https://trailblazer.me/id/adosi4

1. Superbadge

Apex Specialist

Use integration and business logic to push your Apex coding skills to the limit.
https://trailhead.salesforce.com/en/content/learn/superbadges/superbadge_apex

Concepts Tested in This Superbadge

- Apex Triggers
- Asynchronous Apex
- Apex Integration
- Apex Testing

CHALLENGE 1: 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

                    validIds.add(c.Id);


                }
            }
        }

        if (!validIds.isEmpty()){
            List<Case> newCases = new List<Case>();
            Map<Id,Case> closedCasesM = 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'));
    }

      for(Case cc : closedCasesM.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()

        );

        If (maintenanceCycles.containskey(cc.Id)){
          nc.Date_Due__c = Date.today().addDays((Integer) maintenanceCycles.get(cc.Id));
        } else {
          nc.Date_Due__c = Date.today().addDays((Integer)
cc.Equipment__r.maintenance_Cycle__c);
                }

                newCases.add(nc);
            }

            insert newCases;

            List<Equipment_Maintenance_Item__c> clonedWPs = new List<Equipment_Maintenance_Item__c>();
            for (Case nc : newCases){
                for (Equipment_Maintenance_Item__c wp : closedCasesM.get(nc.ParentId).Equipment_Maintenance_Items__r){
                    Equipment_Maintenance_Item__c wpClone = wp.clone();
                    wpClone.Maintenance_Request__c = nc.Id;
                    ClonedWPs.add(wpClone);

                }
            }
            insert ClonedWPs;
        }
    }
}
```

MaitenanceRequest.apxt:-

```
trigger MaintenanceRequest on Case (before update, after update) {

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

        MaintenanceRequestHelper.updateWorkOrders(Trigger.New, Trigger.OldMap);

    }

}
```

- After saving the code go back the How We Roll Maintenance ,
- click on Maintenance Requests -> click on 2nd case -> click Details -> change the type Repair to Routine Maintenance -> select Origin = Phone -> Vehicle = select Teardrop Camper , save it.
- Feed -> Close Case = save it..

CHALLENGE 2: Implement an Apex class (called WarehouseCalloutService) that implements the queueable interface and makes a callout to the external service used for warehouse inventory management. This service receives updated values in the external system and updates the related records in Salesforce. Before checking this section, **enqueue the job at least once to confirm that it's working as expected**.

Solution:

- Setup -> Search in quick find box -> click Remote Site Settings -> Name = Warehouse URL , Remote Site URL = https://th-superbadge-apex.herokuapp.com , make sure active is selected.
- Go to the developer console use below code

WarehouseCalloutService.apxc :-

```
public with sharing class WarehouseCalloutService implements Queueable {
    private static final String WAREHOUSE_URL = 'https://th-


    //class that makes a REST callout to an external warehouse system to get a list of equipment that needs to be updated.
    //The callout’s JSON response returns the equipment records that you upsert in Salesforce.

    @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);

        List<Product2> warehouseEq = new List<Product2>();

        if (response.getStatusCode() == 200){
            List<Object> jsonResponse = (List<Object>)JSON.deserializeUntyped(response.getBody());
            System.debug(response.getBody());

            //class maps the following fields: replacement part (always true), cost, current inventory, lifespan, maintenance cycle, and warehouse SKU
            //warehouse SKU will be external ID for identifying which equipment records to update within Salesforce
            for (Object eq : jsonResponse){
                Map<String,Object> mapJson = (Map<String,Object>)eq;
                Product2 myEq = new Product2();
                myEq.Replacement_Part__c = (Boolean) mapJson.get('replacement');
                myEq.Name = (String) mapJson.get('name');
                myEq.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
                myEq.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
                myEq.Cost__c = (Integer) mapJson.get('cost');
                myEq.Warehouse_SKU__c = (String) mapJson.get('sku');
                myEq.Current_Inventory__c = (Double) mapJson.get('quantity');
                myEq.ProductCode = (String) mapJson.get('_id');
                warehouseEq.add(myEq);
            }

            if (warehouseEq.size() > 0){
                upsert warehouseEq;
                System.debug('Your equipment was synced with the

            }
        }
    }

    public static void execute (QueueableContext context){
        runWarehouseEquipmentSync();
    }

}
```

After saving the code open execute anonymous window (CTRl+E) and run this method ,

