

Apex sharing example | Trigger to validate if users have access to that record and to give access to the user when record is created using Apex Sharing | Salesforce Security

January 28, 2020



You want to validate that the recruiter and hiring manager listed on the job have access to the record. The following trigger grants the recruiter and hiring manager access when the job record is created. This example requires a custom object called **Job**, with two lookup fields associated with User records called **Hiring_Manager** and **Recruiter**. Also, the Job custom object should have two sharing reasons added called Hiring_Manager and Recruiter. *This post is taken from Salesforce Developer Guide*

```
trigger JobApexSharing on Job__c (after insert) {

    if(trigger.isInsert){
        // Create a new list of sharing objects for Job
        List<Job__Share> jobShrs  = new List<Job__Share>();

        // Declare variables for recruiting and hiring manager sharing
        Job__Share recruiterShr;
        Job__Share hmShr;

        for(Job__c job : trigger.new){
            // Instantiate the sharing objects
            recruiterShr = new Job__Share();
            hmShr = new Job__Share();

            // Set the ID of record being shared
            recruiterShr.ParentId = job.Id;
            hmShr.ParentId = job.Id;

            // Set the ID of user or group being granted access
            recruiterShr.UserOrGroupId = job.Recruiter__c;
            hmShr.UserOrGroupId = job.Hiring_Manager__c;

            // Set the access level
            recruiterShr.AccessLevel = 'edit';
            hmShr.AccessLevel = 'read';

            // Set the Apex sharing reason for hiring manager and recruiter
            recruiterShr.RowCause = Schema.Job__Share.RowCause.Recruiter__c;
            hmShr.RowCause = Schema.Job__Share.RowCause.Hiring_Manager__c;
```

```
// Add objects to list for insert
jobShrs.add(recruiterShr);
jobShrs.add(hmShr);
}

// Insert sharing records and capture save result
// The false parameter allows for partial processing if multiple records are
// into the operation
Database.SaveResult[] lsr = Database.insert(jobShrs,false);

// Create counter
Integer i=0;

// Process the save results
for(Database.SaveResult sr : lsr){
    if(!sr.isSuccess()){
        // Get the first save result error
        Database.Error err = sr.getErrors()[0];

        // Check if the error is related to a trivial access level
        // Access levels equal or more permissive than the object's default
        // access level are not allowed.
        // These sharing records are not required and thus an insert exception
        // acceptable.
        if(!(err.getStatusCode() == StatusCode.FIELD_FILTER_VALIDATION_EXCEPTION
            && err.getMessage().contains('AccessL
        // Throw an error when the error is not related to trivial access
        trigger.newMap.get(jobShrs[i].ParentId).
        addError(
            'Unable to grant sharing access due to following exception: '
            + err.getMessage());
    }
}
```

```
    }  
    i++;  
  }  
}
```

