

```
WarehouseSyncScheduleTest {
```

```
    public static String CRON_EXP = '0 0 1 * * ?';
```

```
@isTest
```

```
static void testExecute(){
```

```
    Test.setMock(HttpCalloutMock.class, new WarehouseCalloutServiceMock());
```

```
    Test.startTest();
```

```
    String jobId = System.schedule('WarehouseSyncScheduleTest', CRON_EXP, new  
WarehouseSyncSchedule());
```

```
    Test.stopTest();
```

```
    System.assertEquals(1, [SELECT count() FROM CronTrigger WHERE CronJobDetail.Name =
```

```
'WarehouseSyncScheduleTest']);
```

```
}
```

```
}
```


