

APEX SPECIALIST SUPERBADGE

Synchronize Salesforce data with an external system

WarehouseCalloutService

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

//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 warehouse one');
    }
}

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