```
System.enqueueJob(new WarehouseCalloutService());
```

CHALLENGE 3-Schedule synchronization

Build scheduling logic that executes your callout and runs your code daily. The name of the schedulable class should be **WarehouseSyncSchedule**, and the scheduled job should be named **WarehouseSyncScheduleJob.**

Solution

- Go to the developer console use below code :

WarehouseSyncShedule.apxc :-

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

Save it , after that...

- Go to setup -> Seacrh in Quick find box -> Apex Classes -> click Schedule Apex and Jb Name = WarehouseSyncScheduleJob , Apex Class = WarehouseSyncSchedule

CHALLENGE 4-Test automation logic

Build tests for all cases (positive, negative, and bulk) specified in the business requirements by using a class named **MaintenanceRequestHelperTest**. You must have 100% test coverage to pass this section and assert values to prove that your logic is working as expected. Choose **Run All Tests** in the Developer Console at least once before attempting to submit this section. Be patient as it may take 10-20 seconds to process the challenge check.

Solution:

- Go to the developer console use below code :

```
MaintenanceRequestHelperTest.apxc :-


@istest
public with sharing class MaintenanceRequestHelperTest {

    private static final string STATUS_NEW = 'New';
    private static final string WORKING = 'Working';
    private static final string CLOSED = 'Closed';
    private static final string REPAIR = 'Repair';
    private static final string REQUEST_ORIGIN = 'Web';
    private static final string REQUEST_TYPE = 'Routine

    private static final string REQUEST_SUBJECT = 'Testing


    PRIVATE STATIC Vehicle__c createVehicle(){
        Vehicle__c Vehicle = new Vehicle__C(name = 'SuperTruck');
        return Vehicle;
    }

    PRIVATE STATIC Product2 createEq(){
        product2 equipment = new product2(name = 'SuperEquipment',
                                         lifespan_months__C = 10,
                                         maintenance_cycle__C = 10,
                                         replacement_part__c = true);
        return equipment;
    }

    PRIVATE STATIC Case createMaintenanceRequest(id vehicleId, id equipmentId){
        case cs = new case(Type=REPAIR,
                          Status=STATUS_NEW,
                          Origin=REQUEST_ORIGIN,
                          Subject=REQUEST_SUBJECT,
                          Equipment__c=equipmentId,
                          Vehicle__c=vehicleId);
        return cs;
    }

    PRIVATE STATIC Equipment_Maintenance_Item__c createWorkPart(id equipmentId,id requestId){
        Equipment_Maintenance_Item__c wp = new Equipment_Maintenance_Item__c(Equipment__c = equipmentId,
                                                                            Maintenance_Request__c = requestId);
        return wp;
    }


    @istest
    private static void testMaintenanceRequestPositive(){
        Vehicle__c vehicle = createVehicle();
        insert vehicle;
        id vehicleId = vehicle.Id;

        Product2 equipment = createEq();
        insert equipment;
        id equipmentId = equipment.Id;

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

        Equipment_Maintenance_Item__c workP = createWorkPart(equipmentId,somethingToUpdate.id);
        insert workP;

        test.startTest();
        somethingToUpdate.status = CLOSED;
        update somethingToUpdate;
        test.stopTest();

        Case newReq = [Select id, subject, type, Equipment__c, Date_Reported__c, Vehicle__c, Date_Due__c
                      from case
                      where status =:STATUS_NEW];

        Equipment_Maintenance_Item__c workPart = [select id
                                                 from Equipment_Maintenance_Item__c
                                                 where Maintenance_Request__c =:newReq.Id];

        system.assert(workPart != null);
        system.assert(newReq.Subject != null);
        system.assertEquals(newReq.Type, REQUEST_TYPE);
        SYSTEM.assertEquals(newReq.Equipment__c, equipmentId);
        SYSTEM.assertEquals(newReq.Vehicle__c, vehicleId);
        SYSTEM.assertEquals(newReq.Date_Reported__c, system.today());
    }

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

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

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

        Equipment_Maintenance_Item__c workP = createWorkPart(equipmentId, emptyReq.Id);
        insert workP;

        test.startTest();
        emptyReq.Status = WORKING;
        update emptyReq;
        test.stopTest();

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

        Equipment_Maintenance_Item__c workPart = [select id
                                                  from Equipment_Maintenance_Item__c
                                                  where Maintenance_Request__c = :emptyReq.Id];

        system.assert(workPart != null);
        system.assert(allRequest.size() == 1);
    }

