Automated Record Creation

1.App Launcher ->

- Search How We Roll Maintenance ->
- Click on Maintenance Requests ->
- Click on first case ->
- Click Details ->
- Change the type Repair to Routine Maintenance ->
- Select Origin = Phone ->
- Vehicle = Select Teardrop Camper
- Save

2.Feed -> Close Case

- Save

3.Go to the Object Manager ->

- Maintenance Request ->
- Field & Relationships ->
- New ->Lookup Relationship ->
- Next ->
- Select Equipment ->
- Next ->
- Field Label = Equipment ->
- Next -> Next -> Next ->
- Save

4.Now go to the developer console use below code

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);
```

```apex
            }
          }
        }

    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

- Feed -> Close Case

- Save

Check Challenge