

# Apex Specialist Superbadge

## Synchronize Salesforce data with an external system

- 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-superbadge-  
apex.herokuapp.com/equipment';
```

//Write a 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(){  
    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());

//class maps the following fields:
//warehouse SKU will be external ID for identifying which equipment records to update
within Salesforce
for (Object jR : jsonResponse){
    Map<String,Object> mapJson = (Map<String,Object>)jR;
    Product2 product2 = new Product2();
    //replacement part (always true),
    product2.Replacement_Part__c = (Boolean) mapJson.get('replacement');
    //cost
    product2.Cost__c = (Integer) mapJson.get('cost');
    //current inventory
    product2.Current_Inventory__c = (Double) mapJson.get('quantity');
    //lifespan
    product2.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
    //maintenance cycle
    product2.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
    //warehouse SKU
    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');
}
}

```

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

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