

Apex Triggers

- Get Started with apex Triggers

AccountAddressTrigger.apxt

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

```
    for(Account: Trigger.New ){
        if(account.Match_Billing_Address__c == true){
            account.ShippingPostalCode= account.BillingPostalCode;
        }
    }
}
```

- Bulk Apex Triggers

ClosedOpportunityTrigger.apxt

```
trigger ClosedOpportunityTrigger on Opportunity (after insert, after update) {
    List<Task> tasklist=new List<Task>();
    for(Opportunity opp: Trigger.New){
        if(opp.StageName=='Closed Won'){
            tasklist.add(new Task(Subject='Follow Up Test Task', WhatId= opp.Id));
        }
    }
    if(tasklist.size(>0){
        insert tasklist;
    }
}
```

Apex Testing

- Get Started with Apex Unit Tests

VerifyDate.apxc

```
public class VerifyDate {

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

        if(DateWithin30Days(date1,date2)) {
            return date2;
        } else {
            return SetEndOfMonthDate(date1);
        }
    }

    //method to check if date2 is within the next 30 days of date1
    @TestVisible 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
    @TestVisible 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.apxc

@isTest

private class TestVerifyDate {

 @isTest static void Test_CheckDates_case1(){

 Date D=VerifyDate.CheckDates(date.parse('01/01/2022'), date.parse('01/05/2022'));

 System.assertEquals(date.parse('01/05/2022'),D);

 }

 @isTest static void Test_CheckDates_case2(){

 Date D=VerifyDate.CheckDates(date.parse('01/01/2022'), date.parse('05/05/2022'));

 System.assertEquals(date.parse('01/31/2022'),D);

 }

 @isTest static void Test_DateWithin30Days_case1(){

 Boolean flag=VerifyDate.DateWithin30Days(date.parse('01/01/2022'),
date.parse('12/30/2021'));

 System.assertEquals(false,flag);

 }

 @isTest static void Test_DateWithin30Days_case2(){

 Boolean flag=VerifyDate.DateWithin30Days(date.parse('01/01/2022'),
date.parse('02/02/2022'));

 System.assertEquals(false,flag);

 }

 @isTest static void Test_DateWithin30Days_case3(){

 Boolean flag=VerifyDate.DateWithin30Days(date.parse('01/01/2022'),
date.parse('01/15/2022'));

 System.assertEquals(true,flag);

 }

 @isTest static void Test_SetEndOfMonthDate(){

 Date returndate=VerifyDate.SetEndOfMonthDate(date.parse('01/01/2022'));

 }

```
}
```

- Test Apex Triggers

RestrictContactByName.apxt

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

```
@isTest  
public class TestRestrictContactByName {  
    @isTest static void Test_insertupdateContact(){  
        Contact c=new Contact();  
        c.LastName='INVALIDNAME';  
  
        Test.startTest();  
        Database.SaveResult result= Database.insert(c, false);  
        Test.stopTest();  
  
        System.assert(!result.isSuccess());  
        System.assert(result.getErrors().size()>0);  
        System.assertEquals("The Last Name \"INVALIDNAME\" is not allowedfor  
DML',result.getErrors()[0].getMessage());  
    }  
}
```

- Create Test Data for Apex Tests

RandomContactFactory.apxc

```
public class RandomContactFactory {

    public static List < Contact > generateRandomContacts(Integer numcnt, String lastname){
        List < Contact > contacts=new List < Contact >();
        for(Integer i=0;i<numcnt;i++){
            Contact cnt =new Contact(FirstName= 'Test '+i, LastName= lastname);
            contacts.add(cnt);
        }
        return contacts;
    }

}
```

Asynchronous Apex

- Use Future Methods

AccountProcessor.apxc

```
public class AccountProcessor {
    @future
    public static void countContacts(List<Id> accountIds) {
        List<Account> accountsToUpdate=new List<Account>();
        List<Account> accounts = [Select Id, Name, (Select Id from Contacts) from Account
Where Id IN :accountIds];
        for(Account acc: accounts){
            List<Contact> contactList= acc.Contacts;
            acc.Number_Of_Contacts__c=contactList.size();
            accountsToUpdate.add(acc);
        }
        update accountsToUpdate;
    }
}
```

```
}
```

AccountProcessorTest.apxc

```
@isTest
private class AccountProcessorTest {
    @isTest
    private static void testCountContacts() {
        Account newAccount= new Account(Name='Test Account');
        insert newAccount;

        Contact newContact1= new Contact(FirstName='John', LastName='Doe',
AccountId=newAccount.Id);
        insert newContact1;