    @istest
    private static void testMaintenanceRequestBulk(){
        list<Vehicle__C> vehicleList = new list<Vehicle__C>();
        list<Product2> equipmentList = new list<Product2>();
        list<Equipment_Maintenance_Item__c> workPartList = new list<Equipment_Maintenance_Item__c>();
        list<case> requestList = new list<case>();
        list<id> oldRequestIds = new list<id>();

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

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

        for(integer i = 0; i < 300; i++){
            workPartList.add(createWorkPart(equipmentList.get(i).id, requestList.get(i).id));
        }
        insert workPartList;

        test.startTest();
        for(case req : requestList){
            req.Status = CLOSED;
            oldRequestIds.add(req.Id);
        }
        update requestList;
        test.stopTest();

        list<case> allRequests = [select id
                                 from case
                                 where status =: STATUS_NEW];

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

        system.assert(allRequests.size() == 300);
    }
}
```

```
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

                    validIds.add(c.Id);


                }
            }
        }

        if (!validIds.isEmpty()){
            List<Case> newCases = new List<Case>();
            Map<Id,Case> closedCasesM = 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'));
        }

            for(Case cc : closedCasesM.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()

                );

                If (maintenanceCycles.containskey(cc.Id)){
                    nc.Date_Due__c = Date.today().addDays((Integer) maintenanceCycles.get(cc.Id));
                }

                newCases.add(nc);
            }

           insert newCases;

           List<Equipment_Maintenance_Item__c> clonedWPs = new List<Equipment_Maintenance_Item__c>();
           for (Case nc : newCases){
                for (Equipment_Maintenance_Item__c wp : closedCasesM.get(nc.ParentId).Equipment_Maintenance_Items__r){
                    Equipment_Maintenance_Item__c wpClone = wp.clone();
                    wpClone.Maintenance_Request__c = nc.Id;
```

```
                        ClonedWPs.add(wpClone);

                   }
              }
              insert ClonedWPs;
         }
    }
}
MaintenanceRequest.apxt :-


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

<u>CHALLENGE 5-Test callout logic</u>

Build tests for your callout using the included class for the callout mock (**WarehouseCalloutServiceMock**) and callout test class (**WarehouseCalloutServiceTest**) in the package. You must have 100% test coverage to pass this challenge and assert values to prove that your logic is working as expected.

<u>Solution:</u>

- Go to the developer console use below code

```
WarehouseCalloutService.apxc :-


public with sharing class WarehouseCalloutService {

    private static final String WAREHOUSE_URL = 'https://th-

    //@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);


        List<Product2> warehouseEq = new List<Product2>();

        if (response.getStatusCode() == 200){
            List<Object> jsonResponse = (List<Object>)JSON.deserializeUntyped(response.getBody());
            System.debug(response.getBody());

            for (Object eq : jsonResponse){
                Map<String,Object> mapJson = (Map<String,Object>)eq;
                Product2 myEq = new Product2();
                myEq.Replacement_Part__c = (Boolean) mapJson.get('replacement');
                myEq.Name = (String) mapJson.get('name');
                myEq.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
                myEq.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
                myEq.Cost__c = (Decimal) mapJson.get('lifespan');
                myEq.Warehouse_SKU__c = (String) mapJson.get('sku');
                myEq.Current_Inventory__c = (Double) mapJson.get('quantity');
                warehouseEq.add(myEq);
            }

            if (warehouseEq.size() > 0){
                upsert warehouseEq;
                System.debug('Your equipment was synced with the

                System.debug(warehouseEq);
            }

        }
    }
}


WarehouseCalloutServiceTest.apxc :-


@isTest

private class WarehouseCalloutServiceTest {
    @isTest
    static void testWareHouseCallout(){
        Test.startTest();
        // implement mock callout test here
        Test.setMock(HTTPCalloutMock.class, new WarehouseCalloutServiceMock());
        WarehouseCalloutService.runWarehouseEquipmentSync();
        Test.stopTest();
        System.assertEquals(1, [SELECT count() FROM Product2]);
    }
}


WarehouseCalloutServiceMock.apxc :-


@isTest
global class WarehouseCalloutServiceMock implements HttpCalloutMock {
    // implement http mock callout
    global static HttpResponse respond(HttpRequest request){

        System.assertEquals('https://th-superbadge-
));
```

```
        System.assertEquals('GET', request.getMethod());

        // Create a fake response
        HttpResponse response = new HttpResponse();
        response.setHeader('Content-Type', 'application/json');
response.setBody('[{"_id":"55d66226726b611100aaf741","replacement



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

CHALLENGE 6-Test scheduling logic

Build unit tests for the class **WarehouseSyncSchedule** in a class named **WarehouseSyncScheduleTest**. You must have 100% test coverage to pass this challenge and assert values to prove that your logic is working as expected.

- Go to the developer console use below code

