# Multi-Selection Field Documentation

This document explains the implementation of a multi-selection control that allows selecting multiple values from a lookup field in a form class.

// Public method to define a multi-selection control that can be used in the form class  
// and called in the onModified event handler  
public SysLookupMultiSelectCtrl multiselectCtrl;  
  
// Override lookup method to allow selecting one or more lines from the lookup field  
public void lookup()   
{  
 // Create a query object  
 Query query = new Query();  
 QueryBuildDataSource CS\_GuiltDS;  
   
 // Provide the data source  
 CS\_GuiltDS = query.addDataSource(tableNum(CS\_Guilt));  
   
 // Adding fields to group by to select unique values  
 CS\_GuiltDS.addSortField(fieldNum(CS\_Guilt, Guilt));  
 CS\_GuiltDS.orderMode(OrderMode::GroupBy);  
   
 // Select the fields to display in the lookup  
 CS\_GuiltDS.addSelectionField(fieldNum(CS\_Guilt, Guilt));  
   
 // Provide the constructed query to the multi-select lookup control  
 multiSelectCtrl = SysLookupMultiSelectCtrl::constructWithQuery(this.formRun(), this, query);  
   
 // The values selected in the control are set in the multi-select control field  
 // this.parmMultiselectCtl(multiselectCtrl);  
 // CS\_GuiltMultiCtrl.set(CS\_GuiltMultiCtrl.getSelectedFieldValues());  
}  
  
// Method to return the multi-selection control value so it can be used in the onModified event handler  
public SysLookupMultiSelectCtrl parmMultiselectCtl(SysLookupMultiSelectCtrl \_multiselectCtrl = multiselectCtrl)  
{  
 multiselectCtrl = \_multiselectCtrl;  
 return multiselectCtrl;  
}  
  
// onModified event handler to insert multi-select data into the control  
[FormControlEventHandler(formControlStr(CS\_PossessionMainProcess, Gulity\_Guilt), FormControlEventType::Modified)]  
public static void Gulity\_Guilt\_OnModified(FormControl sender, FormControlEventArgs e)   
{  
 FormRun formRun;  
 SysLookupMultiSelectCtrl multiselectCtrl;  
   
 // Get the form run instance  
 formRun = sender.formRun();  
   
 // Retrieve the multi-selection control  
 multiselectCtrl = formRun.parmMultiselectCtl();  
   
 // Get the current record from the data source  
 CS\_PossessionGulty cs\_possessionGulty = formRun.dataSource(FormDataSourceStr(CS\_PossessionMainProcess, CS\_PossessionGulty)).cursor() as CS\_PossessionGulty;  
   
 // Store the selected values as a semicolon-separated string  
 cs\_possessionGulty.Guilt = con2Str(multiselectCtrl.getSelectedFieldValues(), ';');  
}