        Contact newContact2= new Contact(FirstName='Jane', LastName='Doe',
AccountId=newAccount.Id);
        insert newContact2;

        List<Id> accountIds= new List<Id>();
        accountIds.add(newAccount.Id);
        Test.startTest();
        AccountProcessor.countContacts(accountIds);
        Test.stopTest();
    }
}
```

- Use Batch Apex

LeadProcessor.apxc

```
global class LeadProcessor implements Database.Batchable<sObject>{
    global Integer count=0;

    global Database.QueryLocator start(Database.BatchableContext bc) {
```

```

        return Database.getQueryLocator('SELECT ID, LeadSource FROM Lead');
    }
    global void execute(Database.BatchableContext bc, List<lead> L_list){
        List<lead> L_list_new = new List<lead>();
        for (lead L : L_list) {
            L.leadsource='Dreamforce';
            L_list_new.add(L);
            count+=1;
        }
        update L_list_new;
    }
    global void finish(Database.BatchableContext bc){
        System.debug('count = '+ count);
    }
}

```

LeadProcessorTest.apxc

```

@isTest
public class LeadProcessorTest {
    @isTest
    public static void testit() {
        List<lead> L_list = new List<lead>();

        for (Integer i=0;i<200;i++) {
            Lead l=new lead();
            L.LastName='name'+i;
            L.Company='Company';
            L.Status='Random Status';
            L_list.add(L);
        }
        insert L_list;

        Test.startTest();
        LeadProcessor lp = new LeadProcessor();
        Id batchId = Database.executeBatch(lp);
    }
}

```

```

        Test.stopTest();
    }
}

```

- Control Processes with Queueable Apex

AddPrimaryContact.apxc

```

public class AddPrimaryContact implements Queueable {
    private Contact con;
    private String state;

    public AddPrimaryContact(Contact con, String state) {
        this.con = con;
        this.state = state;
    }

    public void execute(QueueableContext context) {
        List<Account> accounts=[Select Id, Name, (Select FirstName, LastName, Id from contacts)
from Account where BillingState = :state Limit 200];
        List<Contact> primaryContacts= new List<Contact>();

        for(Account acc:accounts){
            Contact c=con.clone();
            c.AccountId=acc.Id;
            primaryContacts.add(c);
        }
        if(primaryContacts.size()>0){
            insert primaryContacts;
        }
    }
}

```

AddPrimaryContactTest.apxc

```

@isTest

```



```

public class AddPrimaryContactTest {

    static testmethod void testQueueable() {
        List<Account> testAccounts = new List<Account>();
        for(Integer i=0;i<50;i++){
            testAccounts.add(new Account(Name='Account '+i,BillingState='CA'));
        }
        for(Integer j=0;j<50;j++){
            testAccounts.add(new Account(Name='Account '+j,BillingState='NY'));
        }
        insert testAccounts;

        Contact testContact =new Contact(FirstName='John', LastName='Doe');
        insert testContact;
        AddPrimaryContact addit =new addPrimaryContact(testContact, 'CA');

        Test.startTest();
        System.enqueueJob(addit);
        Test.stopTest();
        System.assertEquals(50, [select count() from Contact where accountId in (Select Id from
Account where BillingState ='CA')]);
    }
}

```

- Schedule Jobs Using the Apex Scheduler

DailyLeadProcessor.apxc

```

global class DailyLeadProcessor implements Schedulable {
    global void execute(SchedulableContext ctx) {
        List<lead> leadstoupdate= new List<lead>();
        List<Lead> leads = [SELECT Id From Lead Where LeadSource= NULL Limit 200];
        for(Lead l:leads){
            l.LeadSource='Dreamforce';
            leadstoupdate.add(l);
        }
    }
}

```

```

        update leadstoupdate;
    }
}

```

DailyLeadProcessorTest.apxc

```

@isTest
private class DailyLeadProcessorTest {

    public static String CRON_EXP = '0 0 0 15 6 ? 2022';
    static testmethod void testScheduledJob() {
        List<Lead> leads = new List<lead>();
        for (Integer i=0; i<200; i++) {
            Lead l = new Lead(
                FirstName = 'First ' + i,
                LastName = 'LastName',
                Company = 'The Inc'
            );
            leads.add(l);
        }
        insert leads;

        Test.startTest();
        String jobId = System.schedule('ScheduledApexTest',CRON_EXP,new
DailyLeadProcessor());
        Test.stopTest();