```
WarehouseSyncSchedule.apxc :-

global class WarehouseSyncSchedule implements Schedulable {
    global void execute(SchedulableContext ctx) {

        WarehouseCalloutService.runWarehouseEquipmentSync();
    }
}

WarehouseSyncScheduleTest.apxc :-

@isTest
public class WarehouseSyncScheduleTest {

    @isTest static void WarehousescheduleTest(){
        String scheduleTime = '00 00 01 * * ?';
        Test.startTest();
        Test.setMock(HttpCalloutMock.class, new WarehouseCalloutServiceMock());
        String jobID=System.schedule('Warehouse Time To Schedule

        Test.stopTest();
        //Contains schedule information for a scheduled job. CronTrigger is similar to a cron job on UNIX systems.
        // This object is available in API version 17.0 and later.
        CronTrigger a=[SELECT Id FROM CronTrigger where NextFireTime > today];
        System.assertEquals(jobID, a.Id,'Schedule ');


    }
}
```

2. Superbadge

Process Automation Specialist

Showcase your mastery of business process automation without writing a line of code.
https://trailhead.salesforce.com/content/learn/superbadges/superbadge_process_automation?trailmix_creator_id=trailblazerconnect&trailmix_slug=salesforce-developer-catalyst

CHALLENGE 1:

Validation rule on Lead

Search for Validation rule and create a new under Leads

Rule Name: Anything

Error Condition Formula :

```
OR(AND(LEN(State) > 2,
NOT(CONTAINS("AL:AK:AZ:AR:CA:CO:CT:DE:DC:FL:GA:HI:ID:IL:IN:IA:KS:KY:LA:ME:MD:M
A:MI:MN:MS:MO:MT:NE:NV:NH:NJ:NM:NY:NC:ND:OH:OK:OR:PA:RI:SC:SD:TN:TX:UT:VT:V
A:WA:WV:WI:WY", State )) ), NOT(OR(Country ="US",Country ="USA",Country ="United
States", ISBLANK(Country))))
```

Create two Queues:

Search in quick box and select lead as object and create the below queues.

Queue Name: Rainbow Sales ; **AND** Assembly System Sales

Assignment Rule:

Search from quick box and create a new.

Rule Name: Anything

Create two rule entries and fill like below.

Challenge 2: Automate Accounts

Create 4 Roll Up Summary fields as below:

Field 1: Label: **Number of deals**

Summary Type: **COUNT**

Summarized Object: **Opportunity**

Filter Criteria: **None**

Field 2: Label: **Number of won deals**

Summary Type: **COUNT**

Summarized Object: **Opportunity**

Filter Criteria: **Stage EQUALS Closed Won**

Field 3: Label: **Last won deal date**

Summary Type: **MAX**

Field to Aggregate: **Opportunity: Close Date**

Summarized Object: **Opportunity**

Filter Criteria: **Stage EQUALS Closed Won**

Field 4: Label: **Amount of won deals**
Summary Type: **SUM**
Field to Aggregate: **Opportunity: Amount**
Summarized Object: **Opportunity**
Filter Criteria: **Stage EQUALS Closed Won**
And 2 Formula Fields with below:
Field 5: Label: **Deal win percent**
Return Type: **Percent**
Decimal Places: 2
Formula: ***(Number_of_won_deals__c / Number_of_deals__c)***
Field 6: Label: **Call for Service**
Return Type: **Text**
Formula: ***IF(DATE(YEAR(Last_won_deal_date__c)+2 , MONTH(Last_won_deal_date__c),DAY(Last_won_deal_date__c)) <= TODAY(), "Yes", "No")***
Create 2 validation rules as below
Validation Rule 1 : **Rule Name :** US_Address (*Anything*)
Error Condition Formula :