        List<Lead> checkleads= new List<Lead>();
        checkleads =[Select Id From Lead Where LeadSource= 'Dreamforce' and Company = 'The
Inc'];
        System.assertEquals(200, checkleads.size(), 'Leads were not created');
    }
}

```

Apex Integration Services

- Apex REST Callouts

AnimalLocator.apxc

```
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.apxc

```
@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.apxc

```

@isTest
global class AnimalLocatorMock implements HttpCalloutMock {
    global HTTPResponse respond(HTTPRequest request) {
        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;
    }
}

```

- Apex SOAP Callouts

ParkLocator.apxc

```

public class ParkLocator {
    public static string[] country(string theCountry) {
        ParkService.ParksImplPort parkSvc = new ParkService.ParksImplPort();
        return parkSvc.byCountry(theCountry);
    }
}

```

ParkLocatorTest.apxc

```

@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);
    }
}

```

```
}
```

- Apex Web Services

AccountManager.apxc

```
@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;
    }
}
```

AccountManagerTest.apxc

```
@isTest
private class AccountManagerTest {

    private static testMethod void getAccountTest1() {
        Id recordId = createTestRecord();
        RestRequest request = new RestRequest();
        request.requestUri = 'https://na1.salesforce.com/services/apexrest/Accounts/'+ recordId
+ '/contacts' ;
        request.httpMethod = 'GET';
        RestContext.request = request;
        Account thisAccount = AccountManager.getAccount();
        System.assert(thisAccount != null);
        System.assertEquals('Test record', thisAccount.Name);
    }
}
```

```

static Id createTestRecord() {
    Account TestAcc = new Account(Name='Test record');
    insert TestAcc;
    Contact TestCon= new Contact(
        LastName='Test',
        AccountId = TestAcc.id);
    return TestAcc.Id;
}
}

```

Apex Specialist

MaintenanceRequest.apxt

```

trigger MaintenanceRequest on Case (before update, after update) {
    if (Trigger.isUpdate && Trigger.isAfter){
        MaintenanceRequestHelper.updateWorkOrders(Trigger.New, Trigger.OldMap);
    }
}

```

MaintenanceRequestHelper.apxc

```

public with sharing class MaintenanceRequestHelper {
    public static void updateWorkOrders(List<Case> updWorkOrders, Map<Id,Case>
nonUpdCaseMap) {
        Set<Id> validIds = new Set<Id>();
        For (Case c : updWorkOrders){
            if (nonUpdCaseMap.get(c.Id).Status != 'Closed' && c.Status == 'Closed'){
                if (c.Type == 'Repair' || c.Type == 'Routine Maintenance'){
                    validIds.add(c.Id);
                }
            }
        }
        if (!validIds.isEmpty()){

```

```

        Map<Id,Case> closedCases = new Map<Id,Case>([SELECT Id, Vehicle__c,
Equipment__c, Equipment__r.Maintenance_Cycle__c,
                                (SELECT Id,Equipment__c,Quantity__c FROM
Equipment_Maintenance_Items__r)
                                FROM Case WHERE Id IN :validIds]);
        Map<Id,Decimal> maintenanceCycles = new Map<ID,Decimal>();
        AggregateResult[] results = [SELECT Maintenance_Request__c,
                                MIN(Equipment__r.Maintenance_Cycle__c)cycle
                                FROM Equipment_Maintenance_Item__c
                                WHERE Maintenance_Request__c IN :ValidIds GROUP BY
Maintenance_Request__c];

        for (AggregateResult ar : results){
            maintenanceCycles.put((Id) ar.get('Maintenance_Request__c'), (Decimal)
ar.get('cycle'));
        }
        List<Case> newCases = new List<Case>();
        for(Case cc : closedCases.values()){
            Case nc = new Case (
                ParentId = cc.Id,
                Status = 'New',
                Subject = 'Routine Maintenance',
                Type = 'Routine Maintenance',
                Vehicle__c = cc.Vehicle__c,
                Equipment__c =cc.Equipment__c,
                Origin = 'Web',
                Date_Reported__c = Date.Today()
            );
            nc.Date_Due__c = Date.today().addDays((Integer) maintenanceCycles.get(cc.Id));
            newCases.add(nc);
        }
        insert newCases;
        List<Equipment_Maintenance_Item__c> clonedList = new
List<Equipment_Maintenance_Item__c>();
        for (Case nc : newCases){
            for (Equipment_Maintenance_Item__c clonedListItem :
closedCases.get(nc.ParentId).Equipment_Maintenance_Items__r){

```