```
OR(AND(LEN(BillingState) > 2,
NOT(CONTAINS("AL:AK:AZ:AR:CA:CO:CT:DE:DC:FL:GA:HI:ID:IL:IN:IA:KS:KY:LA:ME:MD:M
A:MI:MN:MS:MO:MT:NE:NV:NH:NJ:NM:NY:NC:ND:OH:OK:OR:PA:RI:SC:SD:TN:TX:UT:VT:V
A:WA:WV:WI:WY", BillingState ))
),AND(LEN(ShippingState) > 2,
NOT(CONTAINS("AL:AK:AZ:AR:CA:CO:CT:DE:DC:FL:GA:HI:ID:IL:IN:IA:KS:KY:LA:ME:MD:M
A:MI:MN:MS:MO:MT:NE:NV:NH:NJ:NM:NY:NC:ND:OH:OK:OR:PA:RI:SC:SD:TN:TX:UT:VT:V
A:WA:WV:WI:WY", ShippingState))
),NOT(OR(BillingCountry ="US",BillingCountry ="USA",BillingCountry ="United States",
ISBLANK(BillingCountry))),
NOT(OR(ShippingCountry ="US",ShippingCountry ="USA",ShippingCountry ="United
States", ISBLANK(ShippingCountry))))
```

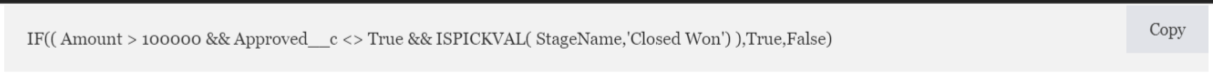
Copy
Error Message : You can not save a new account unless the shipping and billing state fields are valid US state abbreviations, and the country field is either blank or US, USA, or United States.
Error Location : Top Of Page
VALIDATION RULE 2 : **Rule Name :** Name Change
Error Condition Formula :
Error Message : You can't change the Account name for "Customer – Direct" or

“Customer – Channel”
Error Location : Account Name
Sometimes when validation is right and it doesn’t work rightly just delete and recreate it from scratch.

Challenge 3: **Create Robot Setup Object**

Create a custom object **Robot Setup** with a Master-Detail relationship to the **opportunity** include Autonumber the record name, starting with 0 using name format: ROBOT SETUP-{0000}.
Use the following field names.
Date, Date__c : Date type
Notes, Notes__c : Text type
Day of the Week, Day_of_the_Week__c : Number

Challenge 4: **Create Sales Process and Validate Opportunities**



```
IF(( Amount > 100000 && Approved__c <> True && ISPICKVAL( StageName,'Closed Won') ),True,False)
```

Copy

CHALLENGE 5:

Node 1 Criteria.: Opportunity.Account Type = customer and Opportunity.account id not equal to null
Node 2 Criteria.: Opportunity.Account Type = Prospect, Opportunity stage = prospecting and Opportunity.account id not equal to null
Node 3 Criteria.: Opportunity Stage = Negotiation/Review and Opportunity Amount > 100,000
Node 4 Criteria.: Opportunity Stage = Closed Won

CHALLENGE 5:
Add 5 elements , Save and Activate the flow.
Now search **Lightning App Builder**
Add **New page**: Select Record Type
Label: Product_Quick_Search
Object: Opportunity
Pick any template

And Drag and drop Flows from Left palette, select the flow we made and Save!

Challenge 7: **Automate Setups**

This is probably the most simple step to be stuck on for days!
Let’s solve it to claim our badge super fast!
Search for the field “Day of the Week” on robot object and change the field type from Number to formula field of return type: text and use the below formula.
If you don’t find the formula field in the edit option of the field, you can delete and recreate the field with the same name as well.
Formula being :

```
Case ( WEEKDAY( Date__c ),
1,"Sunday",
2,"Monday",
3,"Tuesday",
4,"Wednesday",
5,"Thursday",
6,"Friday",
7,"Saturday",
Text(WEEKDay(Date__c)))
```

Go to the Process we created in step 5. Clone this Process. Go to action on the last node where we set up robo record. Change formula of date field from **[Opportunity].CloseDate + 180..to**.. below formula.

```
CASE(MOD([Opportunity].CloseDate + 180 - DATE(1900, 1,
7),7), 0, [Opportunity].CloseDate + 181, 6,
[Opportunity].CloseDate + 182, [Opportunity].CloseDate +
180)
```

DONE :)
COMPLETED BOTH BADGES.