```

        Equipment_Maintenance_Item__c item = clonedListItem.clone();
        item.Maintenance_Request__c = nc.Id;
        clonedList.add(item);
    }
}
insert clonedList;
}
}
}

```

WarehouseCalloutService.apxc

```

public with sharing class WarehouseCalloutService implements Queueable {
    private static final String WAREHOUSE_URL = 'https://th-superbadge-
apex.herokuapp.com/equipment';

```

```

    @future(callout=true)
    public static void runWarehouseEquipmentSync(){
        System.debug('go into runWarehouseEquipmentSync');
        Http http = new Http();
        HttpRequest request = new HttpRequest();

        request.setEndpoint(WAREHOUSE_URL);
        request.setMethod('GET');
        HttpResponse response = http.send(request);

        List<Product2> product2List = new List<Product2>();
        System.debug(response.getStatusCode());
        if (response.getStatusCode() == 200){
            List<Object> jsonResponse =
(List<Object>)JSON.deserializeUntyped(response.getBody());
            System.debug(response.getBody());
            for (Object jR : jsonResponse){
                Map<String,Object> mapJson = (Map<String,Object>)jR;
                Product2 product2 = new Product2();
                product2.Replacement_Part__c = (Boolean) mapJson.get('replacement');

```



```

        product2.Cost__c = (Integer) mapJson.get('cost');
        product2.Current_Inventory__c = (Double) mapJson.get('quantity');
        product2.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
        product2.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
        product2.Warehouse_SKU__c = (String) mapJson.get('sku');

        product2.Name = (String) mapJson.get('name');
        product2.ProductCode = (String) mapJson.get('_id');
        product2List.add(product2);
    }

    if (product2List.size() > 0){
        upsert product2List;
        System.debug('Your equipment was synced with the warehouse one');
    }
}

}

public static void execute (QueueableContext context){
    System.debug('start runWarehouseEquipmentSync');
    runWarehouseEquipmentSync();
    System.debug('end runWarehouseEquipmentSync');
}
}

```

WarehouseSyncSchedule.apxc

```

global with sharing class WarehouseSyncSchedule implements Schedulable {
    global void execute (SchedulableContext ctx){
        System.enqueueJob(new WarehouseCalloutService());
    }
}

```

MaintenanceRequestHelperTest.apxc

@isTest

public with sharing class MaintenanceRequestHelperTest {

private static Vehicle__c createVehicle(){

Vehicle__c vehicle = new Vehicle__C(name = 'Testing Vehicle');

return vehicle;

}

private static Product2 createEquipment(){

product2 equipment = new product2(name = 'Testing equipment',

lifespan_months__c = 10,

maintenance_cycle__c = 10,

replacement_part__c = true);

return equipment;

}

private static Case createMaintenanceRequest(id vehicleId, id equipmentId){

case cse = new case('Type='Repair',

Status='New',

Origin='Web',

Subject='Testing subject',

Equipment__c=equipmentId,

Vehicle__c=vehicleId);

return cse;

}

private static Equipment_Maintenance_Item__c createEquipmentMaintenanceItem(id equipmentId,id requestId){

Equipment_Maintenance_Item__c equipmentMaintenanceItem = new
Equipment_Maintenance_Item__c(

Equipment__c = equipmentId,

Maintenance_Request__c = requestId);

return equipmentMaintenanceItem;

}

@isTest

private static void testPositive(){

Vehicle__c vehicle = createVehicle();

```
insert vehicle;  
id vehicleId = vehicle.Id;
```

```
Product2 equipment = createEquipment();  
insert equipment;  
id equipmentId = equipment.Id;
```

```
case createdCase = createMaintenanceRequest(vehicleId,equipmentId);  
insert createdCase;
```

```
Equipment_Maintenance_Item__c equipmentMaintenanceItem =  
createEquipmentMaintenanceItem(equipmentId,createdCase.id);  
insert equipmentMaintenanceItem;
```

```
test.startTest();  
createdCase.status = 'Closed';  
update createdCase;  
test.stopTest();
```

```
Case newCase = [Select id,  
                  subject,  
                  type,  
                  Equipment__c,  
                  Date_Reported__c,  
                  Vehicle__c,  
                  Date_Due__c  
                from case  
                where status ='New'];
```

```
Equipment_Maintenance_Item__c workPart = [select id  
                                           from Equipment_Maintenance_Item__c  
                                           where Maintenance_Request__c =:newCase.Id];  
list<case> allCase = [select id from case];  
system.assert(allCase.size() == 2);  
  
system.assert(newCase != null);  
system.assert(newCase.Subject != null);
```

```

system.assertEquals(newCase.Type, 'Routine Maintenance');
SYSTEM.assertEquals(newCase.Equipment__c, equipmentId);
SYSTEM.assertEquals(newCase.Vehicle__c, vehicleId);
SYSTEM.assertEquals(newCase.Date_Reported__c, system.today());
}

```

@isTest

```

private static void testNegative(){
    Vehicle__C vehicle = createVehicle();
    insert vehicle;
    id vehicleId = vehicle.Id;

    product2 equipment = createEquipment();
    insert equipment;
    id equipmentId = equipment.Id;

    case createdCase = createMaintenanceRequest(vehicleId,equipmentId);
    insert createdCase;

    Equipment_Maintenance_Item__c workP =
createEquipmentMaintenanceItem(equipmentId, createdCase.Id);
    insert workP;

    test.startTest();
    createdCase.Status = 'Working';
    update createdCase;
    test.stopTest();

    list<case> allCase = [select id from case];

    Equipment_Maintenance_Item__c equipmentMaintenanceItem = [select id
                                                                from Equipment_Maintenance_Item__c
                                                                where Maintenance_Request__c = :createdCase.Id];

    system.assert(equipmentMaintenanceItem != null);
    system.assert(allCase.size() == 1);
}

```

```

@isTest
private static void testBulk(){
    list<Vehicle__C> vehicleList = new list<Vehicle__C>();
    list<Product2> equipmentList = new list<Product2>();
    list<Equipment_Maintenance_Item__c> equipmentMaintenanceItemList = new
list<Equipment_Maintenance_Item__c>();
    list<case> caseList = new list<case>();
    list<id> oldCaseIds = new list<id>();

    for(integer i = 0; i < 300; i++){
        vehicleList.add(createVehicle());
        equipmentList.add(createEquipment());
    }
    insert vehicleList;
    insert equipmentList;

    for(integer i = 0; i < 300; i++){
        caseList.add(createMaintenanceRequest(vehicleList.get(i).id, equipmentList.get(i).id));
    }
    insert caseList;

    for(integer i = 0; i < 300; i++){

equipmentMaintenanceItemList.add(createEquipmentMaintenanceItem(equipmentList.get(i).id,
caseList.get(i).id));
    }
    insert equipmentMaintenanceItemList;

    test.startTest();
    for(case cs : caseList){
        cs.Status = 'Closed';
        oldCaseIds.add(cs.Id);
    }
    update caseList;
    test.stopTest();
}

```

```

list<case> newCase = [select id
                      from case
                      where status ='New'];

list<Equipment_Maintenance_Item__c> workParts = [select id
                                                  from Equipment_Maintenance_Item__c
                                                  where Maintenance_Request__c in: oldCaseIds];

system.assert(newCase.size() == 300);

list<case> allCase = [select id from case];
system.assert(allCase.size() == 600);
}
}

```

WarehouseCalloutServiceTest.apxc

```

@IsTest
private class WarehouseCalloutServiceTest {
    @isTest
    static void testWarehouseCallout() {
        test.startTest();
        test.setMock(HttpCalloutMock.class, new WarehouseCalloutServiceMock());
        WarehouseCalloutService.execute(null);
        test.stopTest();

        List<Product2> product2List = new List<Product2>();
        product2List = [SELECT ProductCode FROM Product2];

        System.assertEquals(3, product2List.size());
        System.assertEquals('55d66226726b611100aaf741', product2List.get(0).ProductCode);
        System.assertEquals('55d66226726b611100aaf742', product2List.get(1).ProductCode);
        System.assertEquals('55d66226726b611100aaf743', product2List.get(2).ProductCode);
    }
}

```

WarehouseCalloutServiceMock.apxc

@isTest

global class WarehouseCalloutServiceMock implements HttpCalloutMock {

global static HttpResponse respond(HttpRequest request) {

HttpResponse response = new HttpResponse();

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

response.setBody(['{"_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"}]]');

response.setStatusCode(200);

return response;

}

}

WarehouseSyncScheduleTest.apxc

@isTest

public with sharing class WarehouseSyncScheduleTest {

@isTest static void test() {

String scheduleTime = '00 00 00 * * ? *';

Test.startTest();

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

String jobId = System.schedule('Warehouse Time to Schedule to test', scheduleTime, new WarehouseSyncSchedule());

CronTrigger c = [SELECT State FROM CronTrigger WHERE Id =: jobId];

System.assertEquals('WAITING', String.valueOf(c.State), 'JobId does not match');

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